

BIO

T

833



Tonight down here in Linden Town I watch
There's a beautiful full moon rising above

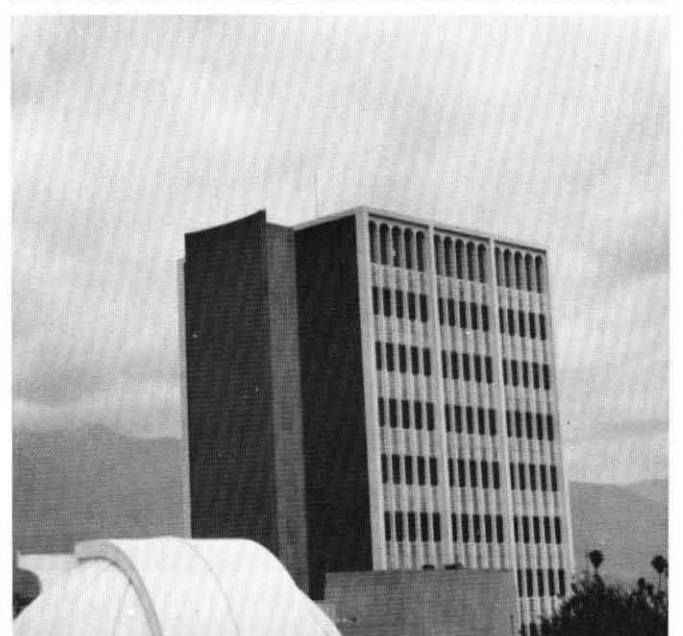
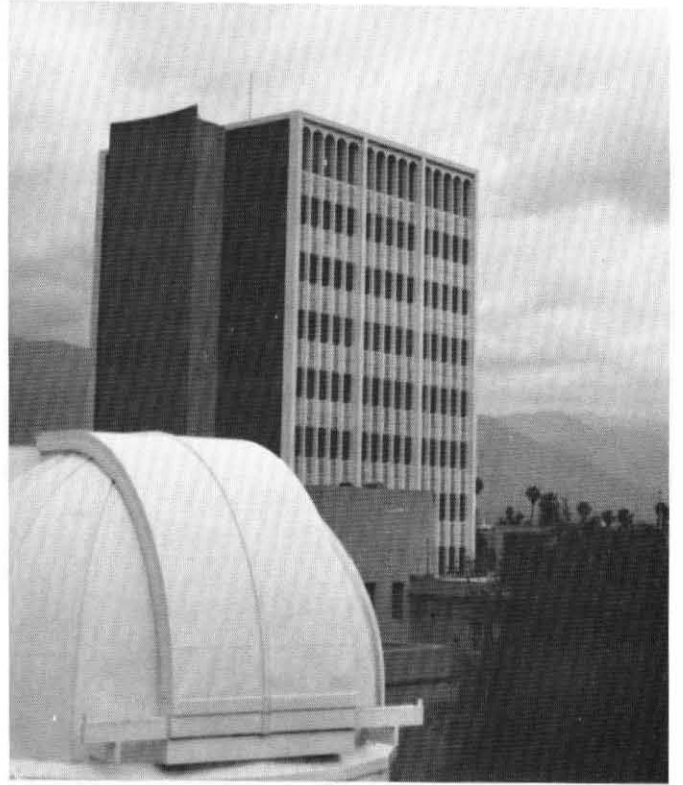


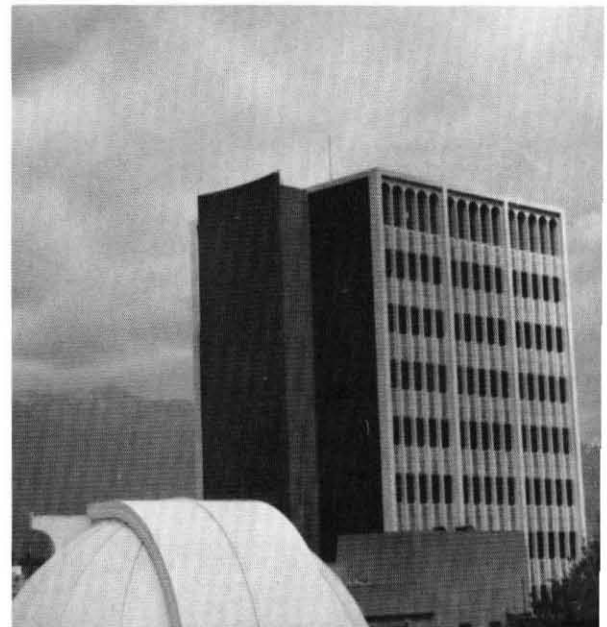
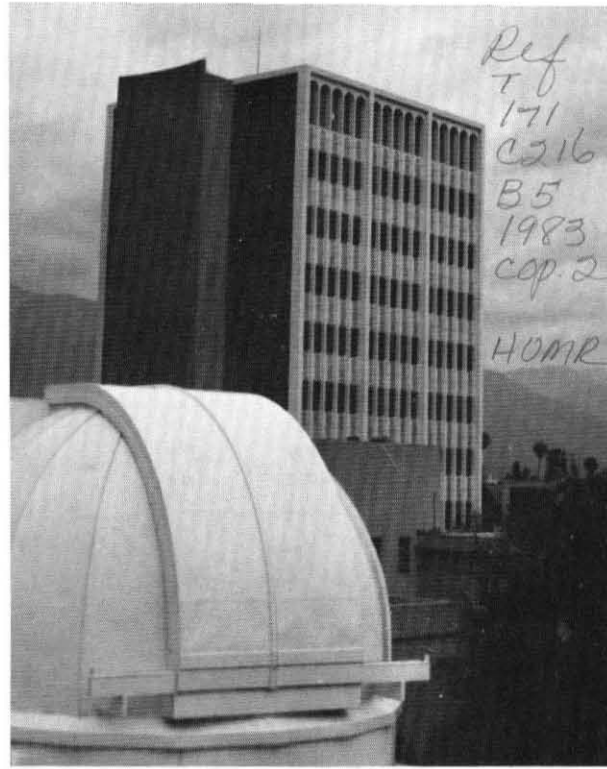
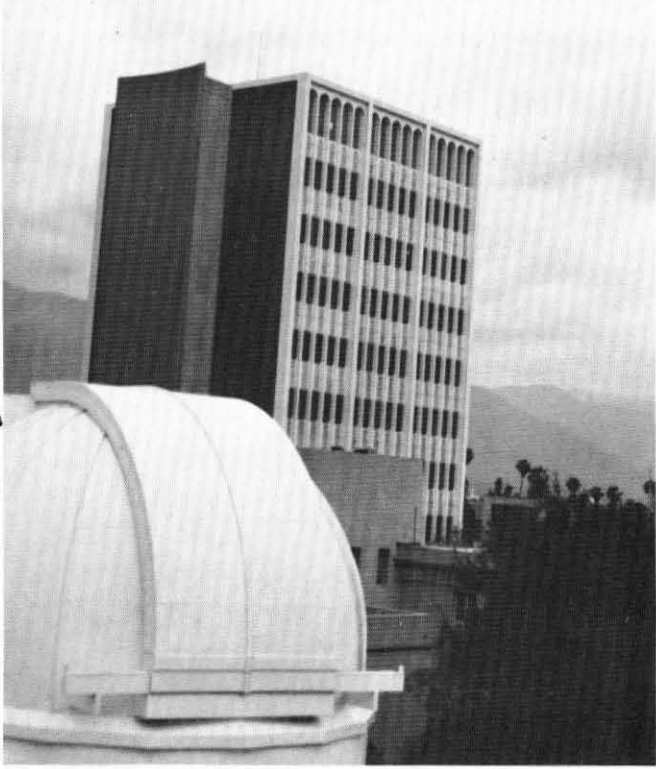
the cars rushin' by home from the mill
the Mansion on the Hill. -Bruce Springsteen

I tip my hat to the new constitution,
Take a bow for the new revolution,
Smile and grin at the change all around,
Pick up my guitar and play
(Just like yesterday),
Then I'll get on my knees and pray,
We don't get fooled again.

-Peter Townshend







The Big T 1983*

*-911

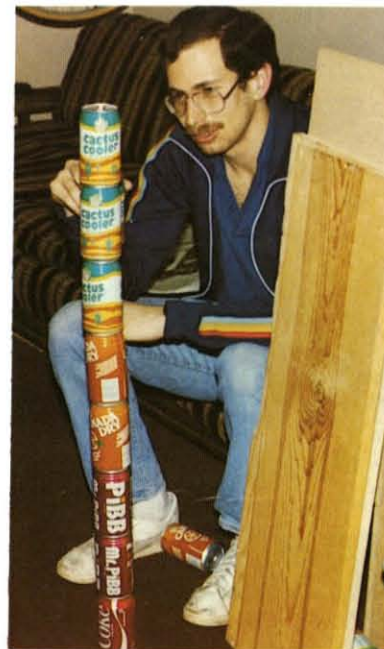


**Roll down the window,
Put down the top
Crank up the Beach Boys,
Baby, don't let the music stop**





**We're gonna ride it till
We can't ride it no more
From Ruddock to Dabney**





From the West Side...

...to the East Side



**Everybody's very happy
'Cause the sun is shining all the time
Looks like another perfect day**

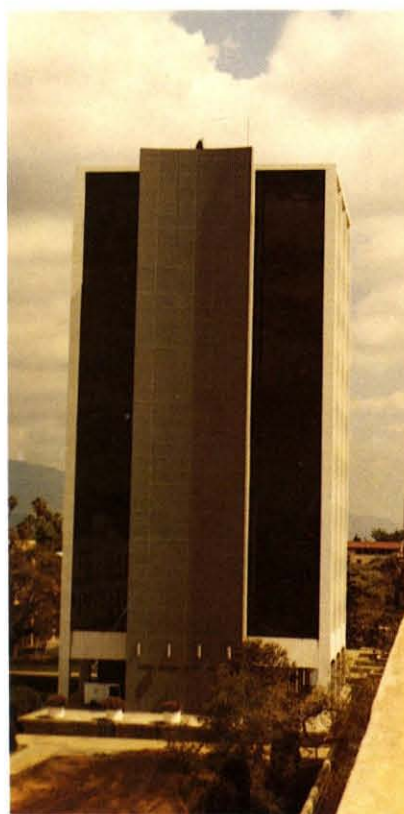
**I love Caltech (We love it!)
I love Caltech (We love it!)**

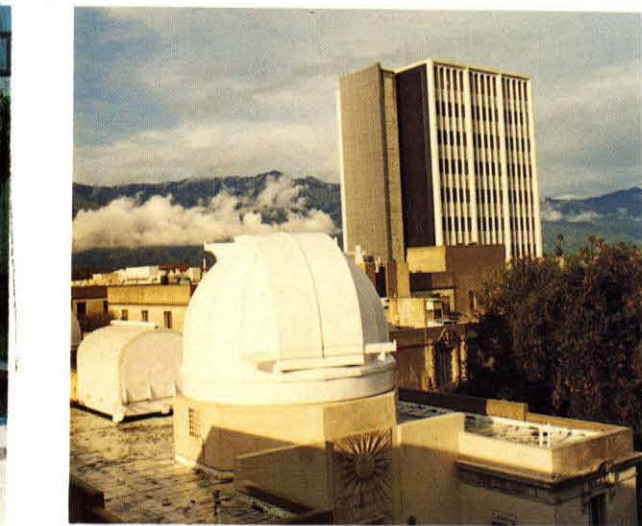
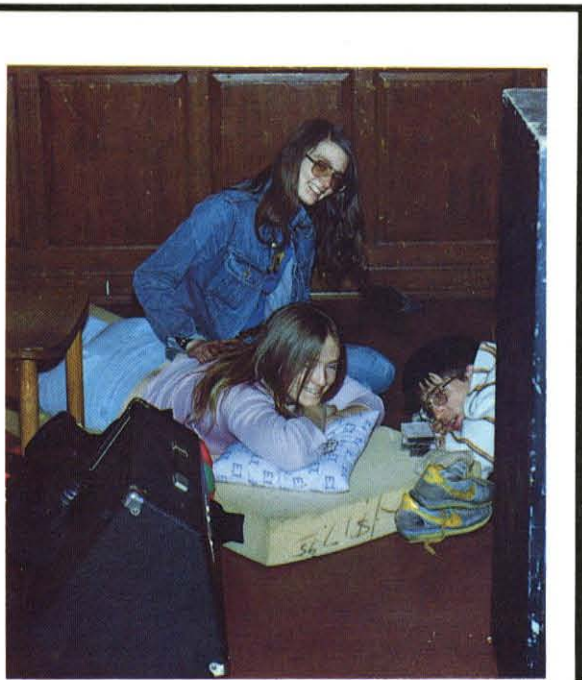


**Look at those mountains,
look at those trees
Look at that bum over there, man
He's down on his knees**



Look at these women
There ain't nothin'
like 'em nowhere



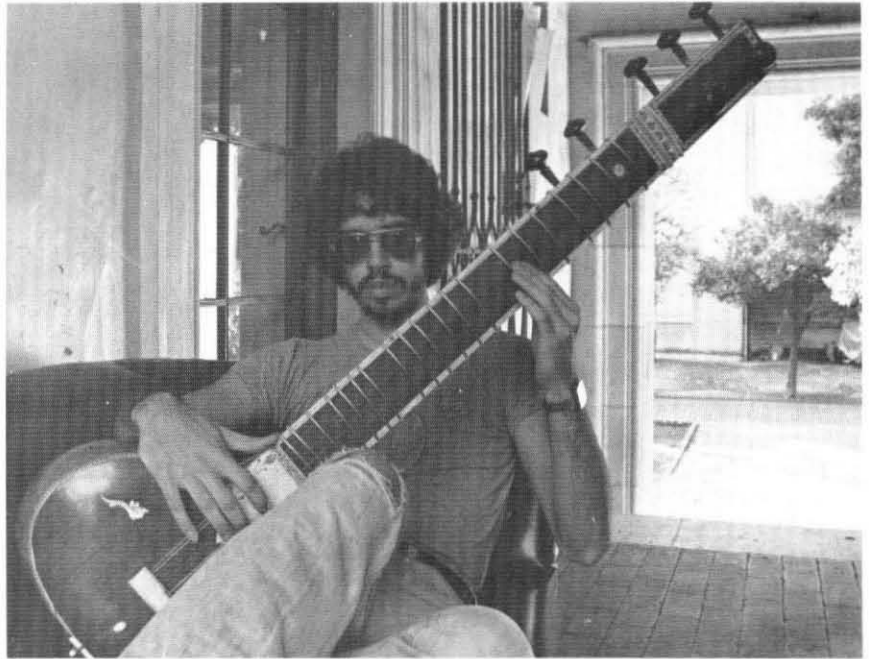


Music



(We love it!)





Frosh Camp

(We love it!)



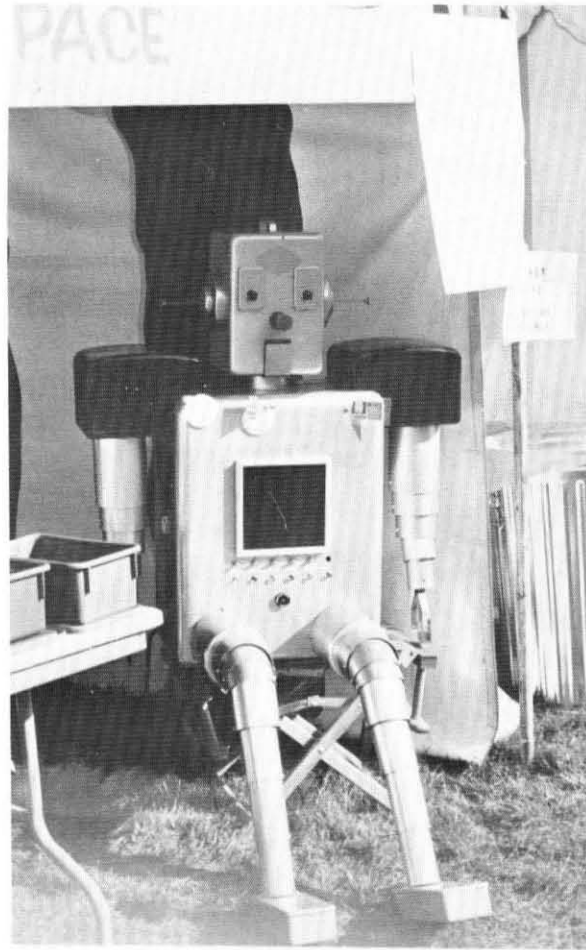


$$\frac{226}{41} = 5.52$$



The Circus

(We love it!)

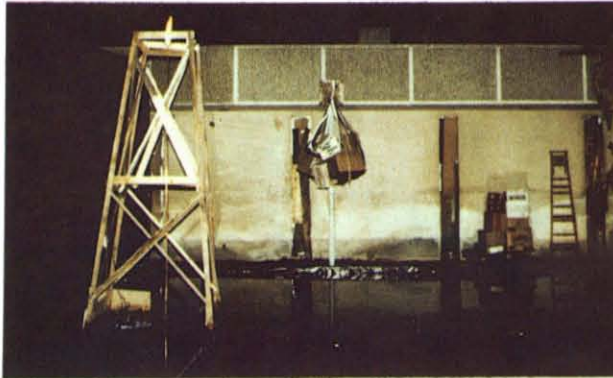


Interhouse

(We love it, we love it!)



I love Caltech
I love Caltech



(Apologies to
Randy Newman)





PARTY

THREE ~~SUBJECT~~ NOTEBOOK
120 SHEETS/COLLEGE & MARGIN

11x8½ Three Insertable Tab Index Dividers

Made especially for Western College Bookstore Association



33-787

Made in U.S. by National Blank Book Co., Inc., Holyoke, Massachusetts 01040

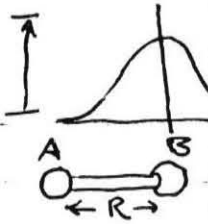
Little known fact



Daracula could change himself into a pig at will!

The electronic-vibrational-rotational-translation-translation-spectra

Energy



Electric

depends on electronic distribution

$$E_{el} = \langle \Psi_{el} | H_{el} | \Psi_{el} \rangle$$

15000 - 50000 cm^{-1}

100-500 cm^{-1} harmonic OSC



parabola
 $E_{vib} = h\nu_n(v + \frac{1}{2})$
 different for diff. electronic states.

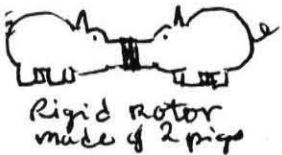
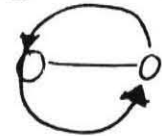
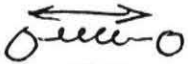
micro Roter $\approx 0.1 - 100 \text{ cm}^{-1}$



distance R, reduced mass $\mu = \frac{1}{\frac{1}{M_A} + \frac{1}{M_B}}$

$$E_J = \frac{h^2}{2\mu R^2} J(J+1) = B_J J(J+1)$$

clearly called rotational constant



Rigid rotor made of 2 pigs

$B_{00}(\text{Cl}_2) = 0.2348$

	B_{00}/cm	R_0/R
Cl_2	0.2348	1.988
CO	1.9314	1.1282



for given quantum state $n'' v'' J'' \leftarrow$ "mean n is ground state
 $n' v' J' \leftarrow$ "mean n is excited state

$$E_{nvJ} = E_n + (v + \frac{1}{2})\nu_n h + B_n J(J+1)$$

$$\Delta E_{\text{transition}} = \Delta E_{n''n'}(\text{elec}) + h\nu_n'(v' + \frac{1}{2}) - h\nu_n''(v'' + \frac{1}{2}) + B_{n'}J'(J'+1) - B_{n''}J''(J''+1)$$

ro-vibronic transition



$$(n'', v'', J'') \rightarrow (n', v', J')$$



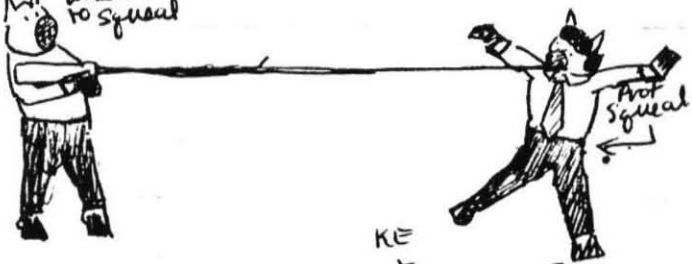
if you let these couple, nothing works & problem is suitable for 108

CH21
23 Feb

see Cotton ~~ro~~-vibronic transitions
Born Oppenheimer approx.

ch21 students demonstrating new use of LASER to squeal

$\Psi(\text{el, vib, rot, trans})$ impossible to solve



$\Psi = \Psi_{\text{el}} \chi_{\text{nuc}} \Rightarrow H = H_{\text{el}} + H_{\text{vib}}$
 eigen value - $E = E_{\text{el}} + E_{\text{vib}}$

$$H(r;V) = (T_A + T_B + \frac{e^2 z_A z_B}{R_{AB}}) + \sum_j \frac{-\hbar^2}{2m} \nabla_j^2 - \sum_j \frac{z_A e^2}{r_{Aj}} - \sum_j \frac{z_B e^2}{r_{Bj}} + \sum_{j>k} \frac{e^2}{r_{jk}}$$

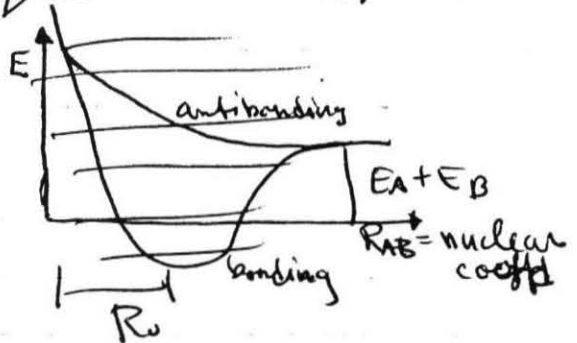


$\Psi_{\text{total}} = \sum_n \underbrace{P_n(r_{el}, R_{AB})}_{\text{basis set}} \chi_n(\text{nuc})$

BO approx $P_n(r;R) \chi_n(R)$
 assume nucleus move slowly enough can assume motionless



Assume electrons move like nuclei fixed (same as assuming sep. tween elec states large comp to vibrational spacing); nuclei are heavier than electrons, \therefore KE coupling diff. elec states can be neglected with vph potential energy surface



demonstration of population inversion using prof squeal

Separation of vib, rot, trans

and now a word from our sponsor:



LASERS!

EVENTS OF - 91i

<i>Frosh Camp</i>	<i>Mho 9-12</i>
<i>Pickle Family Circus</i>	<i>Mho 18</i>
<i>CLAGS Posters burned</i>	<i>Week of Weber 7</i>
<i>CLAGS Dance</i>	<i>Weber 21</i>
<i>Freeze Week</i>	<i>Weber 23-27</i>
<i>Interhouse</i>	<i>Tesla 10</i>
<i>Bomb Scare</i>	<i>Tesla 18</i>
<i>Sing Noel</i>	<i>Henry 4-5</i>
<i>Dedication of Braun</i>	<i>Henry 14</i>
<i>Fleming-Dabney Orange Wars</i>	<i>Weber 9 on</i>
<i>ASCIT Elections</i>	<i>Hertz 26</i>
<i>Moose Issue of The California Tech</i>	<i>Newton 7</i>
<i>Watson Lecture:</i>	
<i>The Mechanical Universe</i>	<i>Newton 19</i>
<i>Brigadoon opens</i>	<i>Pascal 25</i>
<i>Noland Leadership awarded</i>	<i>Joule 2</i>
<i>Darbs Kidnapping</i>	<i>Joule 4</i>
<i>Sports Day</i>	<i>Joule 19</i>
<i>Jam Room Fundraiser</i>	<i>Joule 21</i>
<i>Ditch Day</i>	<i>Joule 23</i>
<i>Sunney's Goodbye Party</i>	<i>Watt 3</i>
<i>KELROF</i>	<i>Watt 4-5</i>
<i>Commencement</i>	<i>Watt 24</i>

Event of -91i: Mechanical Universe

Frosh Camp



And they wandered in
From the city of Angels
Without a dime
Wearing coats that shine
Both red and green colors
From their sunny island

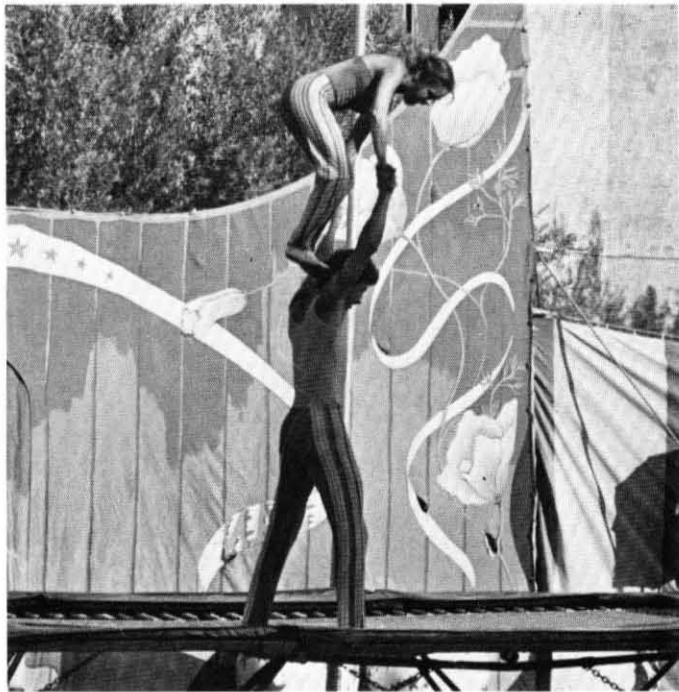


From their boats of iron
They looked upon
The promised land
Where surely life was sweet
On the rising tide to Catalina
They ride into the sea
See the glory of the Royal Scam

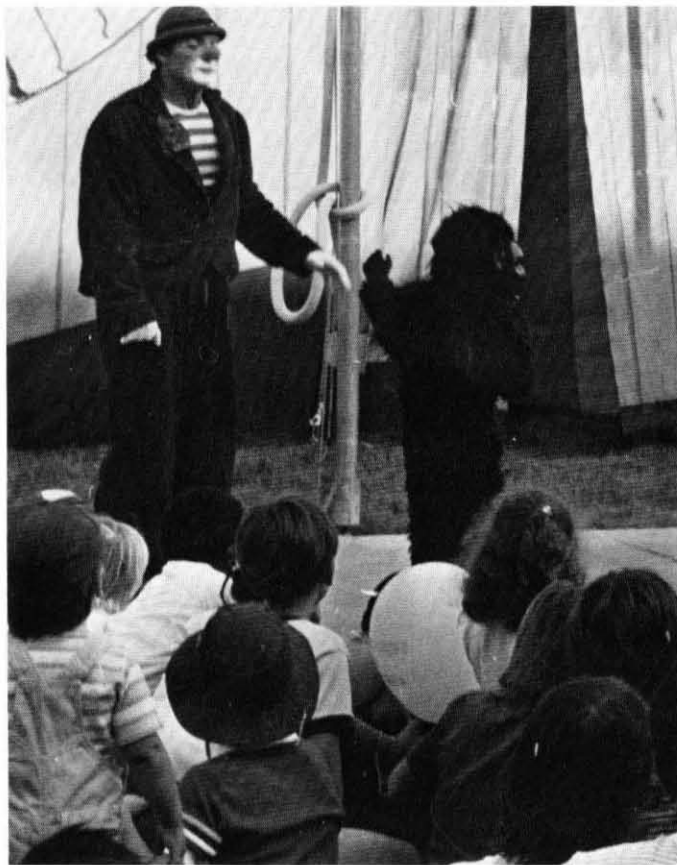


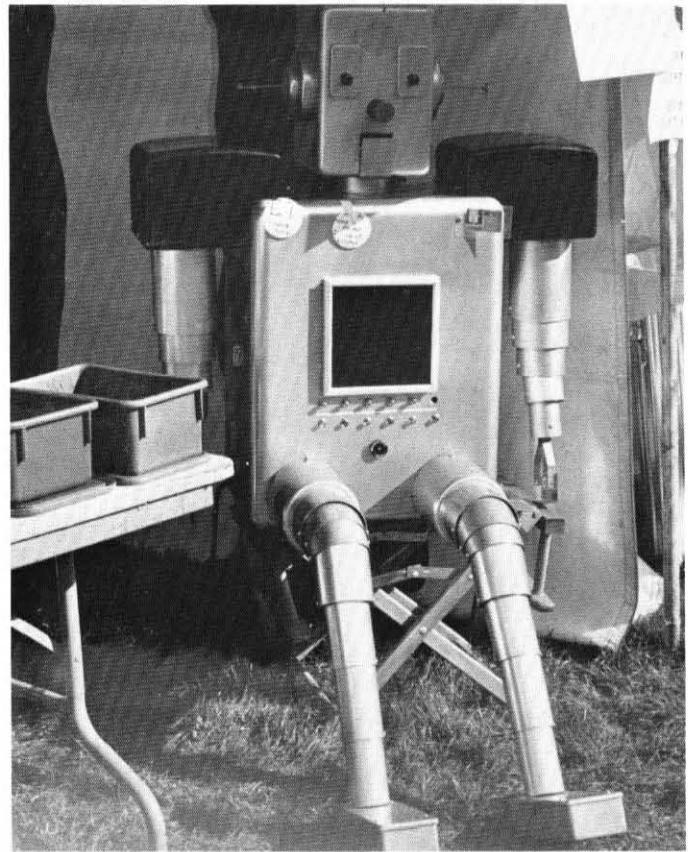
(Apologies to
Steely Dan)



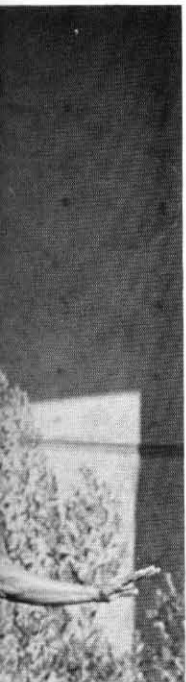


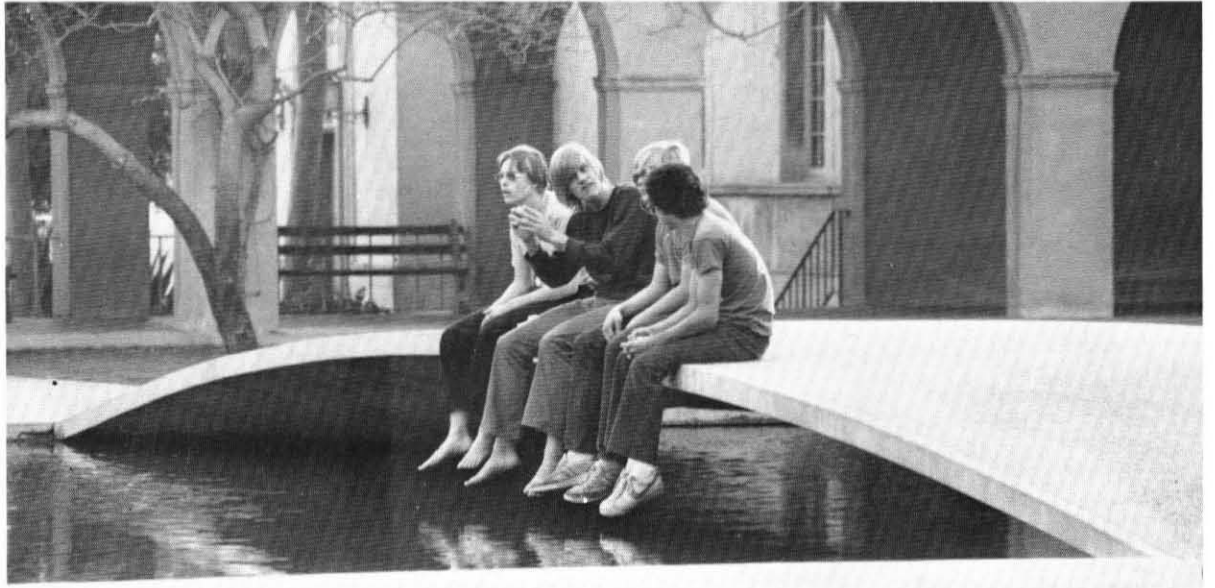
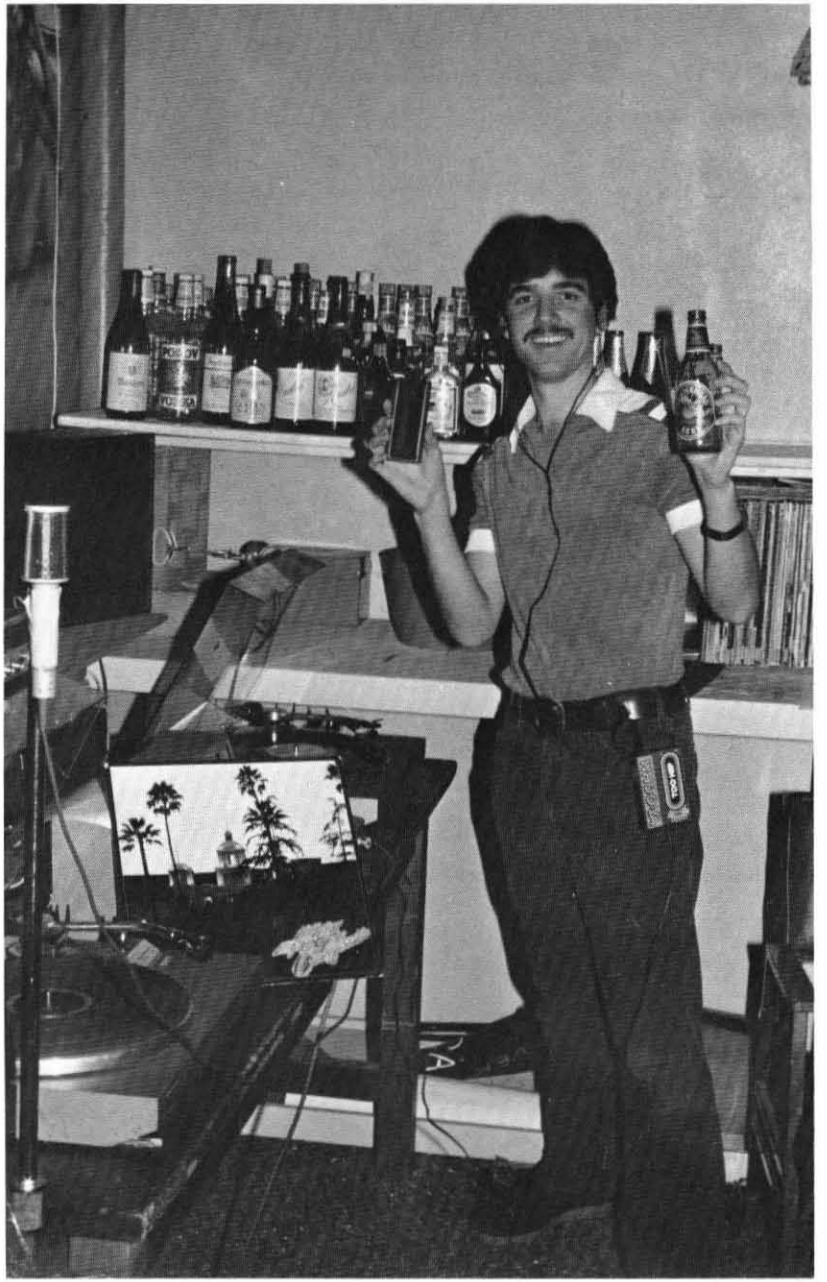
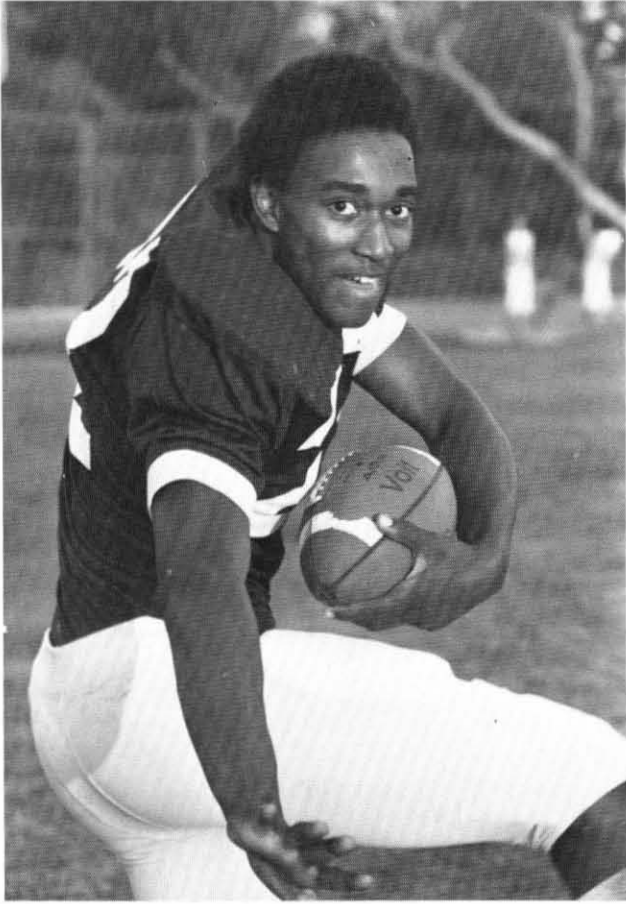
Pickle Fa

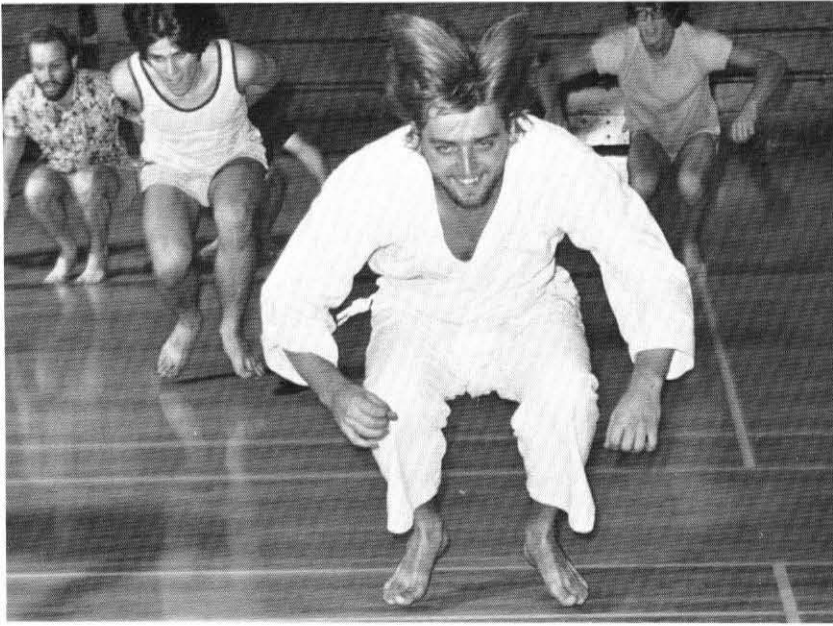




Family Circus

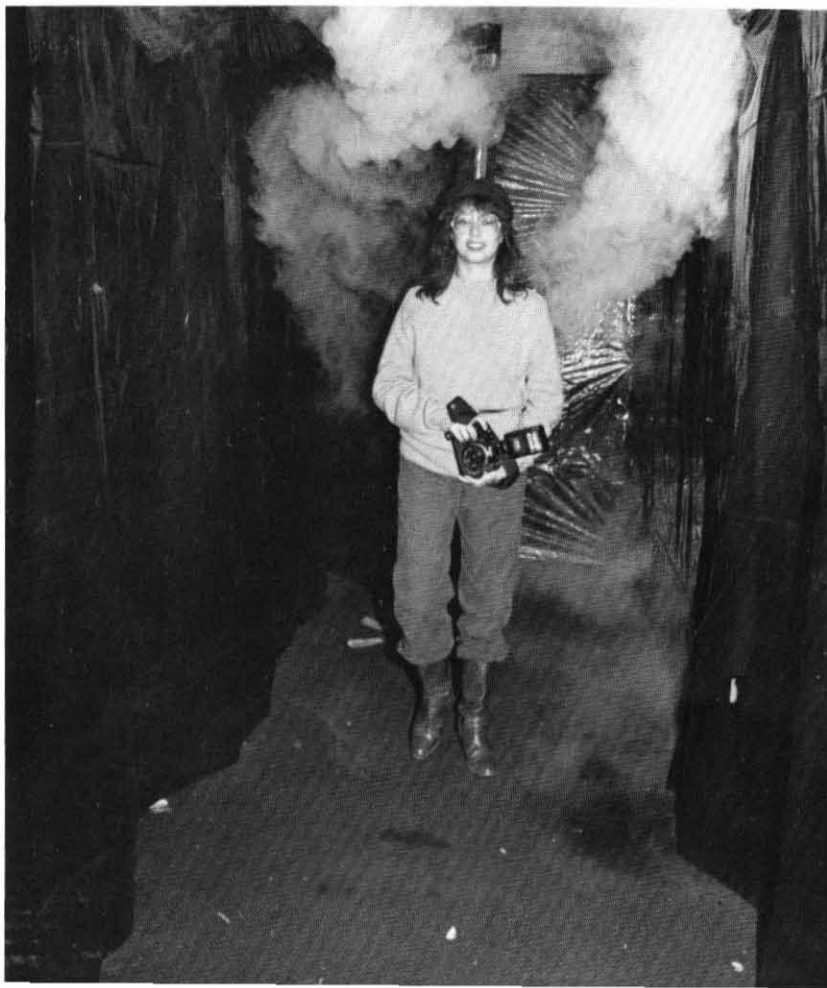
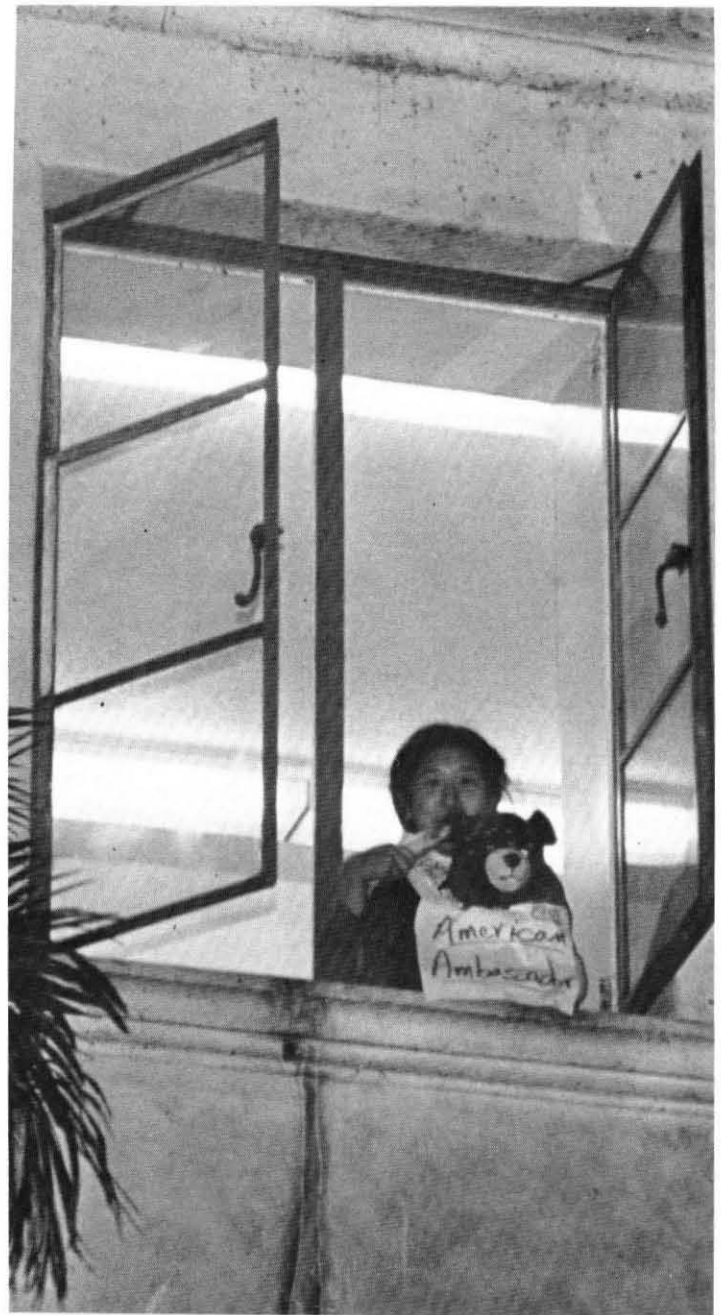


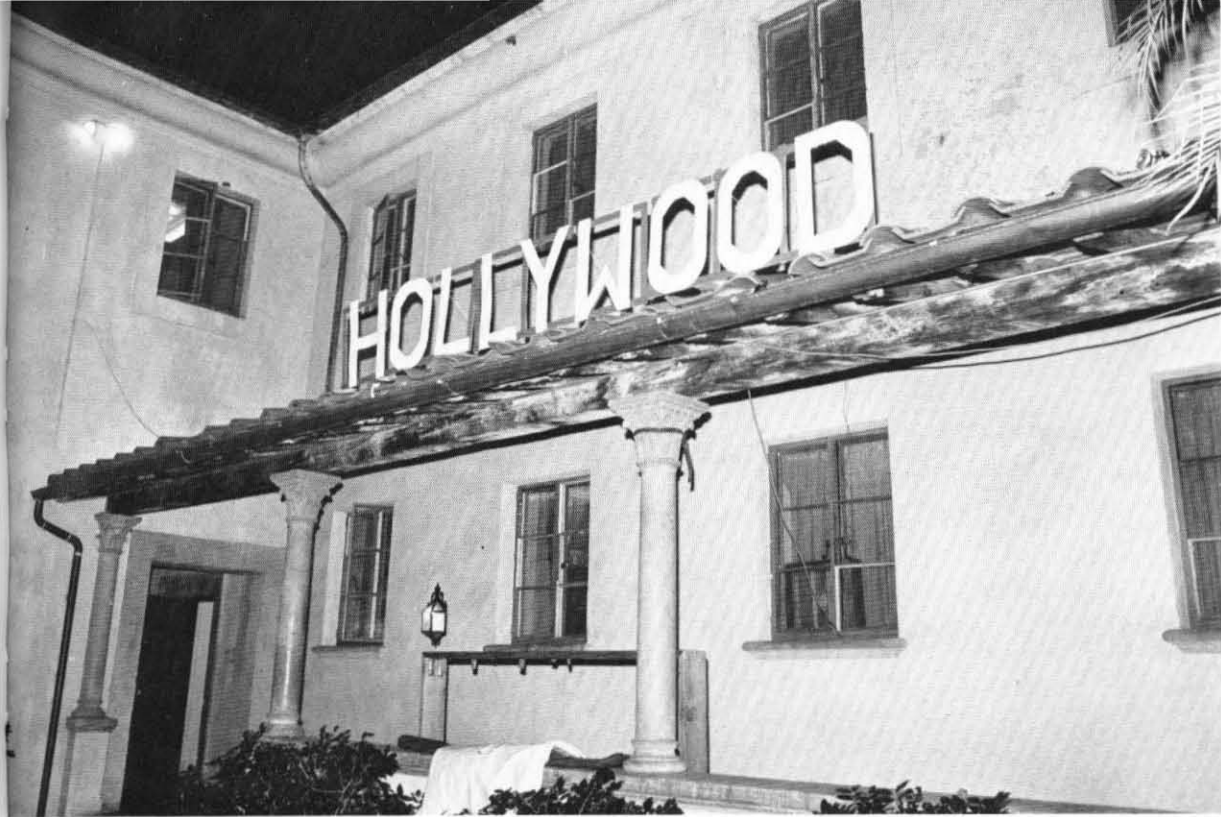




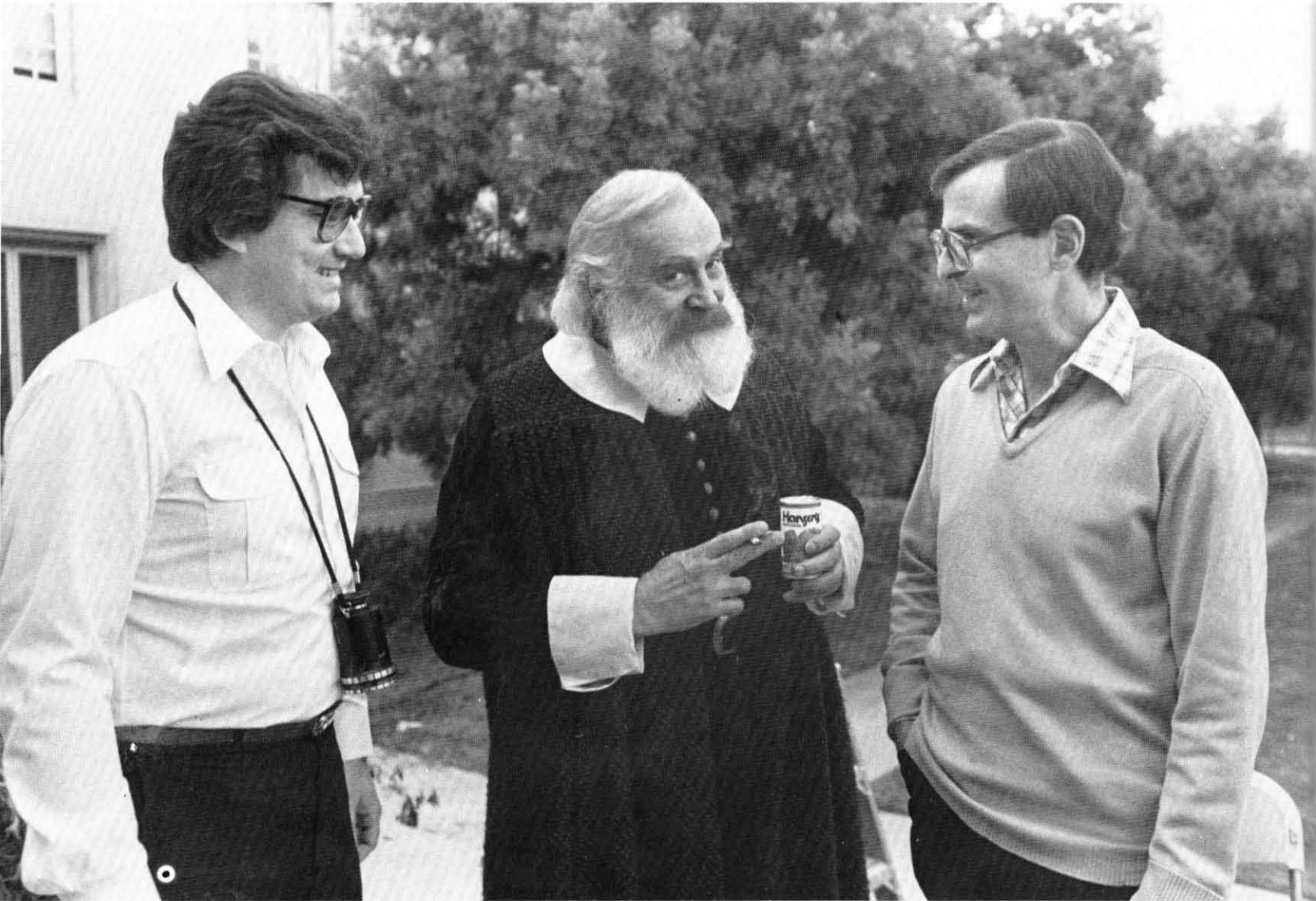
Without going out of my door
I can know things on earth
Without looking out of my window
I can know the ways of heaven
The farther one travels
The less one really knows
—George Harrison

INTERHOUSE





The Mechanical Universe



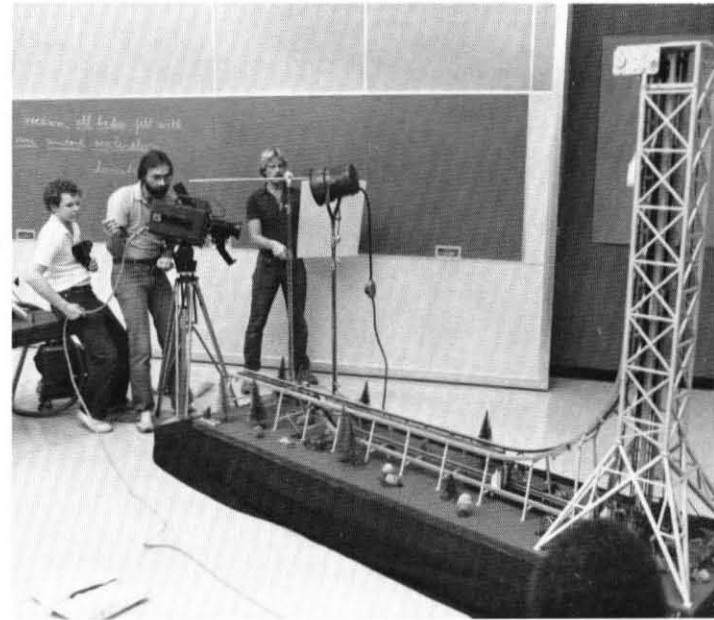
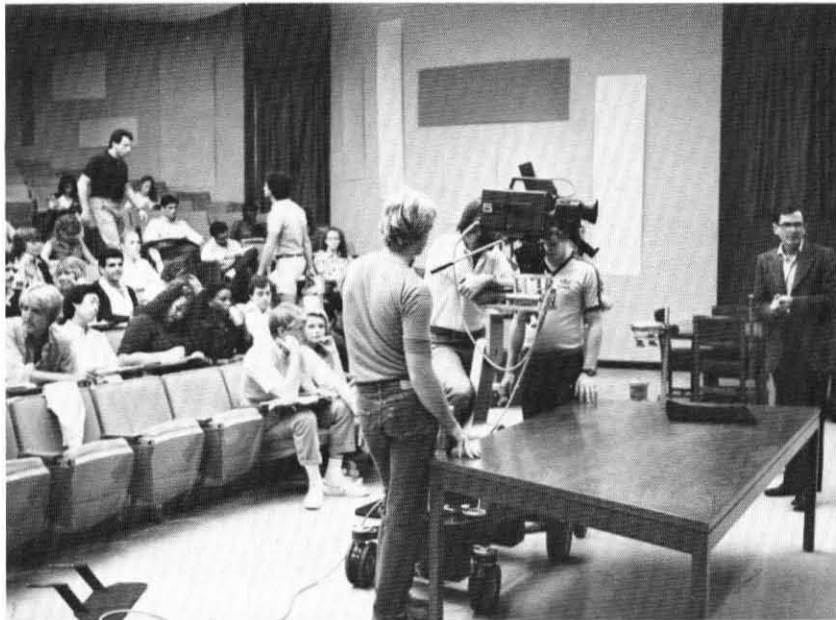
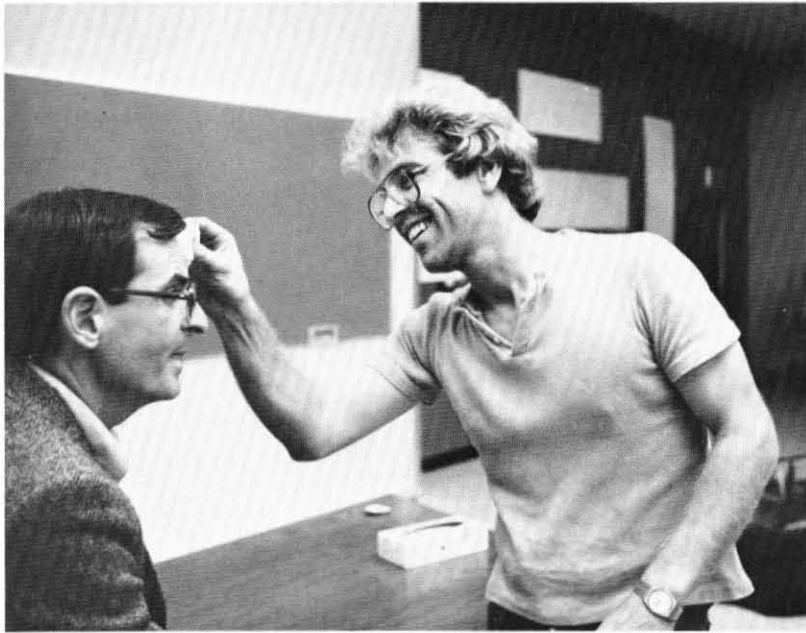
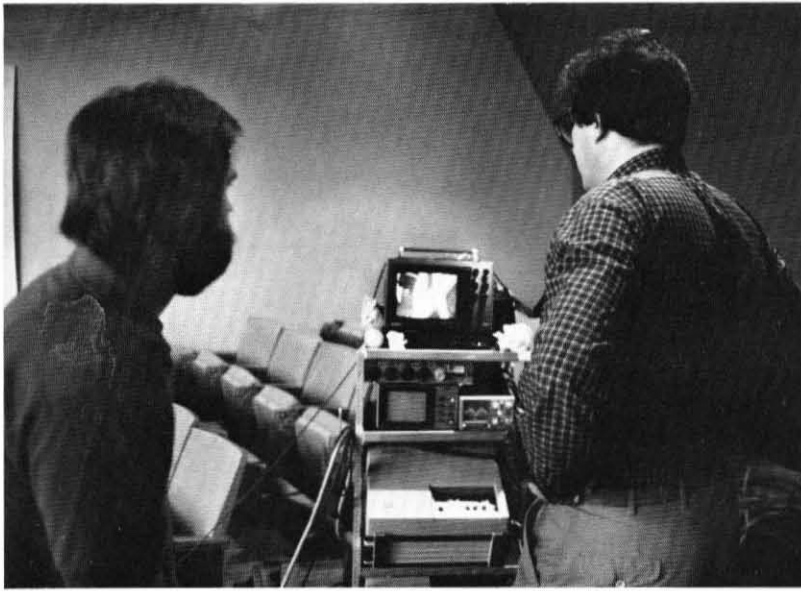
*Three important
people:*

Peter Buffa
Producer

Galileo Galilei
Research

David Goodstein
Director and Host





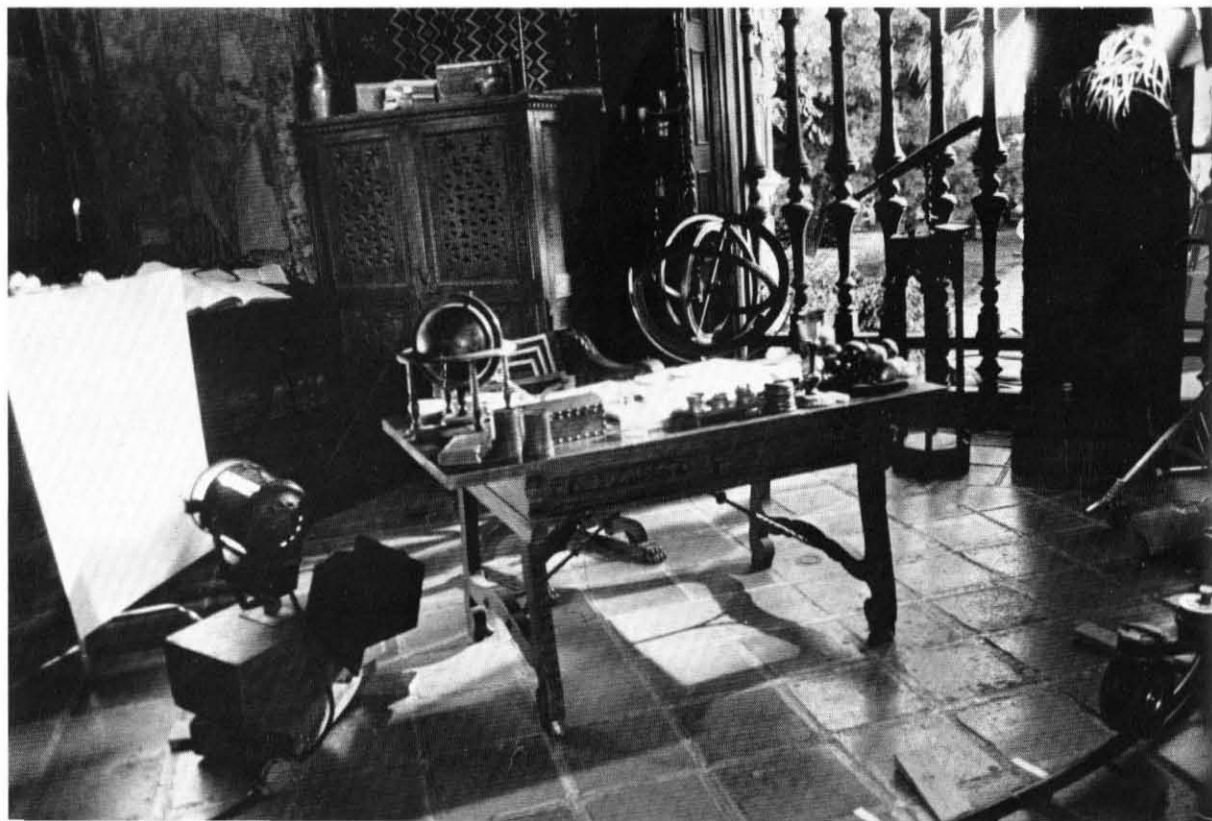


Man, man, your time is sand
Your ways are leaves upon the sea
I am the eyes of Nostradamus
All your ways are known to me

—Al Stewart



*The famed
leaf-drop
experiment*

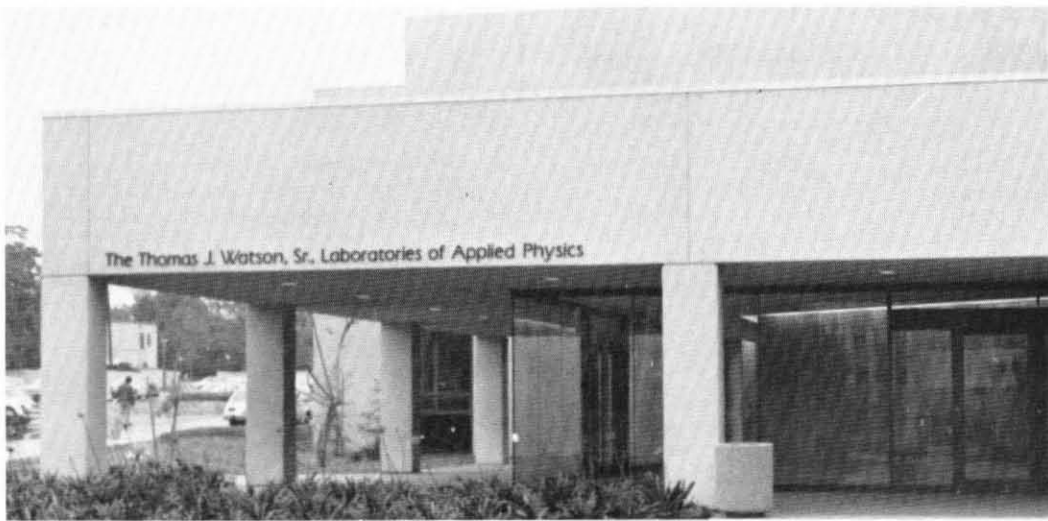


New Buildings



*There's a parking lot on the piece of land
Where the supermarket used to stand
Before that there was a bowling alley
On the site that was the local Pally
—Ray Davies*

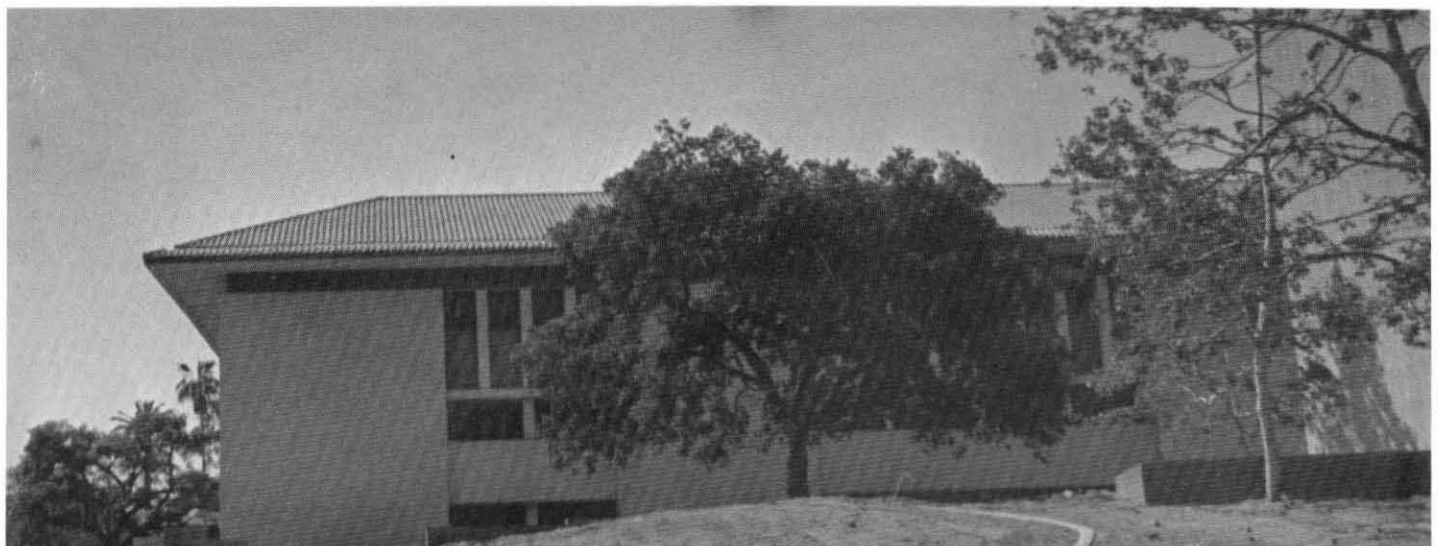




I'm an urban guerrilla
I make bombs in my cellar
I'm a double-e taylor
I'm a potential killer
I'm a street fight dancer
I'm a revolution romancer
What's inside is cancer
I'm a two tone panther



Let's not talk of
love and flowers
and things that
don't explode
You know we used
up all of our
magic powers
trying to Do It
In The Road!
So watch out
mister business
man, you're
empire's about
to blow!
Now I think you
better listen,
man, in case you
did not know
I'm an Urbane
Guerrilla!
Gotta Stay Cool!
-Dave Brock
Bob Calvert





BOMBS:

Above: Before

Above right: During

Right: After?

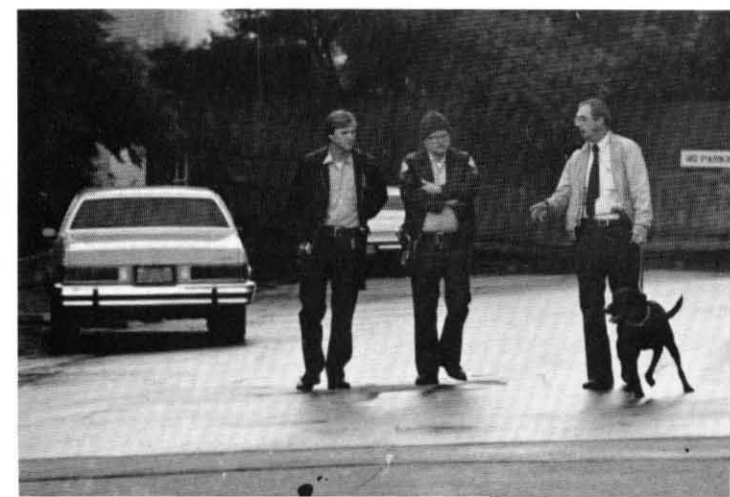


NOT BOMBS:

Left: Before

Left below: During

Below: Relaxing afterwards





An Incident (*above*), Another (*see Fleming*),
and the...

'Momentous' IHC Decision of -91i

In order that such actions are clearly realized as wrong by the members of Fleming and the rest of the Caltech community, the following measures are thus enacted:

- 1) Fleming House will pay a fine of \$1500 to the Master of Student Houses by June 10, 1983.
- 2) Fleming House apologizes to Steve Gomez and Don Buchholz of Dabney House and to the Caltech community for Fleming's actions on April 21, 1983.
- 3) Fleming and Dabney agree to the following "Non-aggression" pact and pledge to abide by its statement and its intent.

It is the sincere hope of the IHC that this incident, with regards to its effect on relations between Dabney and Fleming House, is thus resolved.

Non-aggression Pact

- 1) All members of Fleming House and Dabney House shall not engage in any aggressive or antagonistic action, whether physical or verbal, towards members of the other house.
- 2) This moratorium shall exist until the close of the 1982-83 school year.
- 3) Members of both houses must realize that it is their responsibility to make this pact work. In this regard it is imperative that all individuals seriously consider and take direct responsibility for their actions.

The following account of last Thursday's Fleming-Dabney incident was written and approved by the IHC on Wednesday, April 27:

The actions of Fleming House on April 21, 1983, which prompted the IHC decision of April 24 are not entirely clear to most members of the Caltech community. In the interest of minimizing incorrect speculation and maintaining openness within the community, we present the following summary of those events.

The abduction of Don Buchholz and Steve Gomez was planned ahead of time at a Fleming House meeting specifically called to discuss possible retaliation for the fact that Don and Steve, among others, had posed for a picture with the stolen Fleming flag and Country Club sign. The two were taken in the early afternoon and brought to a Fleming off-campus house, where they were bound and not allowed to leave. The total time for which the two were kept was approximately 2½ hours. In the course of their attempts to escape, some minor injuries were sustained. Most importantly, Don and Steve made it very clear that they did not want to participate, and the IHC considers it totally unacceptable for individuals to be held against their will.

This the text of the IHC ruling, which was approved unanimously at a special meeting held last Sunday, April 24:

In accordance with the powers vested in the IHC by Section 5 of the Resolutions to The Definition of the IHC which states "The IHC shall have jurisdiction over RF's between houses and is specifically empowered to act as it sees fit in matters concerning the RFing of one house by another," we take the following action.

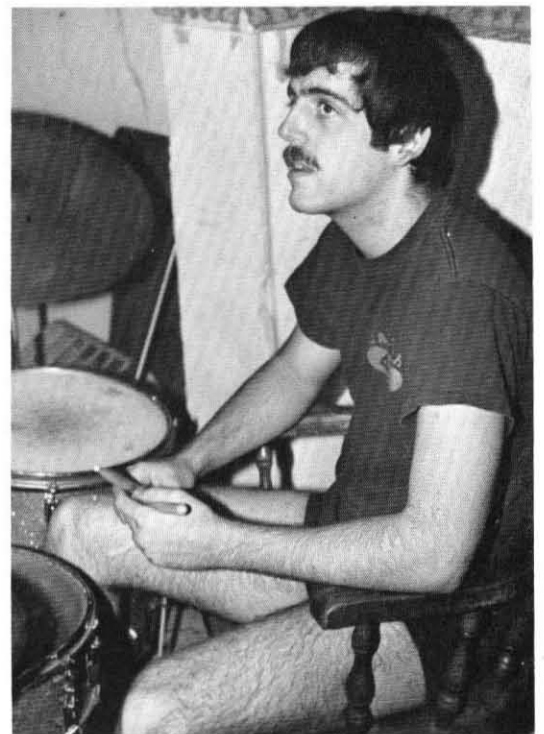
The IHC feels the actions taken by Fleming House on April 21 with regards to two members of Dabney House are completely unacceptable and are an affront to the idea of a community based on honor, trust, and mutual respect. It is felt that Fleming acted in an aggressive and overly physical manner.

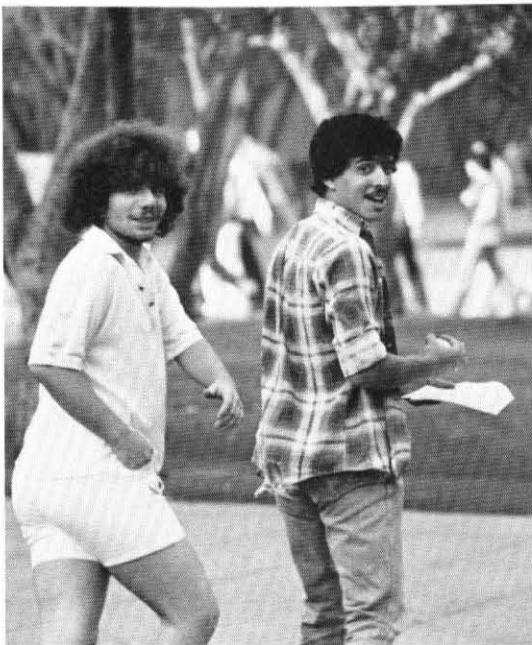
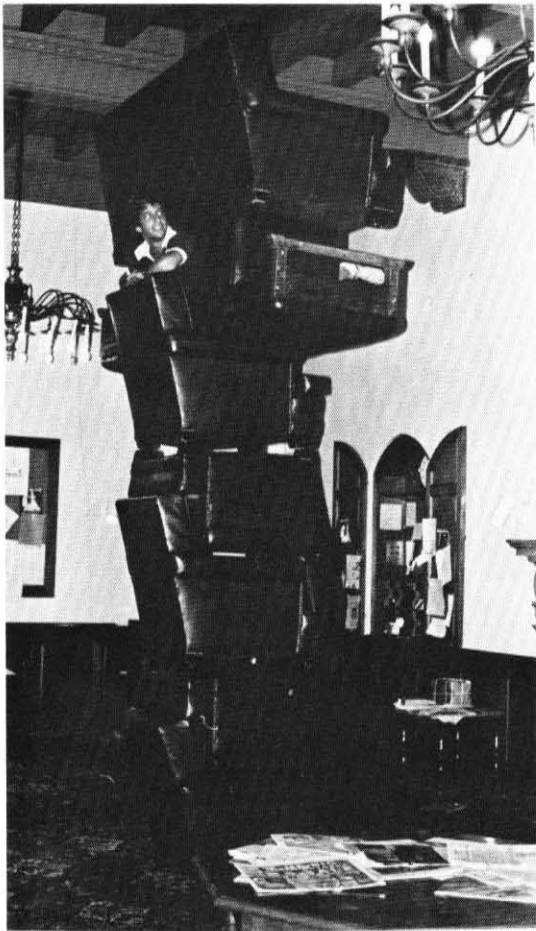


CAREER OPPORTUNITIES



THE ONES THAT NEVER KNOCK





Every job they offered you
is to keep you out the dock
-The Clash

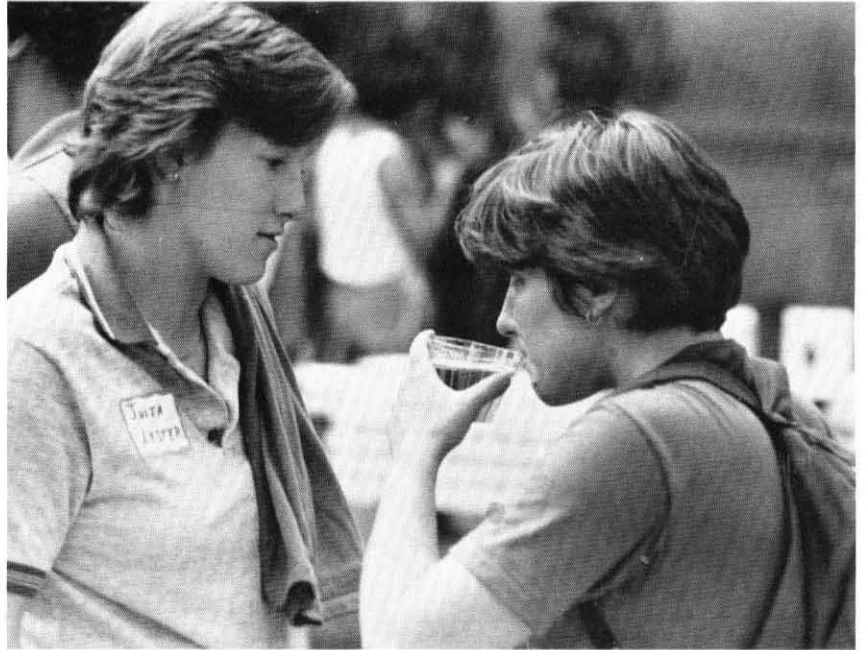


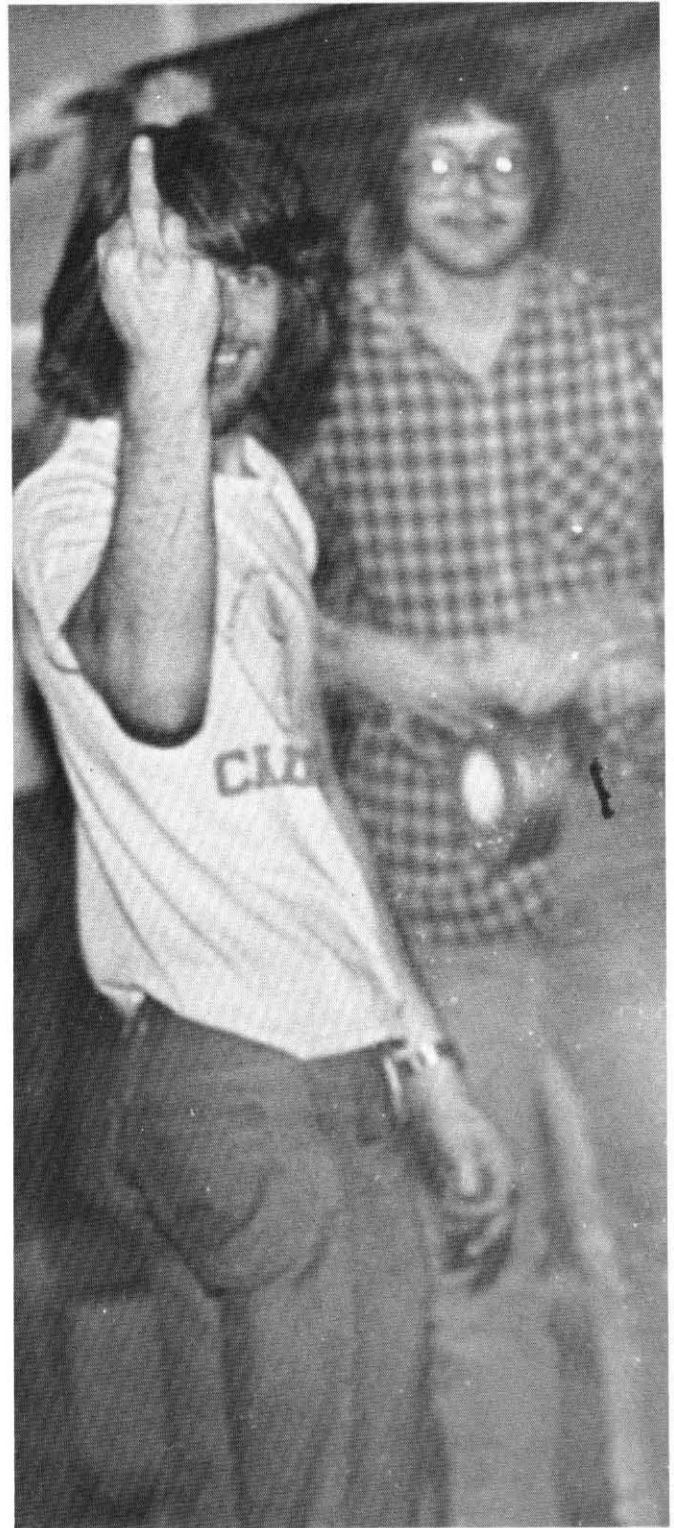
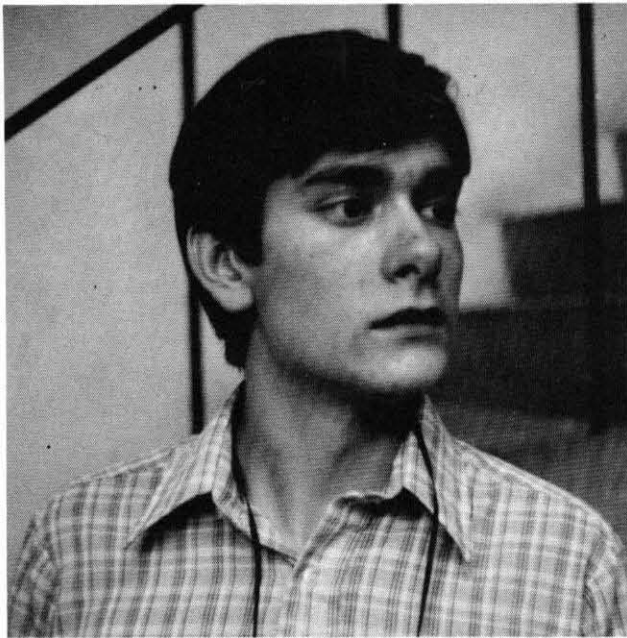
The leader's wife takes a government car
In the dark to meet her minister
But the leader never leaves his door ajar
As he swings his whip from the Boer War

He wore a leather mask for his dinner guests
Totally nude and with deep respect
He proposed a toast to the votes he gets
The feeling of power and the thought of sex!



Well the people must have
something good to read
on a Sunday
—The Clash

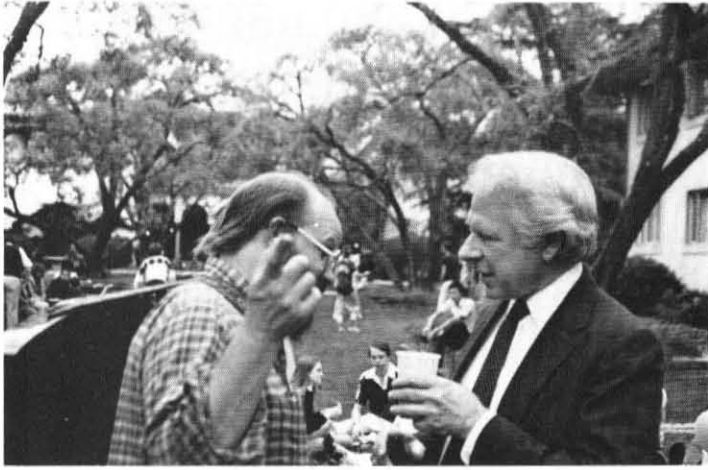




*Well he went down to dinner in his Sunday best
Excitable boy, they all said
And he rubbed the pot roast all over his chest
Excitable boy, they all said
Well he's just an excitable boy*

—Warren Zevon

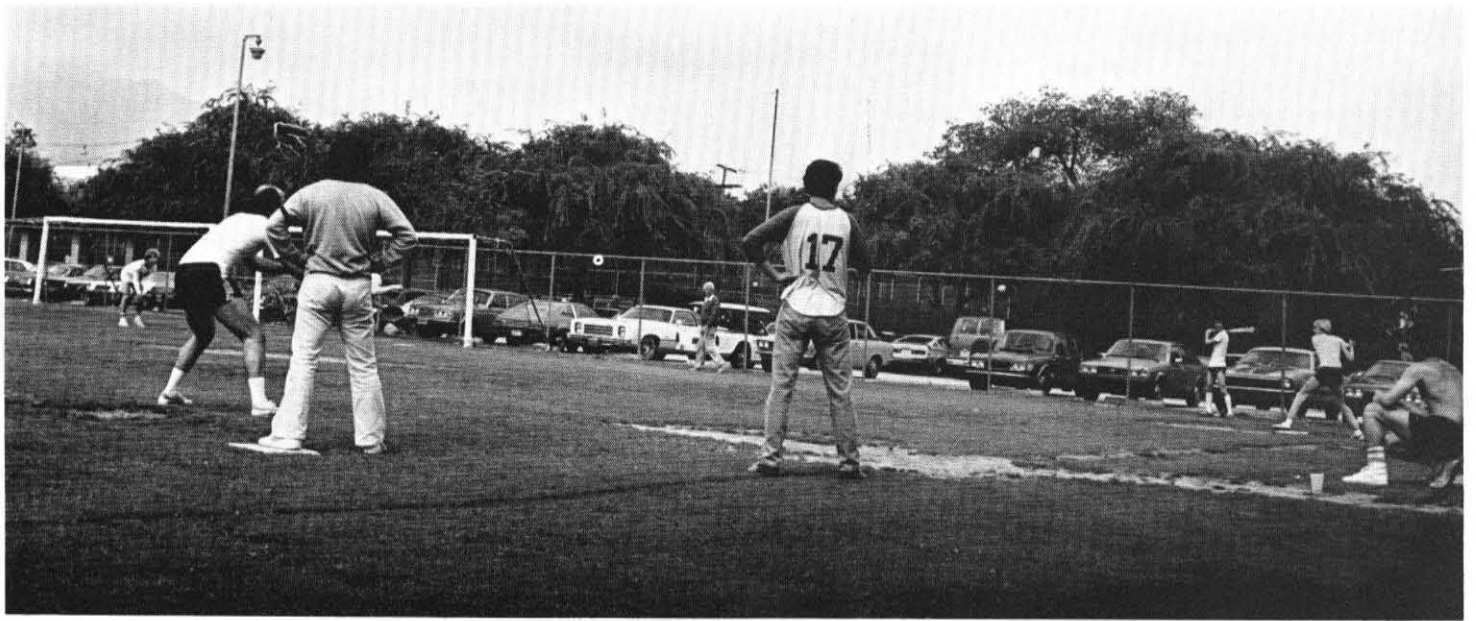




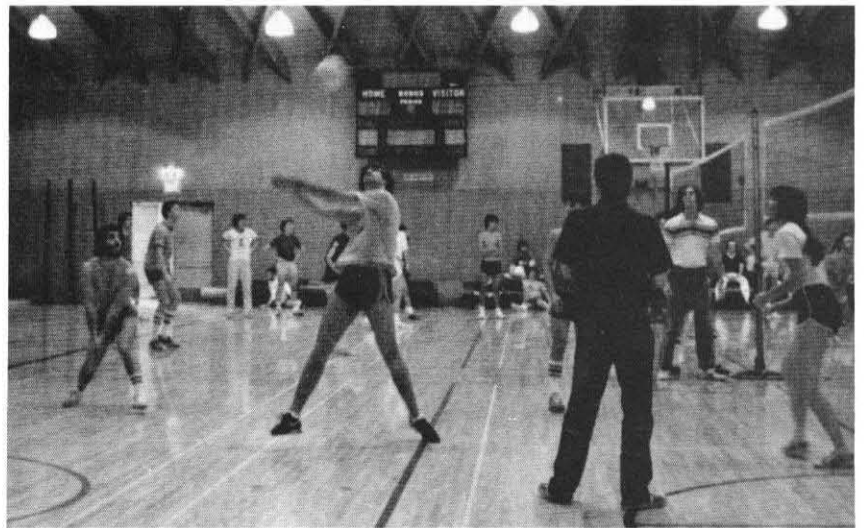
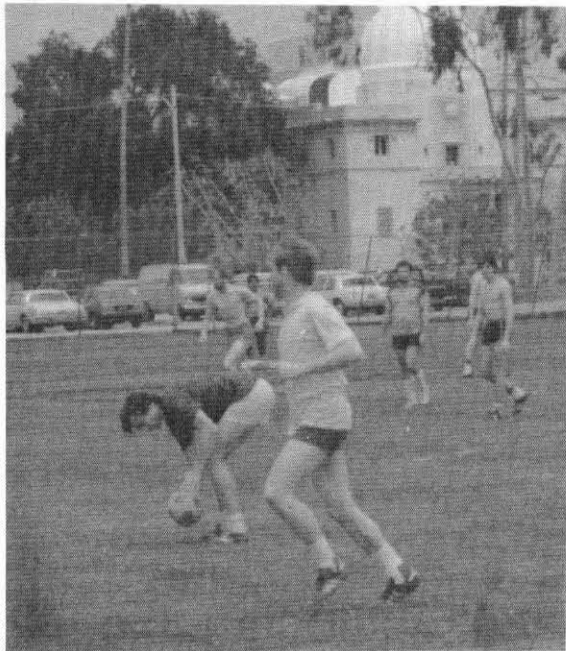
Sports Day Scores

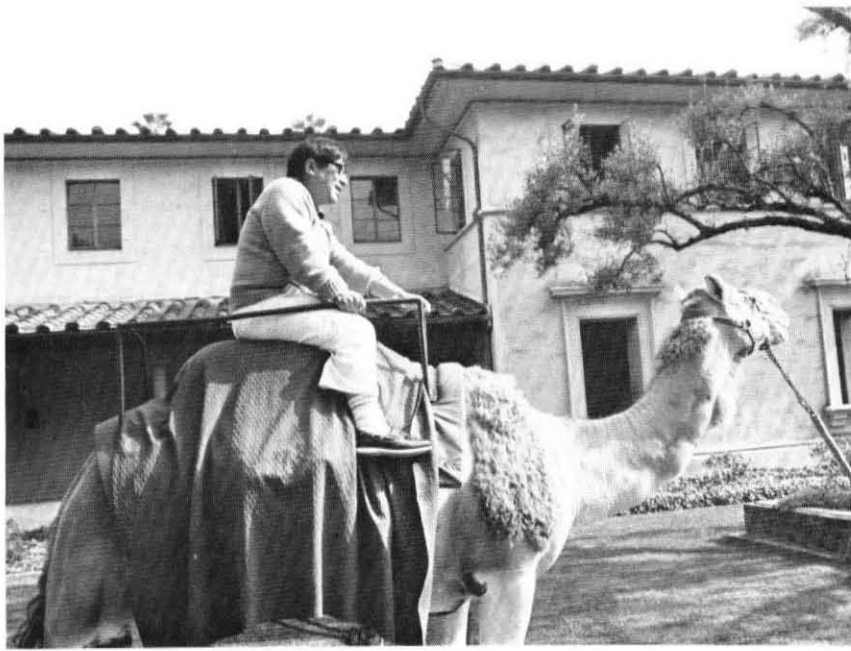
<i>Faculty</i>	<i>Ten</i>
<i>Gradturkeys</i>	<i>Six</i>
<i>Undergrads</i>	<i>Ate</i>





SPORTS DAY

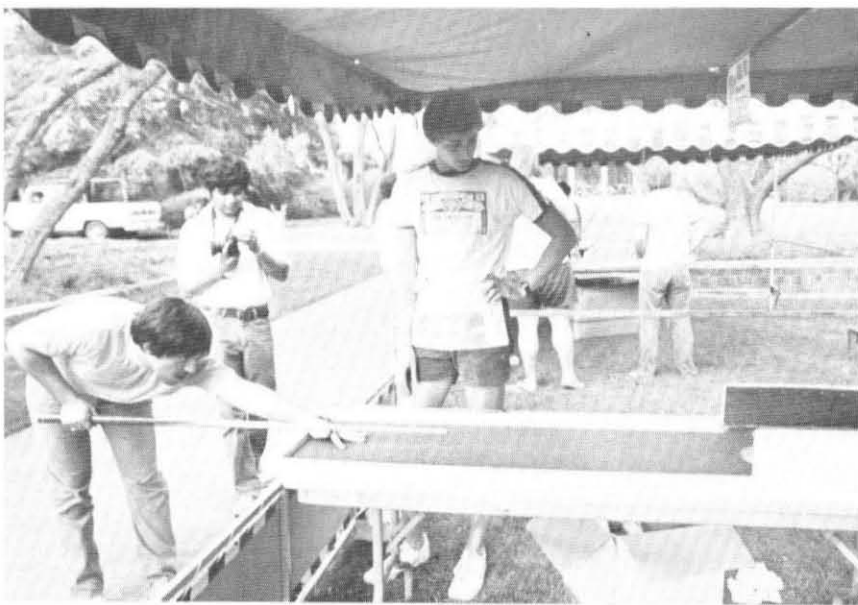




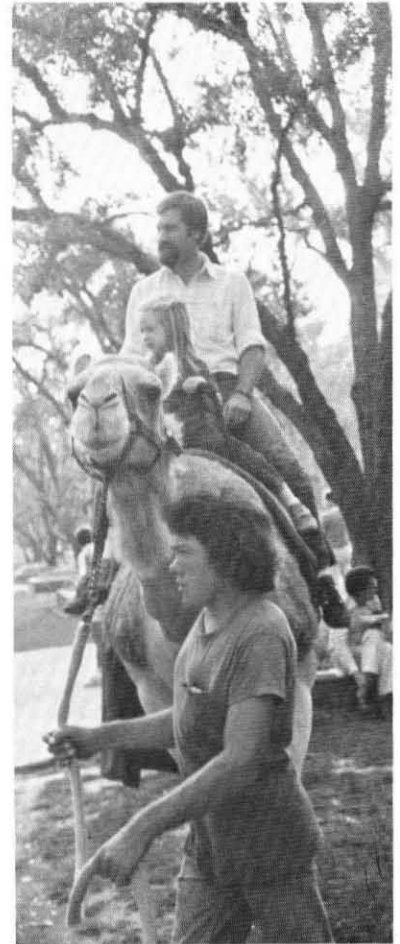
One day, you'll look
To see I've gone
But tomorrow may rain
So I'll follow the sun

Some day, you'll know
I was the one
But tomorrow may rain
So I'll follow the sun

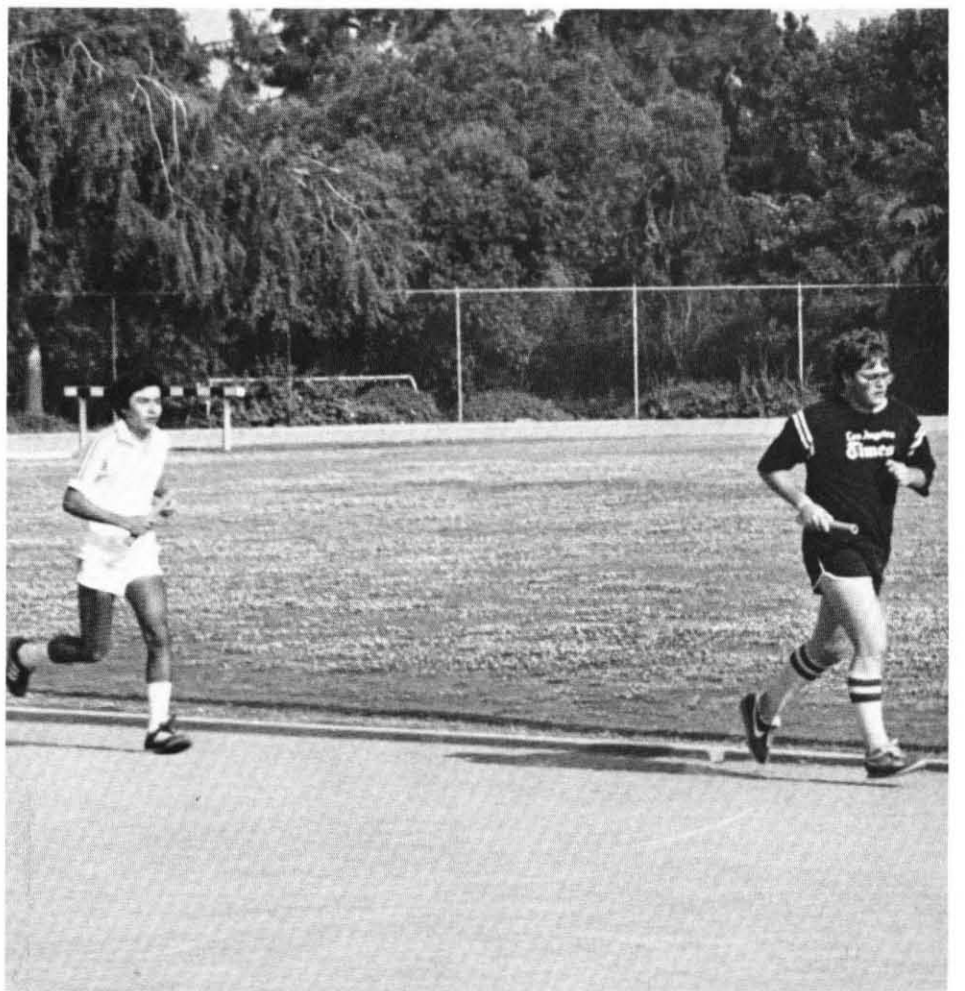
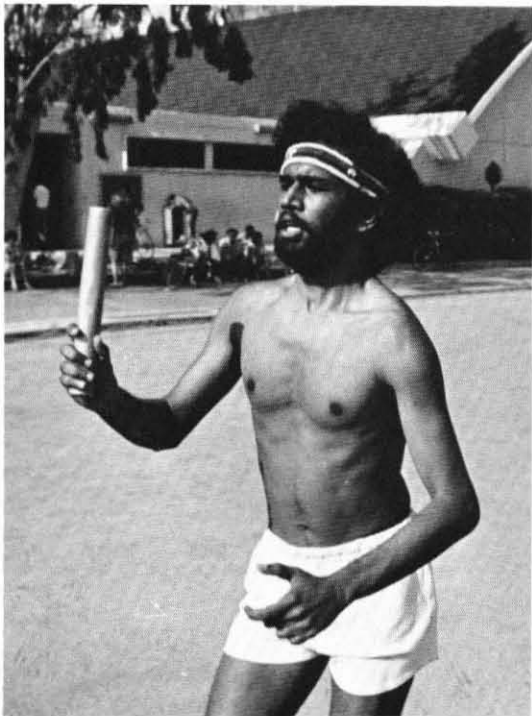
—John Lennon/Paul McCartney



GOOD-BYE, SUNNEY!

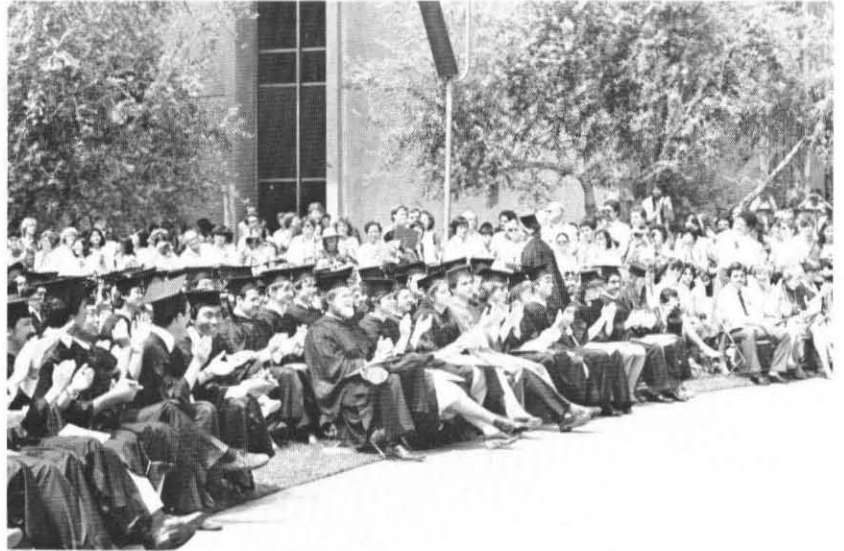






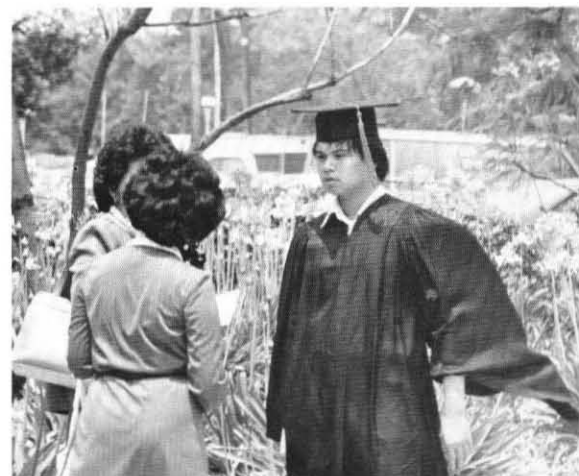
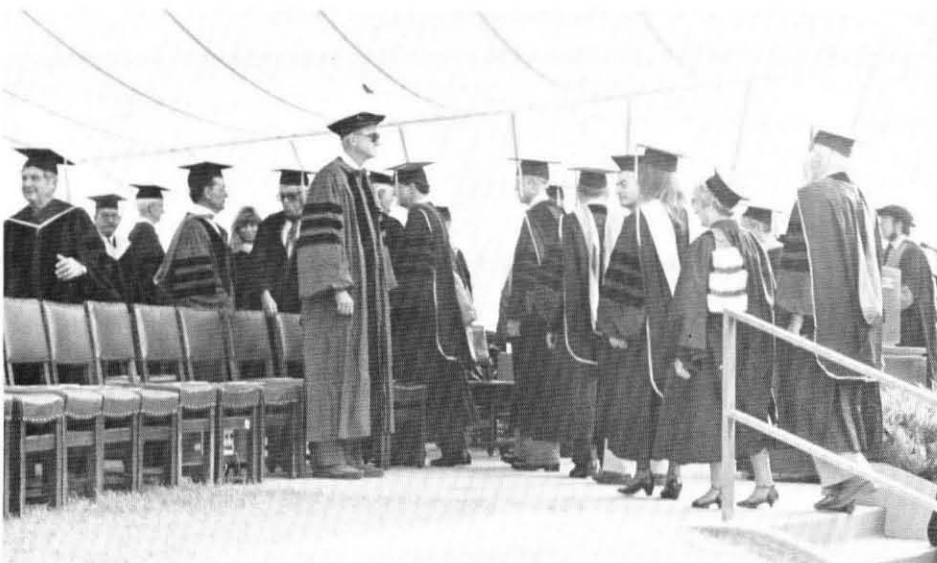
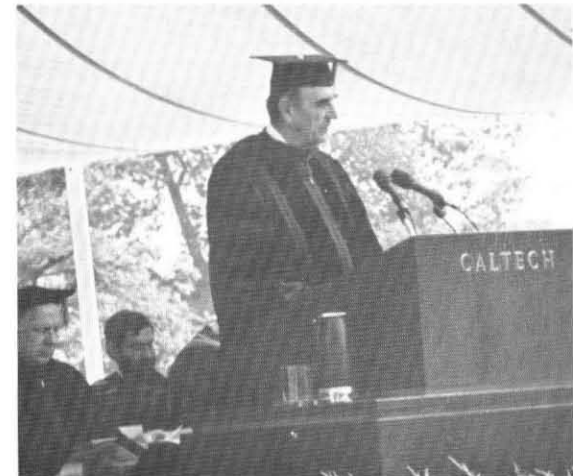
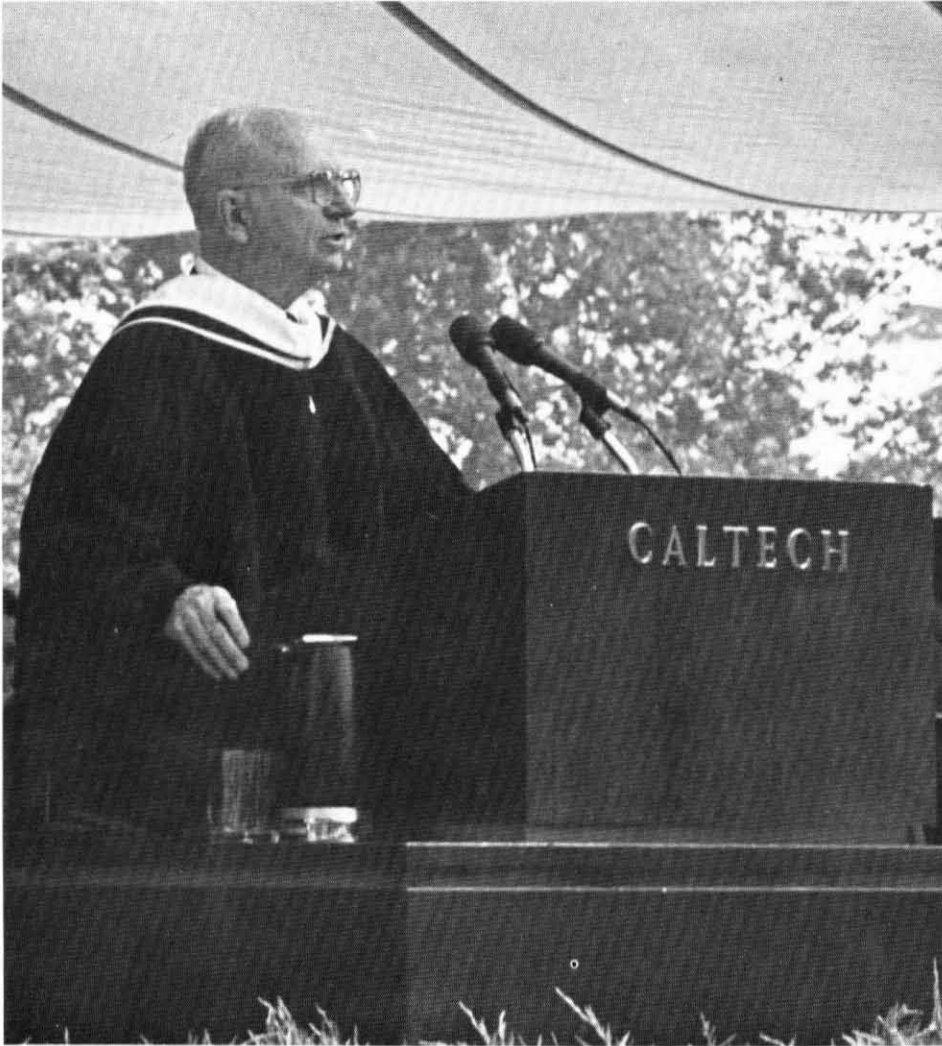
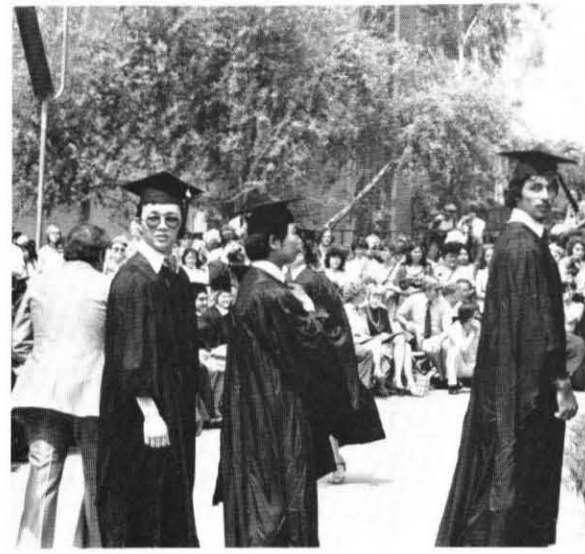
KELROF.

Commencement



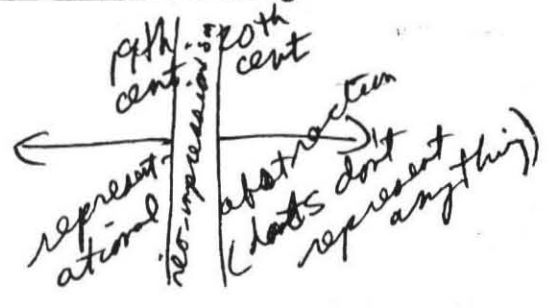
Oh the benches were stained
The birdies were flying
There was little to say
As I stepped to the stage

With tears and perspiration
From tree to tree
There was no conversation
To pick up my degree
—Bob Dylan

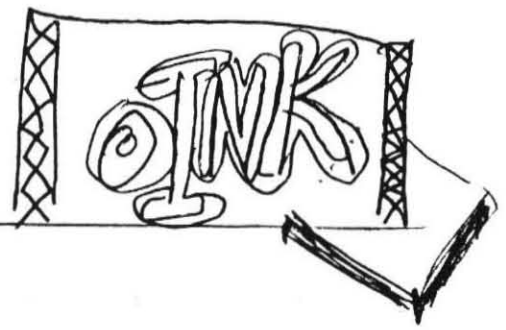


Feb 3

PIGS in ART



ich bin von Kopf bis Fuß auf Lieb
eingestellt.
denn ist meine Welt
und sonst gar nichts.



GAUGUIN

Synthetists

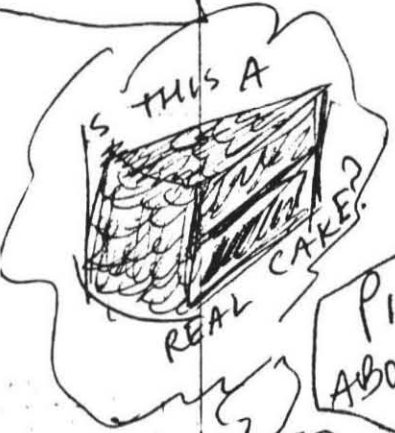
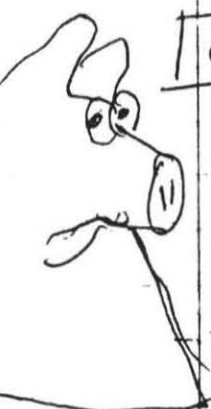
Vision After The Seimon - 1888

arbitrary arrangements of figures
primitiveness (Bretonne peasants)
rejection of materialism, modern science
and materialism.

art corrupted by society (value of art)

WHAT IS REAL?

painters ~~are~~ were supposed to
portray reality. But
what is real? Is
a dream real? Or
a vision?

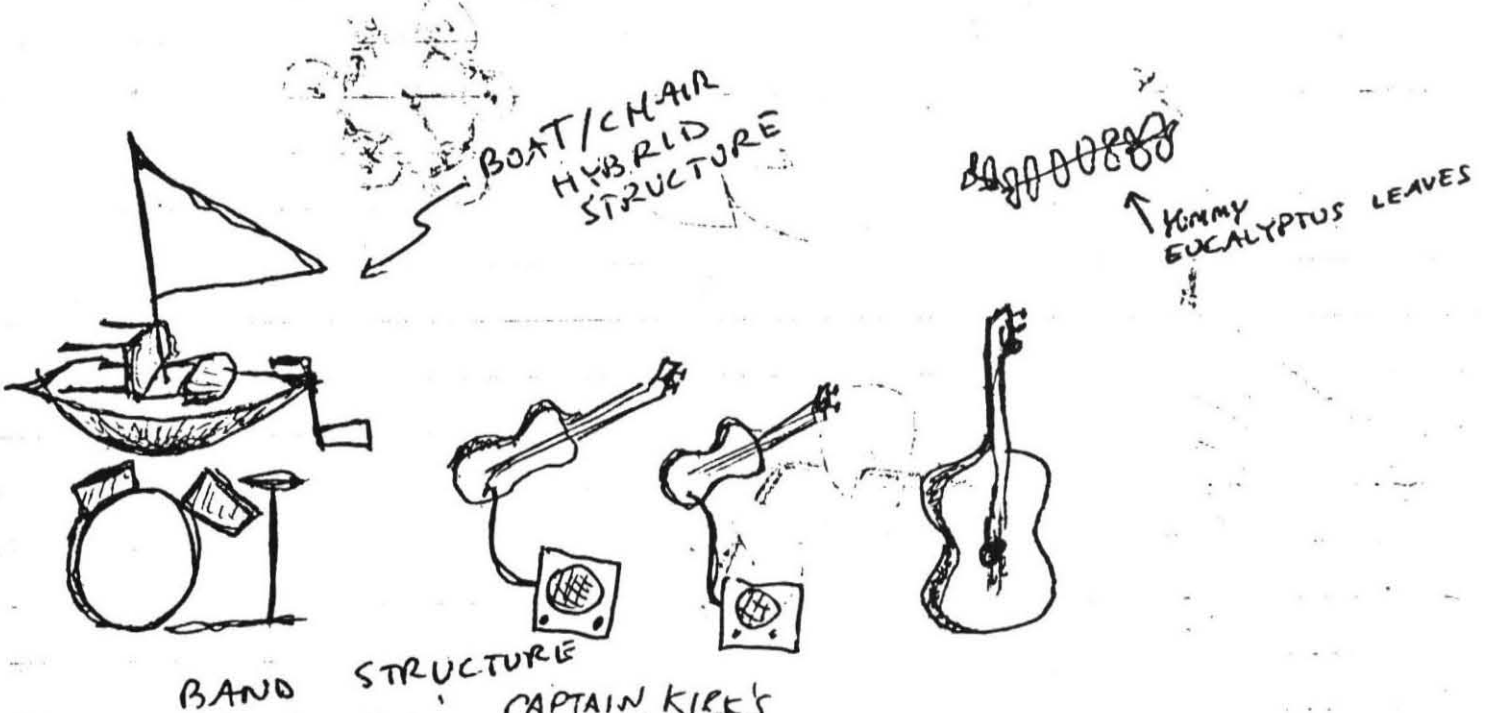


PIG DREAMING
ABOUT CHOCOLATE
CAKE AND
SALIVATING



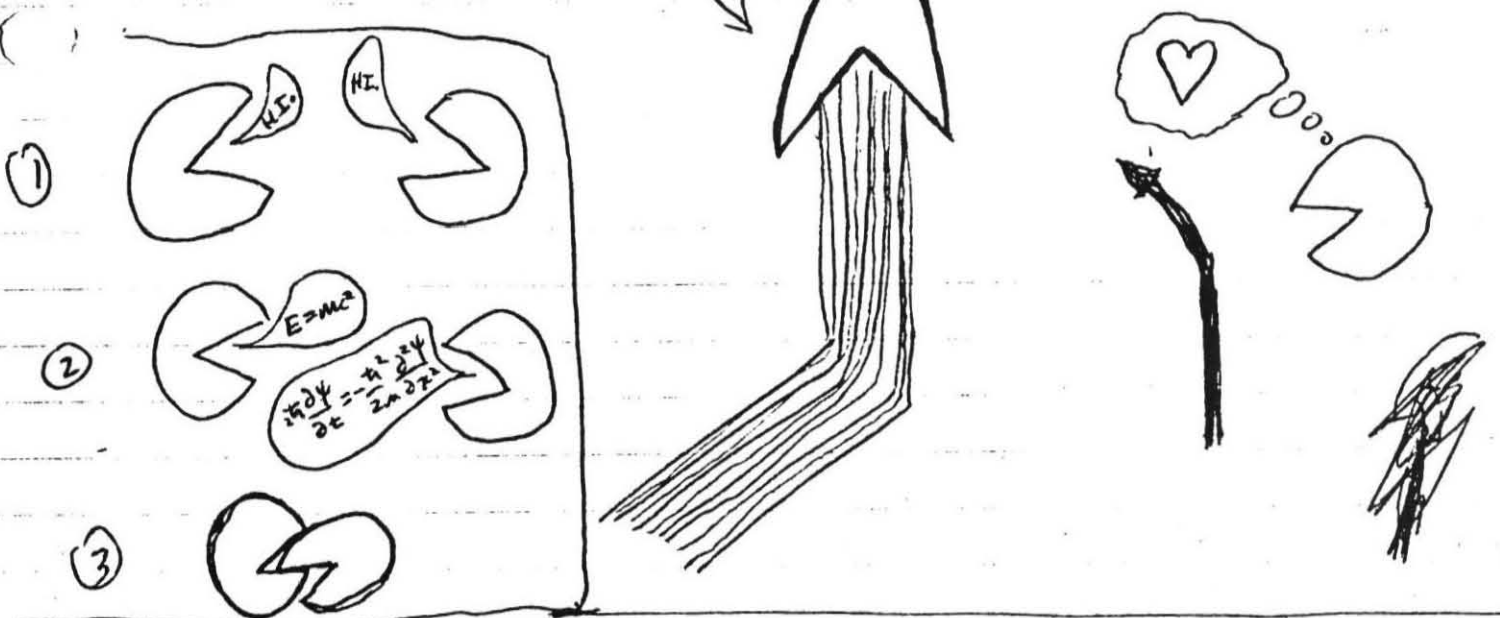
SENIORS

QUANTUM MECHANICS FOR WOMBATS



CAPTAIN KIRK'S
INSIGNIA BLEEDS
TO DEATH

CLAM CHOWDER
EATS SPAGHETTIE



"THERE ARE SOME WAVE FUNCTIONS THAT CAN'T BE NORMALIZED AND I APOLOGISE FOR THAT"

- e-STAN WHITCOMB
(1948-1982)



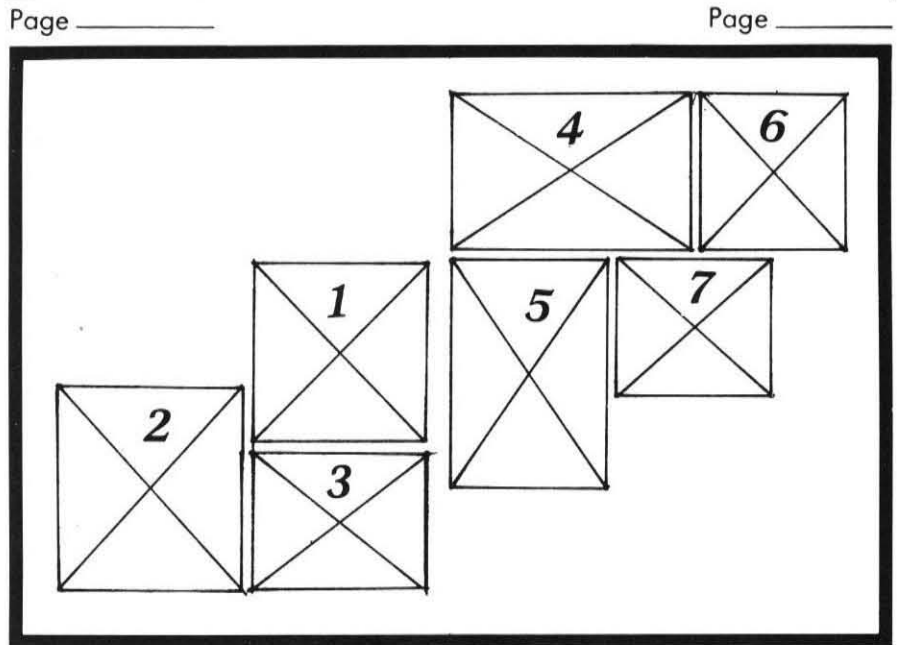
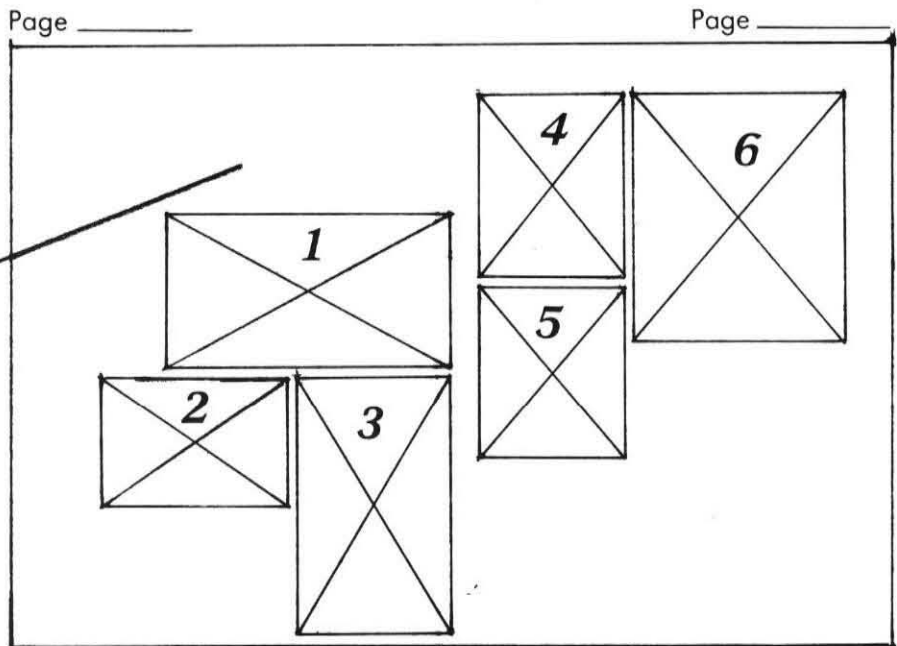
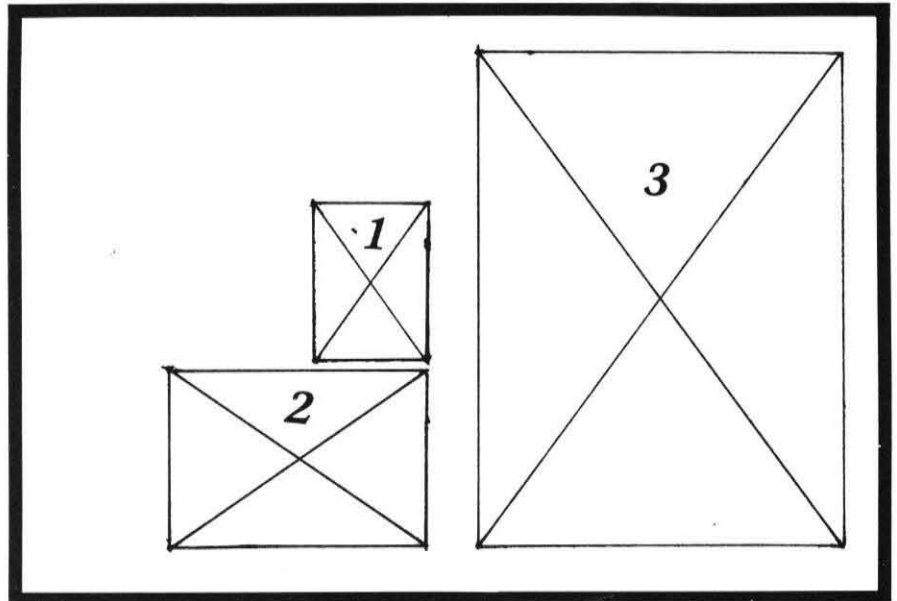
How To Use Your Senior Section

By Oink Zeggpold

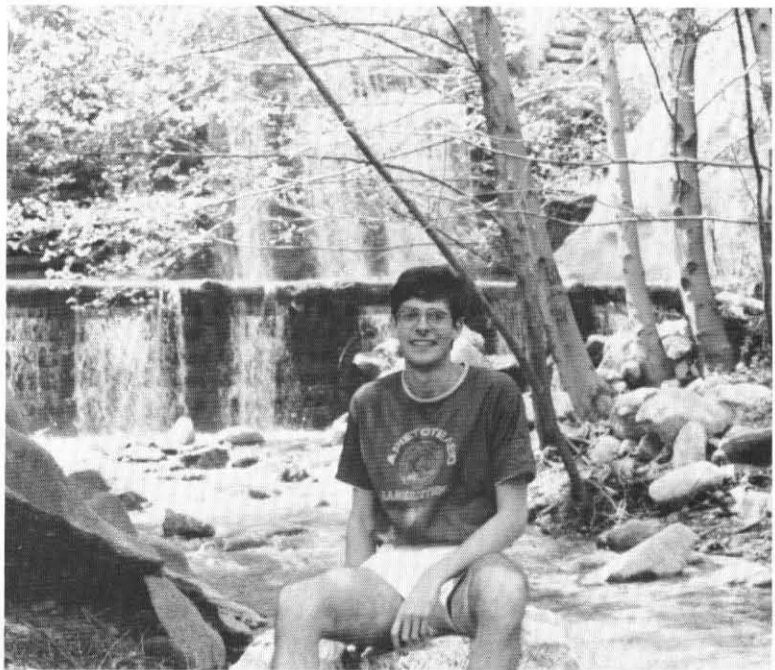
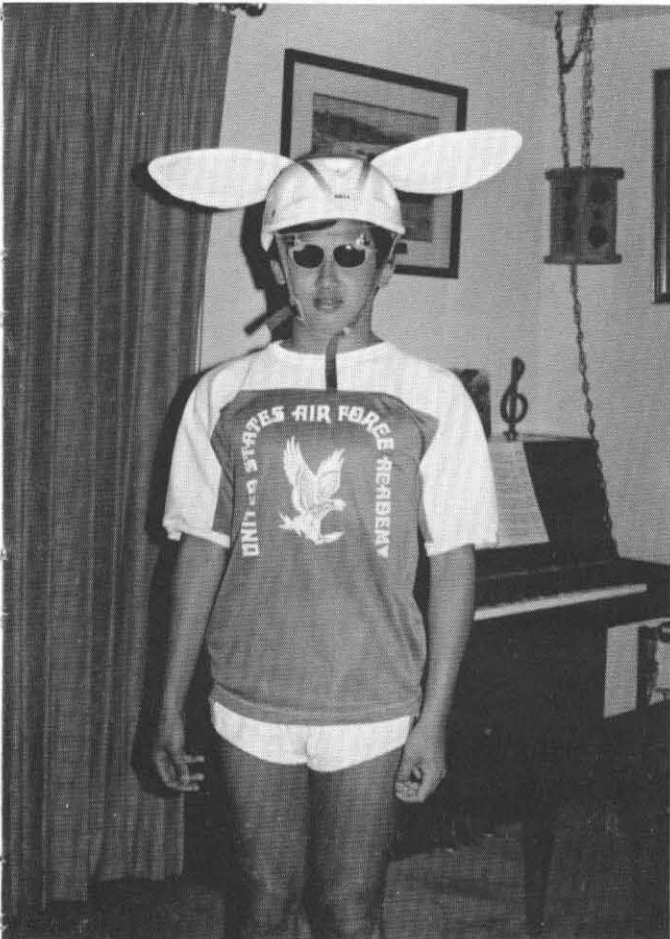
Hi, pigz, and welcome to the senior section of this year's **Big T!** I have been told to tell you how to use this section, but unfortunately, I have no idea how! So you'll just have to figure it out as well as you can from the *fine* drawings to the right.



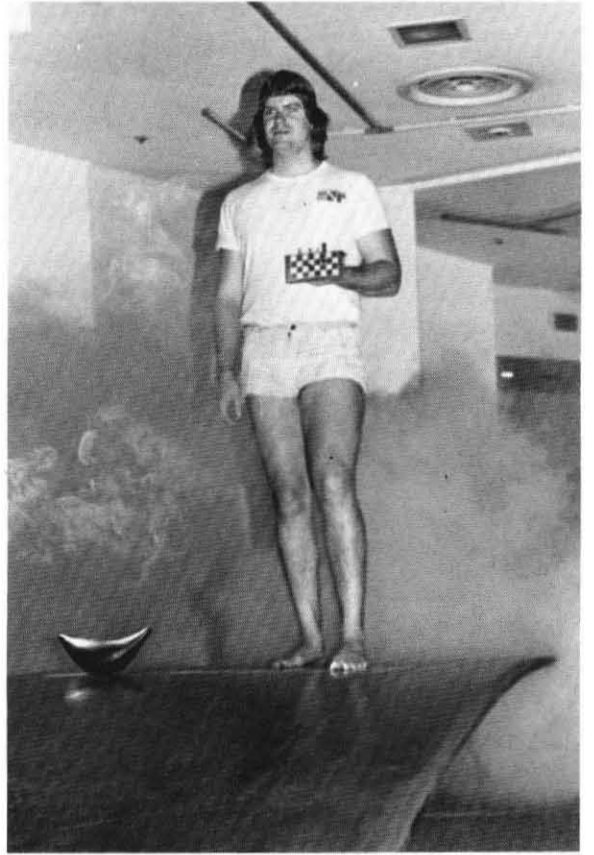
Oink Zeggpold
©1983 Mark Purfill

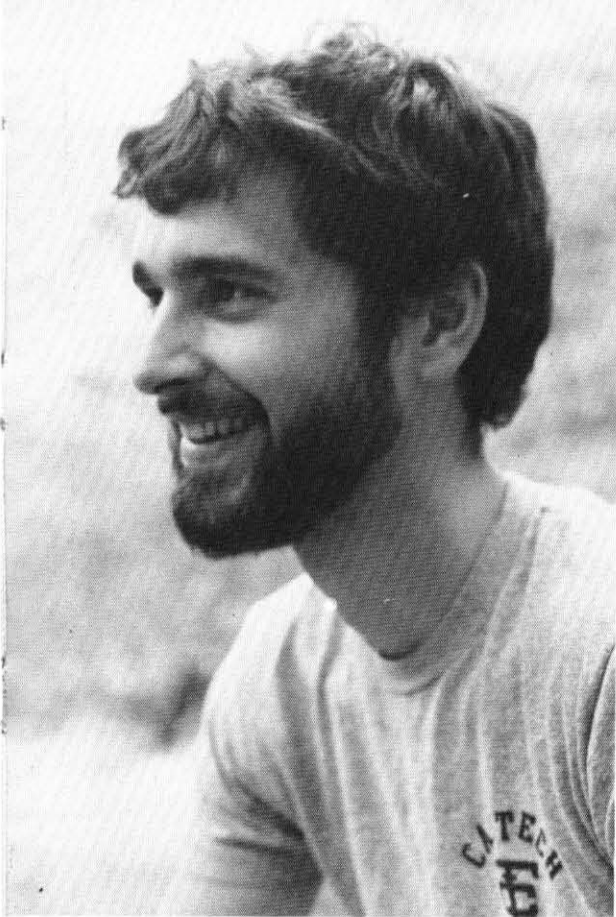


Page _____ Page _____



4. *Anthony Capowski*
Manchester, New Hampshire *Electrical Engineering*
5. *Ri-Chee Chou*
Sunnyvale, California *Electrical Engineering*
6. *Evangelos Simoudis*
Thessalonika, Greece *Electrical Engineering*
7. *Frank Evans*
Los Alamos, New Mexico *Physics*





1. Michael Maurice Doty Houston, Texas
Engineering
2. Doug Heirich Ann Arbor, Michigan Engineering
3. Jon Quilliam (beer sign with long red tube)
Everett, Washington Engineering
4. Toby Tyler Mystic, Connecticut Engineering
5. John Cramer Seattle, Washington Engineering
6. John "Chip" Meiling
San Pedro, California Engineering
7. Wendy Rasmussen Edina, Minnesota Engineering

1. Ichiro "Ich" Sugioka
Kyoto, Japan Ae/ME

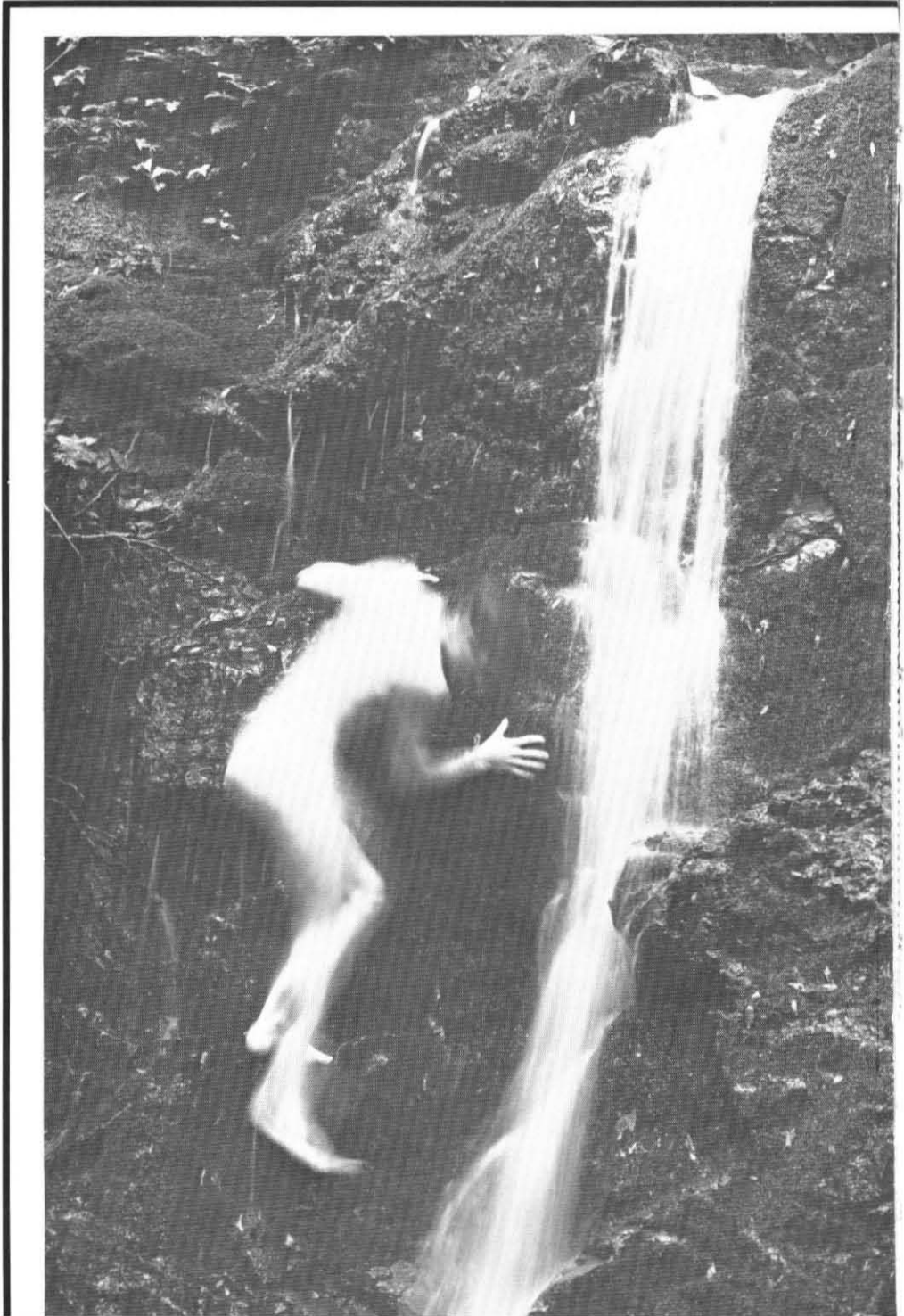
2. Dan Kostka
Minnetonka, Minnesota ME

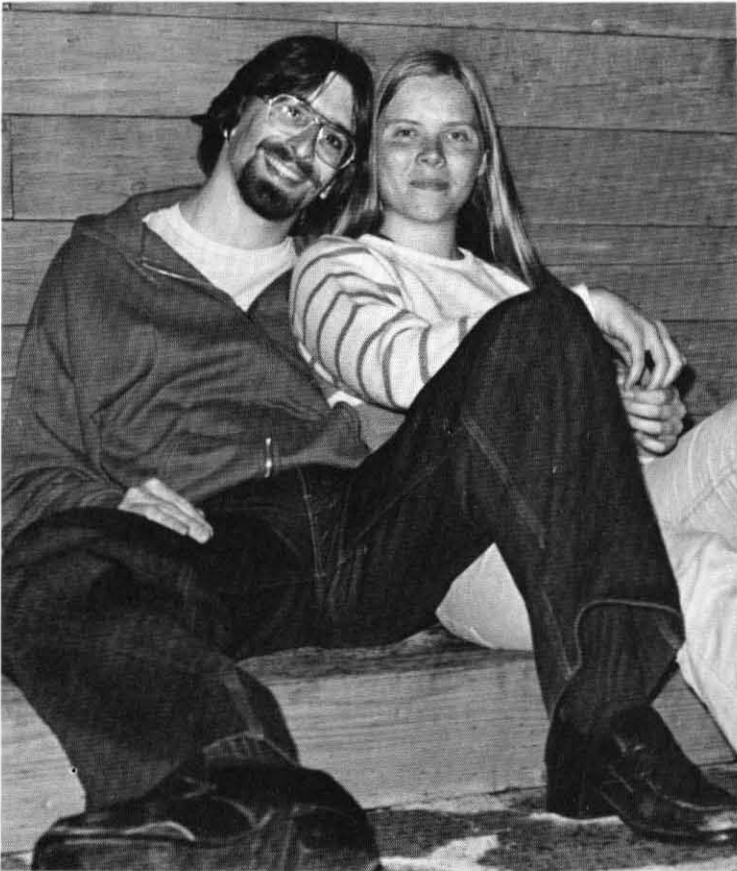
3. Tom Berto
San Anselmo, California ME

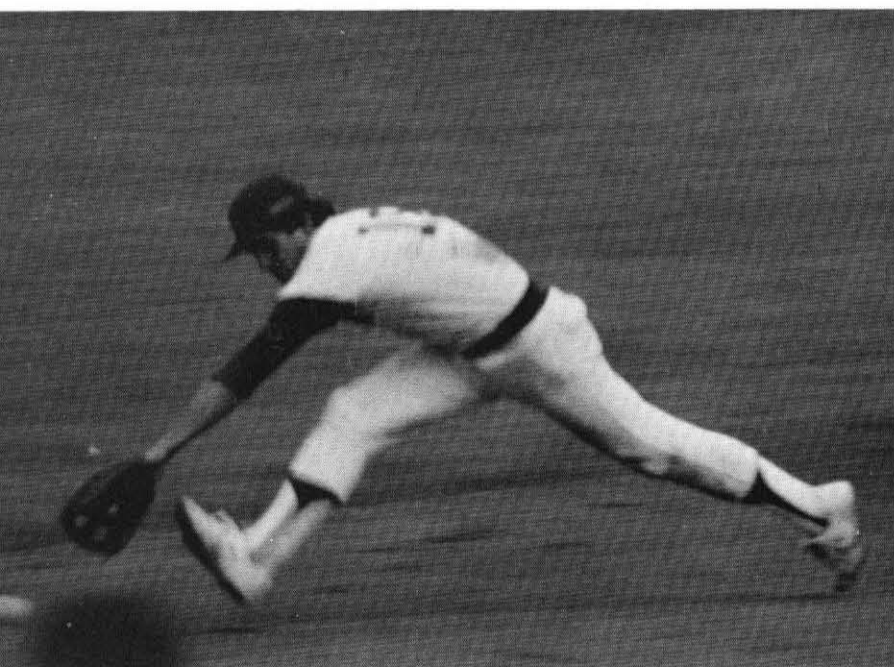
4. Mary Heinrich
Conifer, Colorado AE

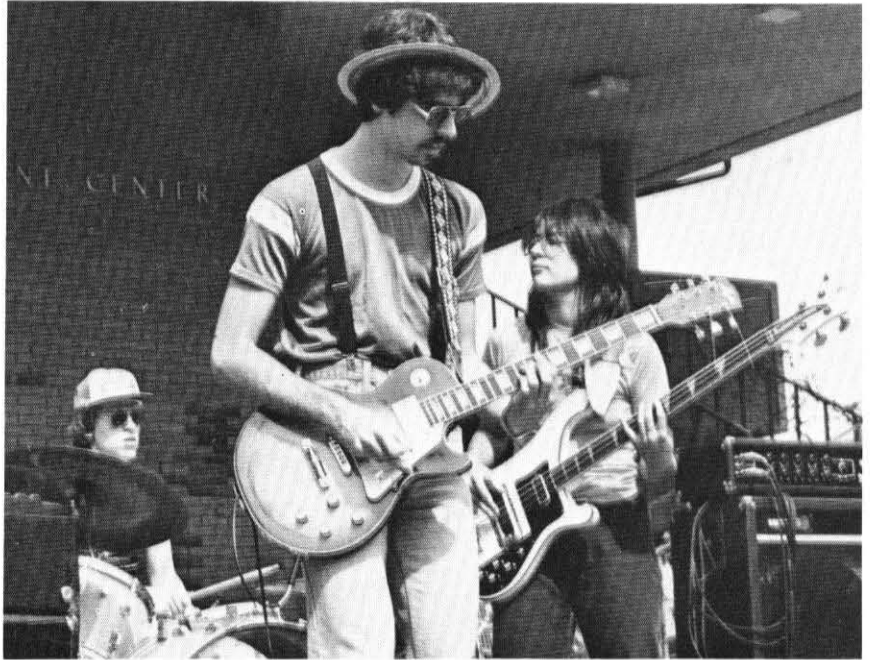
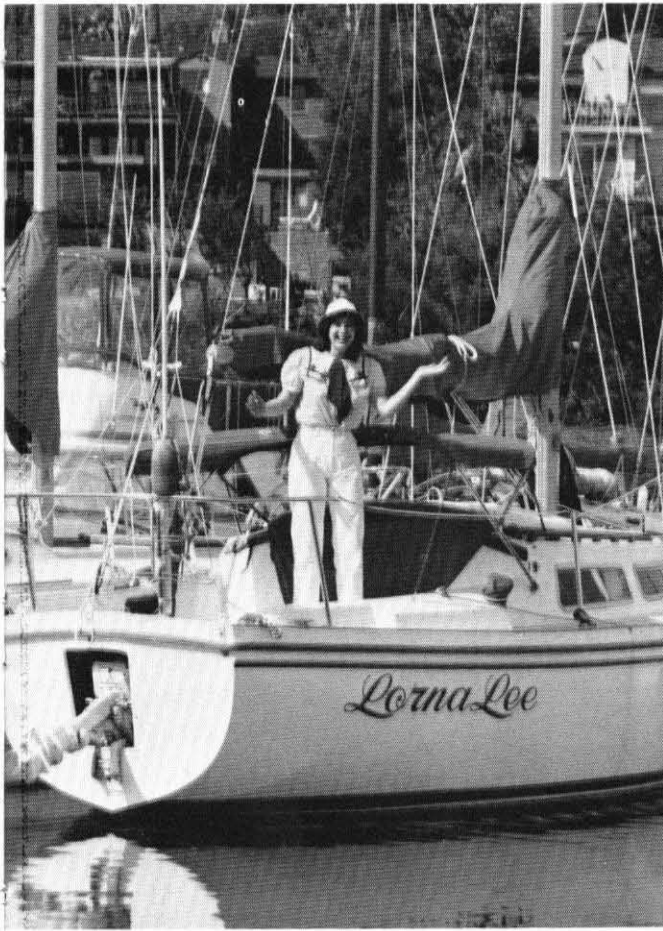
5. Vladmir Matijasevic
Beograd, Yugoslavia APh

6. Dave & Lyn Adler
Pasadena, California APh

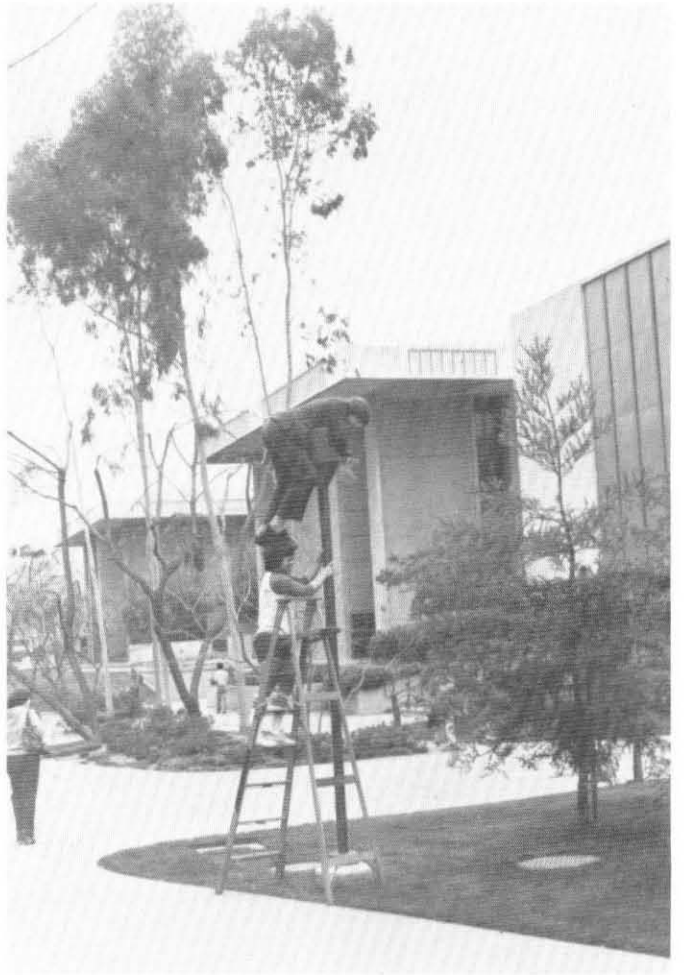
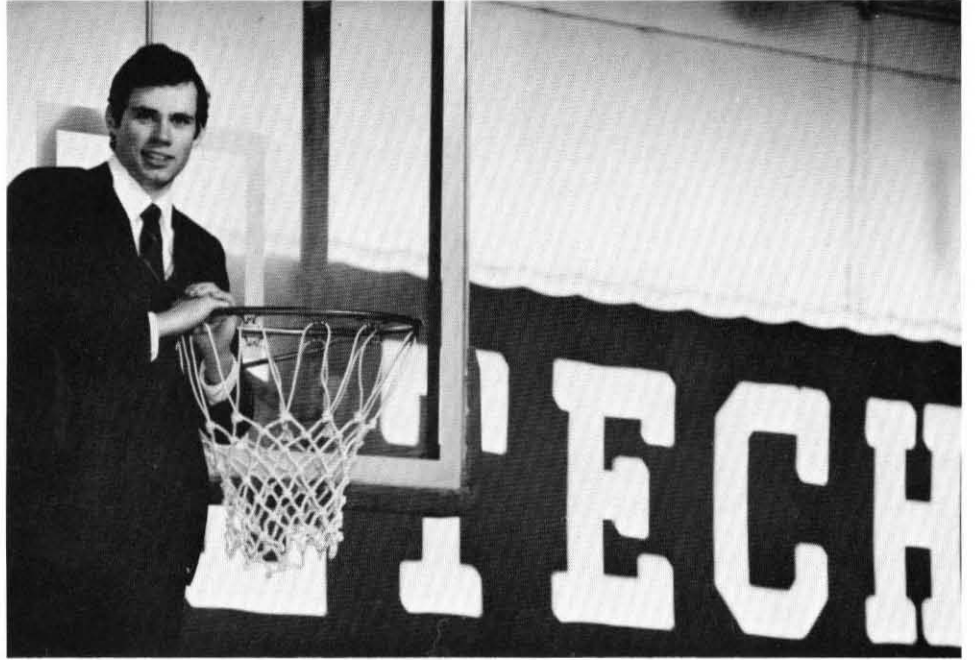


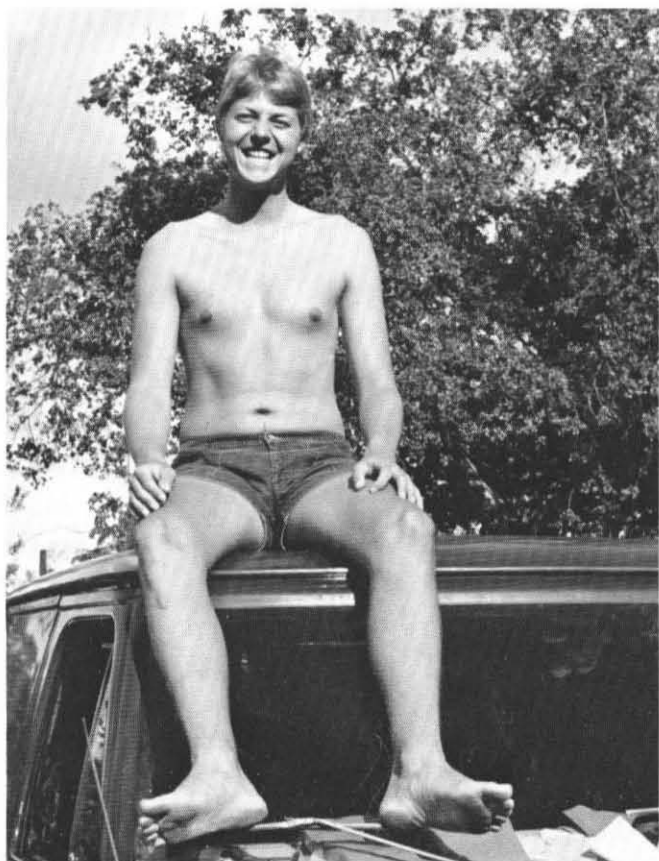




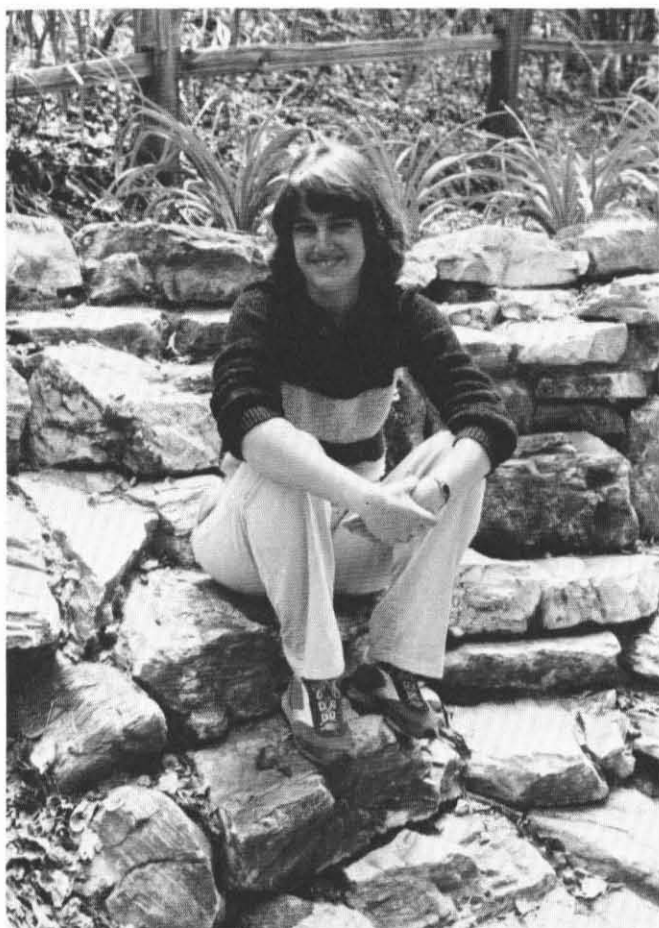


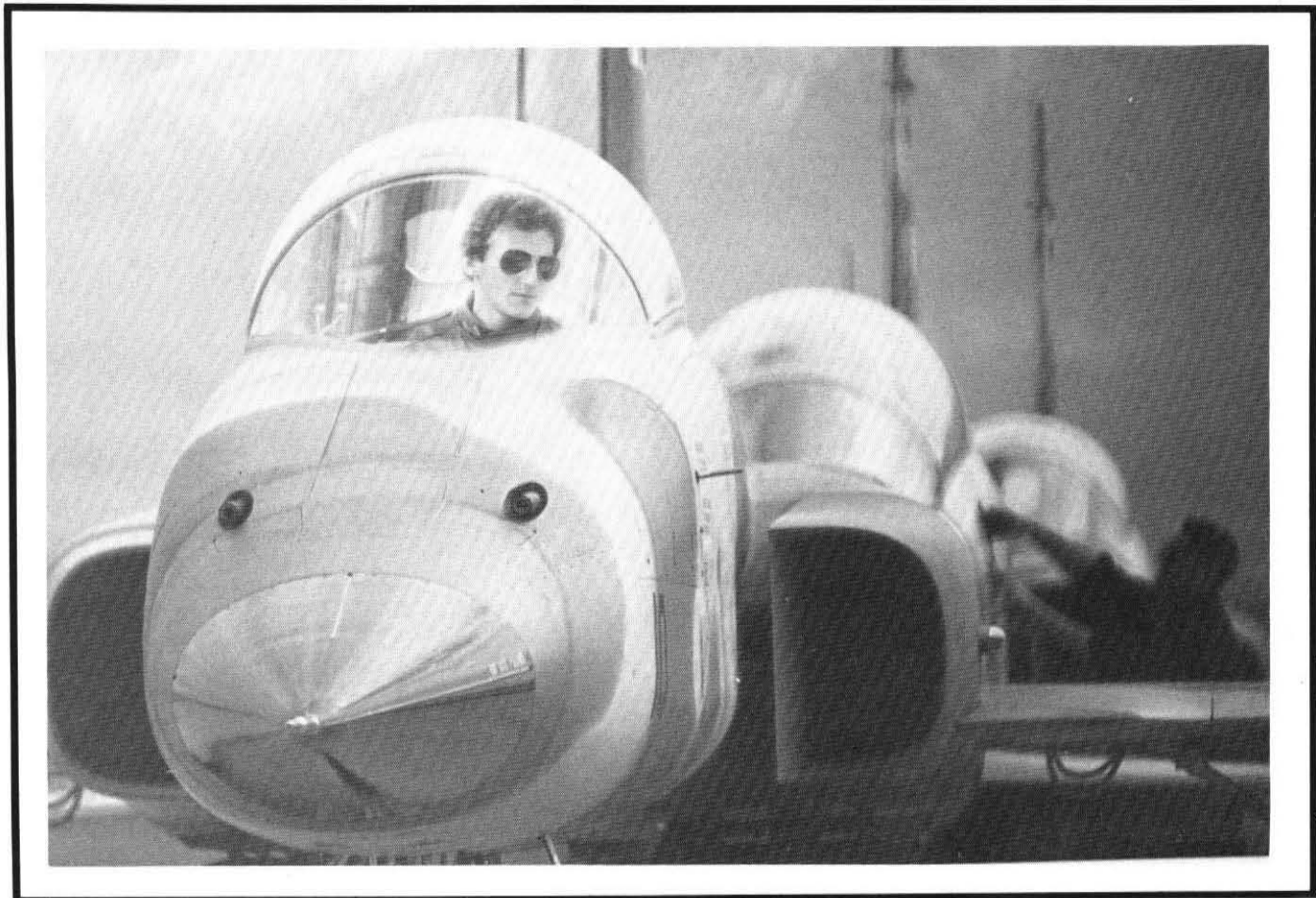
1. *Michael J. Mettill*
Neward, Ohio *Chemical Engineering*
2. *Armand J. Capote*
Brooklyn, New York *Chemical Engineering*
3. *Ilene Reinitz*
Geochemistry
4. *Lorna Anderson*
Sacramento, California *Chemical Engineering*
5. *Julia Kornfield*
Los Altos, California *Chemistry*
6. *Cheryl Robertson*
Littleton, Colorado *Chemical Engineering*
7. *Mario E. Fajardo*
Tulsa, Oklahoma *Chemistry*

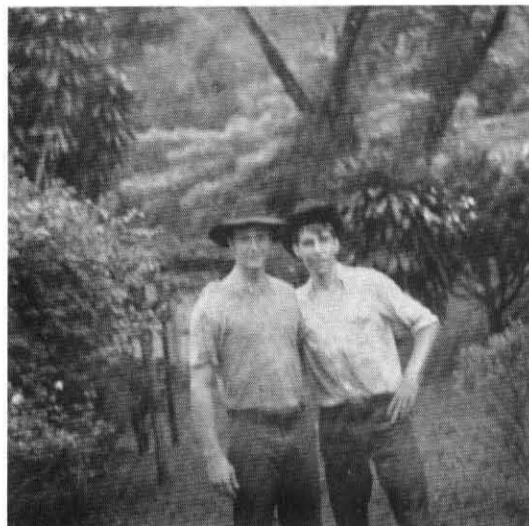
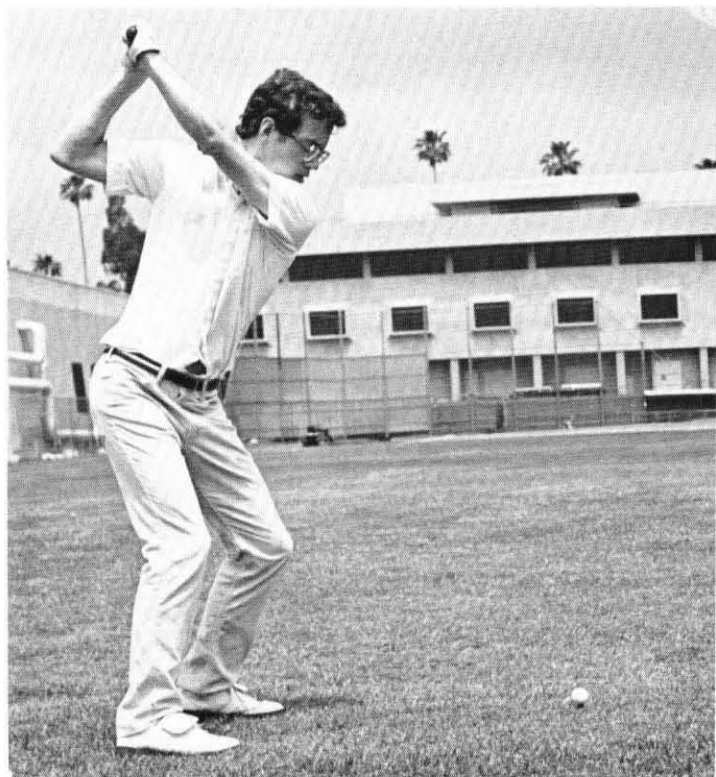
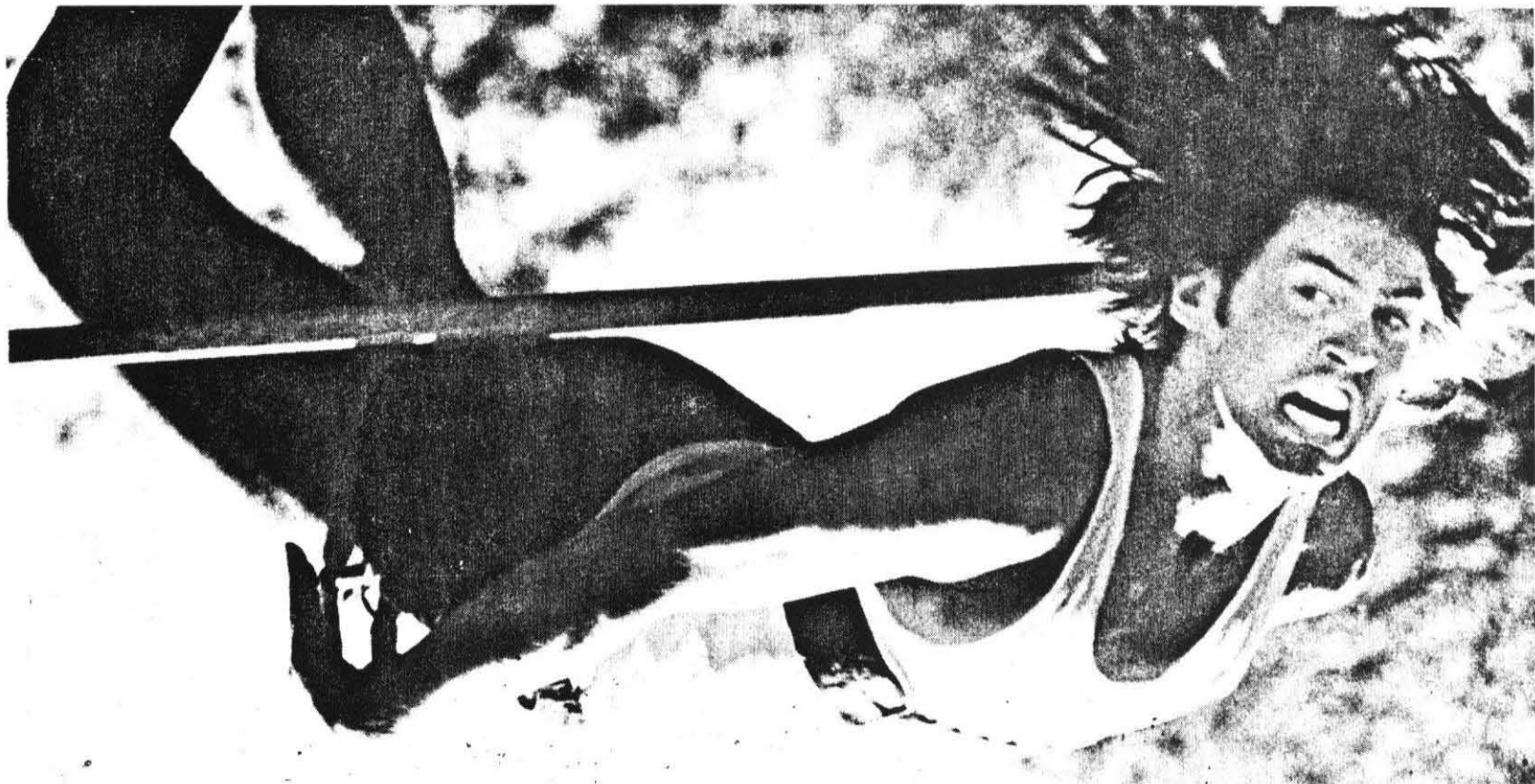




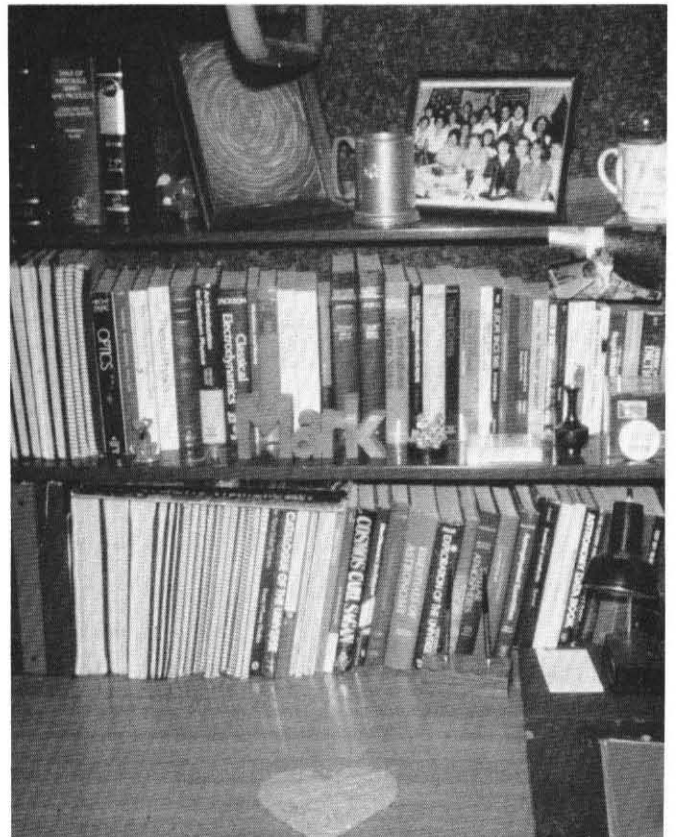
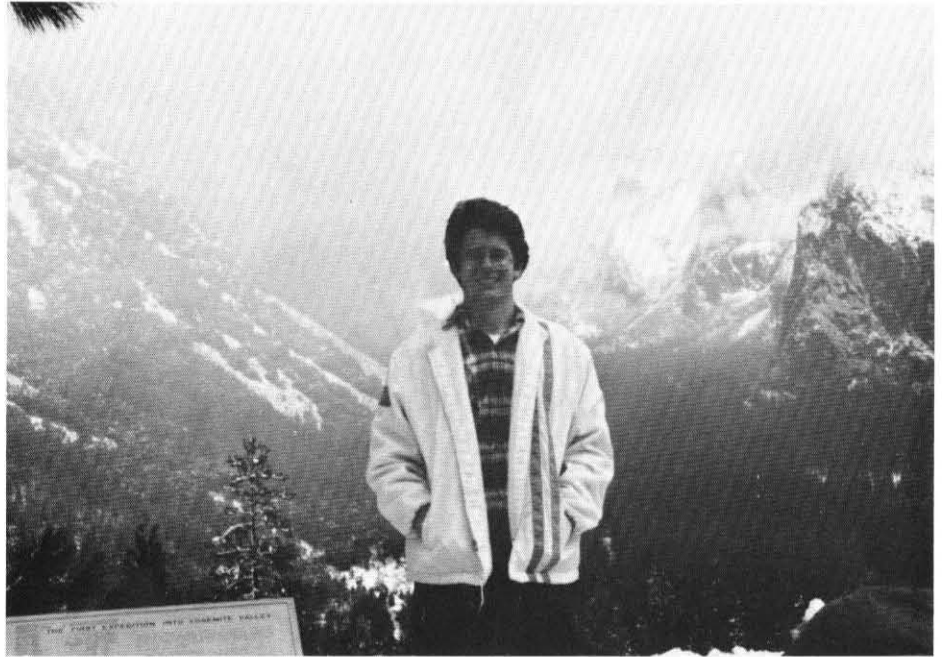
1. *Robert Golden*
San Marino, California *Chemistry*
2. *Vince Powers*
Newport Beach, California *Chemistry*
3. *Andy Liu*
Los Angeles, California *Chemistry*
4. *Jonathan Parker*
Hermosa Beach, California *Chemistry*
5. *Lynmarie Thompson*
Manhattan Beach, California *Chemistry*
6. *Justine Armantrout*
Bakersfield, California *Chemistry*

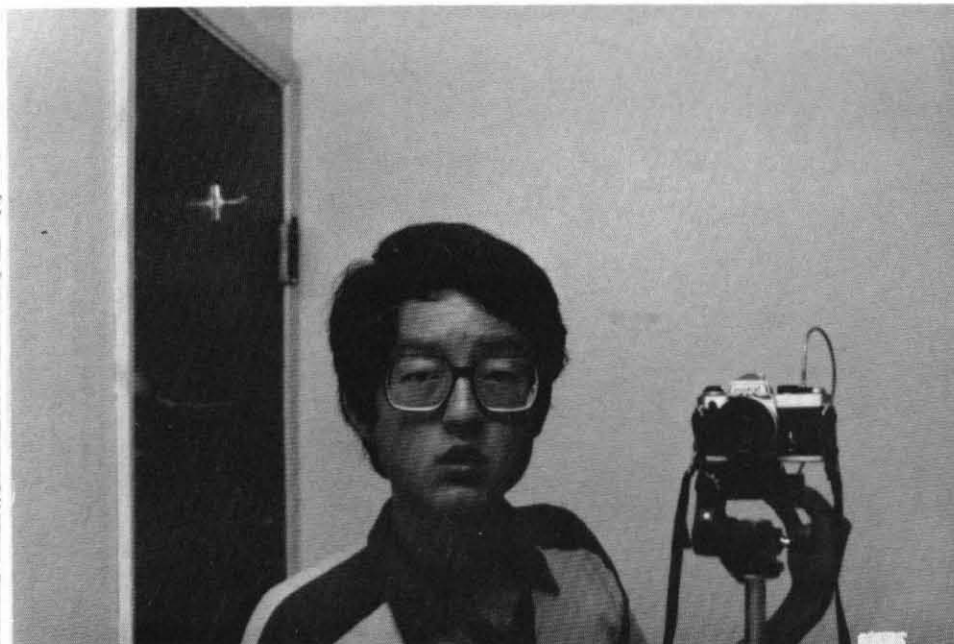
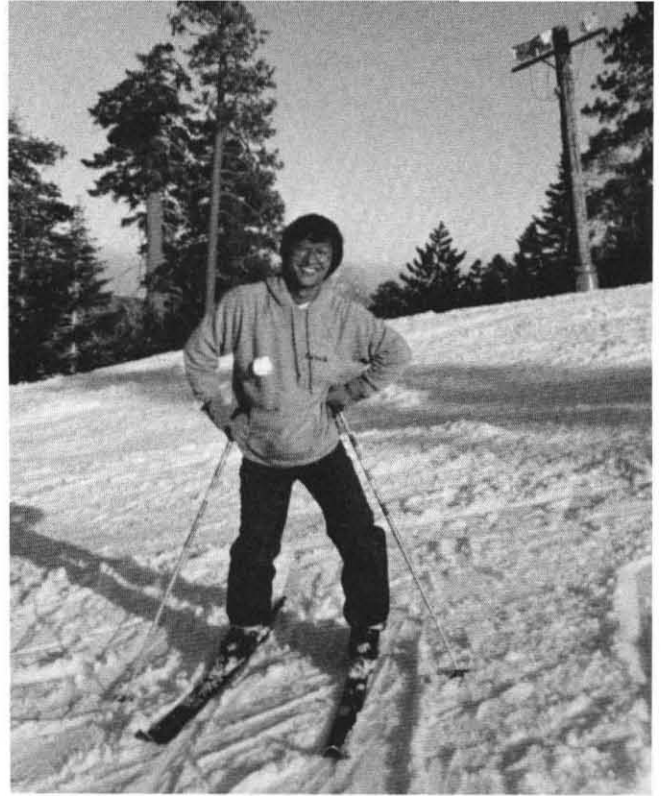




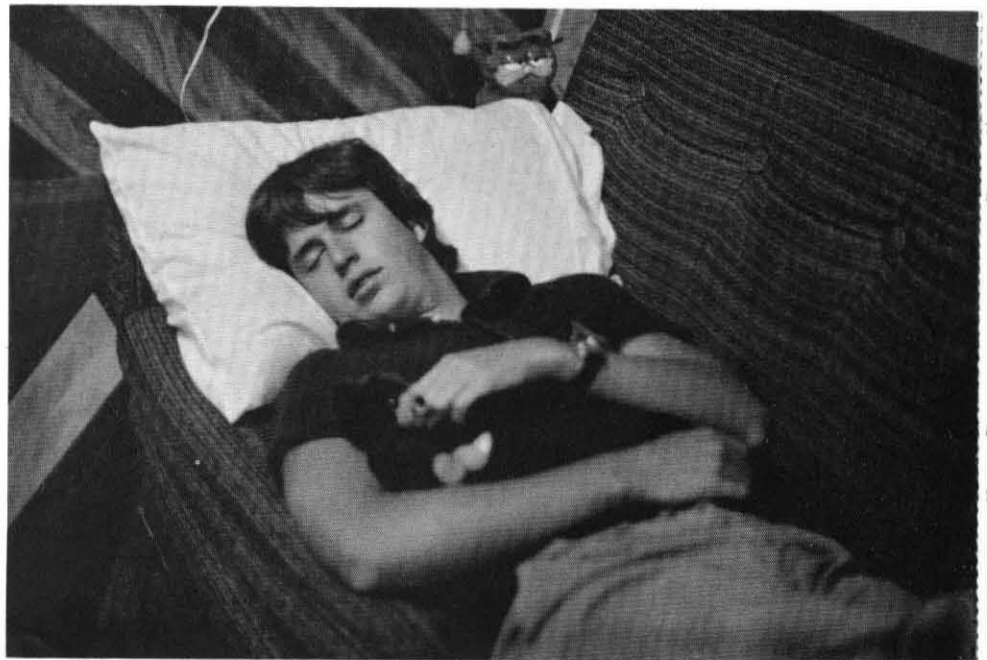


1. *Michael S. Weston*
Los Altos, California *Engineering*
2. *Leif Bennett*
Playa Del Rey, California *APh/Eng*
3. *Alex Leibovich*
San Jose, California *Engineering*
4. *Steve Knowles*
Gig Harbor, Washington *Engineering*
5. *Jim Scoby*
Park Ridge, Illinois *Engineering*
6. *Bruce Behymer (right)*
Hanover Park, Illinois *Engineering*



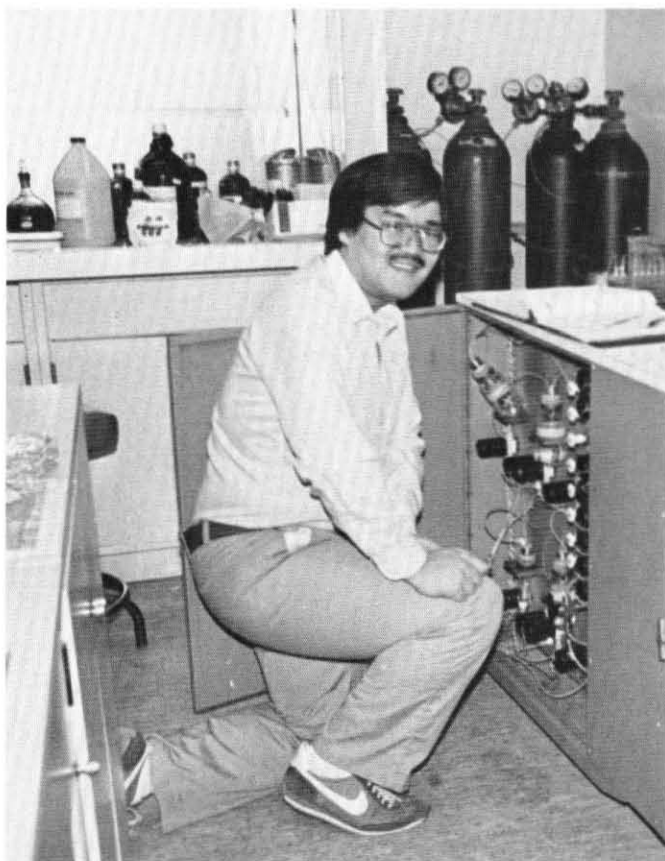


1. *Frederick Wieland*
Garden City, New York *Astronomy*
2. *Bruce Sams*
San Francisco, California *Astronomy*
3. *Mark Cornell*
Godfrey, Illinois *Astronomy*
4. *Eric Sinn*
Pasadena, California *Biology*
5. *Dean Shibata*
Westminster, California *Biology*
6. *Sung J. Yoo*
Bronx, New York *Biology*
7. *Paul Kienker*
Palatine, Illinois *Biology*





Money Maugling



4. Ramanuj Basu
Warminster, Pennsylvania Biology

5. Gary Tanigawa
Aiea, Hawaii Biology

6. Steven Chin
Wantagh, New York Biology

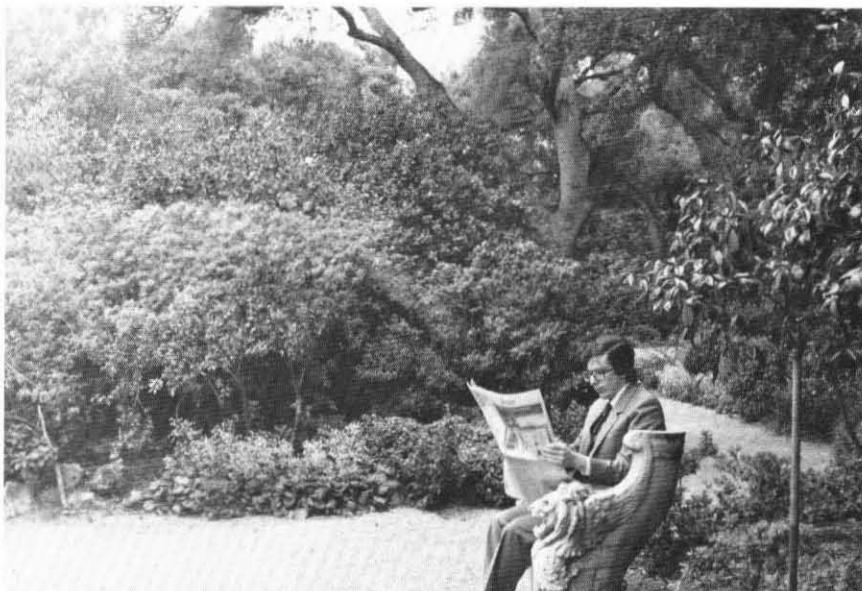
1. Gary Mockli
Lakewood, California Biology/Chemistry

2. Nancy Krehbiel
El Cajon, California Biology

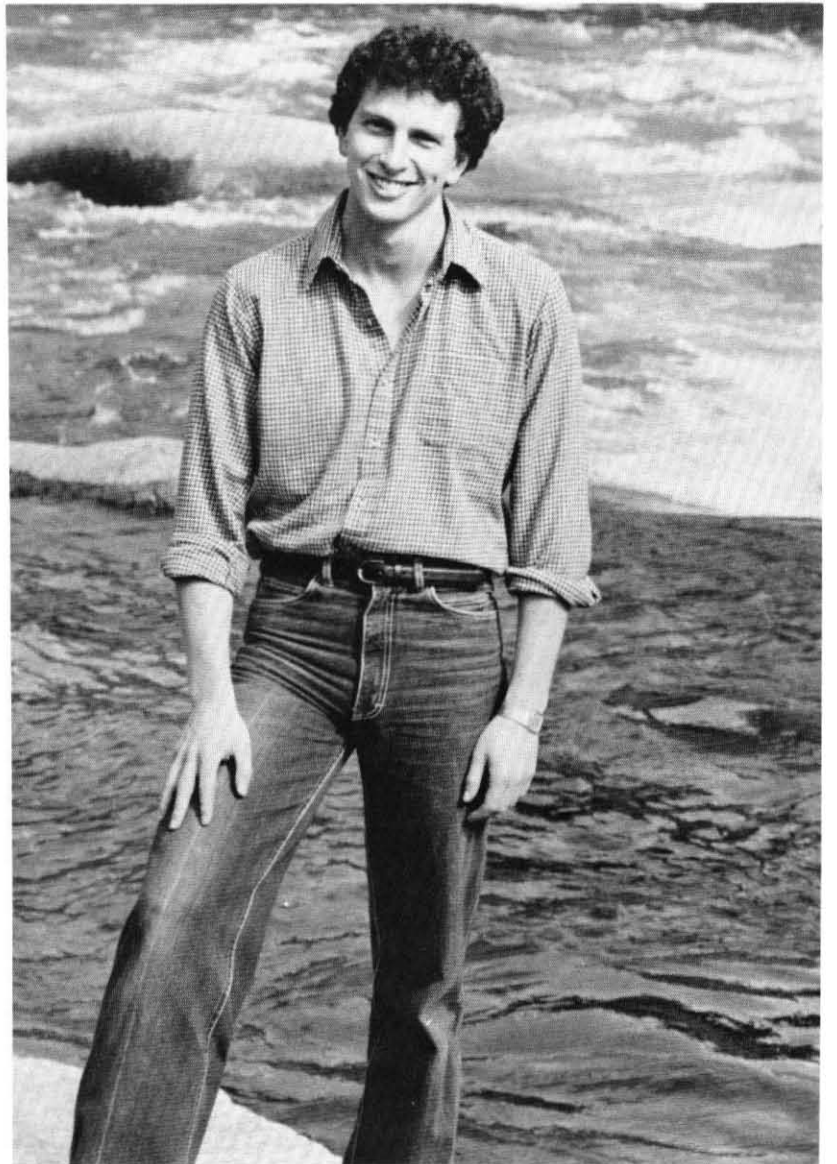
3. Joe McIntyre
Bellingham, Washington Biology/Engineering

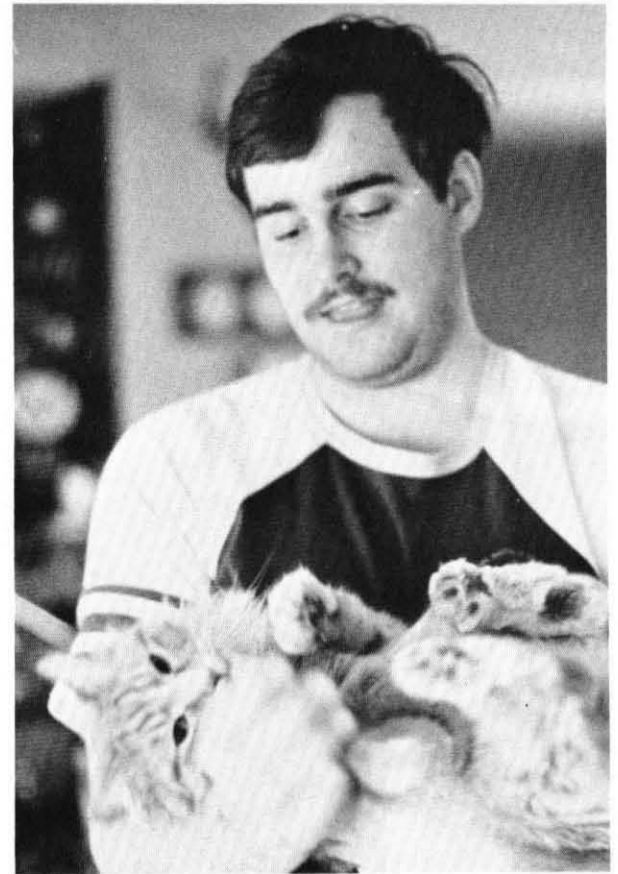
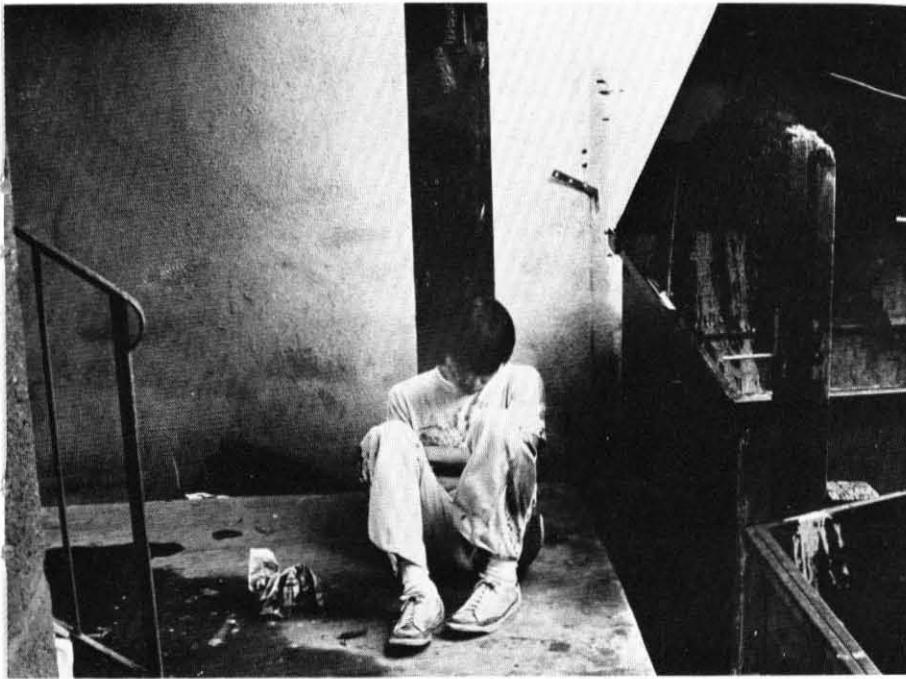
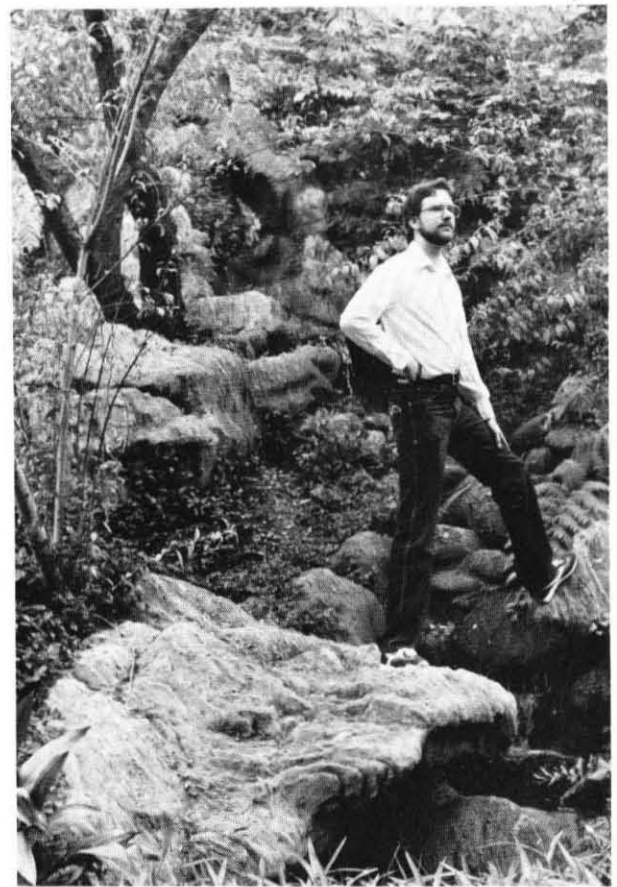
7. Glenn Nakamura
Sepulveda, California Biology/Chemistry





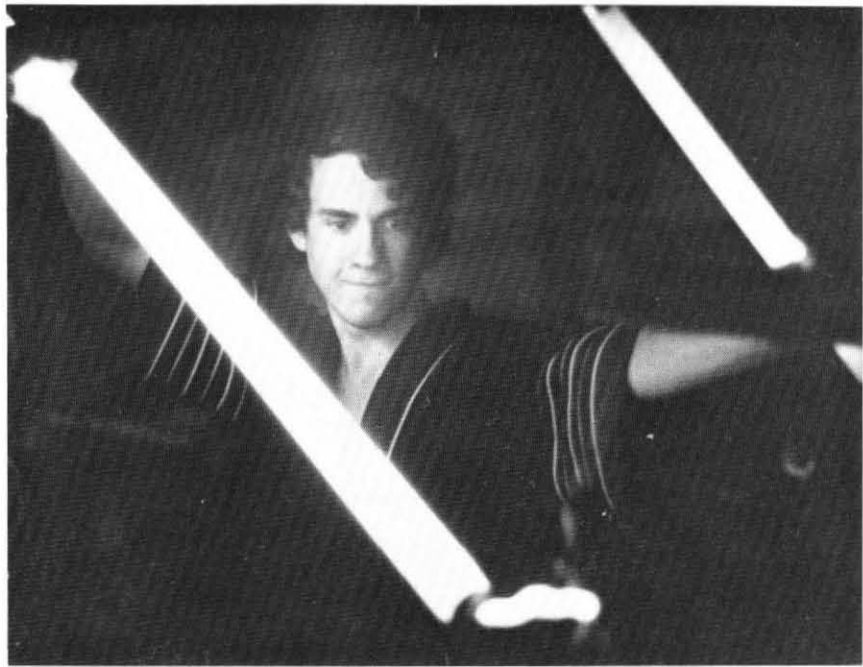
1. *Mark Warner Maier*
Los Angeles, California *Engineering*
2. *Virginia Konikowski Chan*
Southington, Connecticut *Applied Physics*
3. *Larry Gross*
Encino, California *Engineering*
4. *Graham Zaretsky*
Spring Valley, New York *Engineering*
5. *Elton Inada*
Honolulu, Hawaii *Engineering/Social Science*
6. *Jeremy Leader*
Princeton, New Jersey *Engineering*





1. *Sung Joon Kim*
Seoul, Korea *Electrical Engineering*
2. *Carlos Valencia*
Porterville, California *Electrical Engineering*
3. *Don Major*
Seattle, Washington *Electrical Engineering*
4. *Dale Chu*
Carson, California *Electrical Engineering*
5. *Russell Quong*
Palos Verdes, California *Electrical Engineering*
6. *Brian C. Richards*
Issaquah, Washington *Electrical Engineering*
7. *Jeff Berner*
Glendale, California *Electrical Engineering*



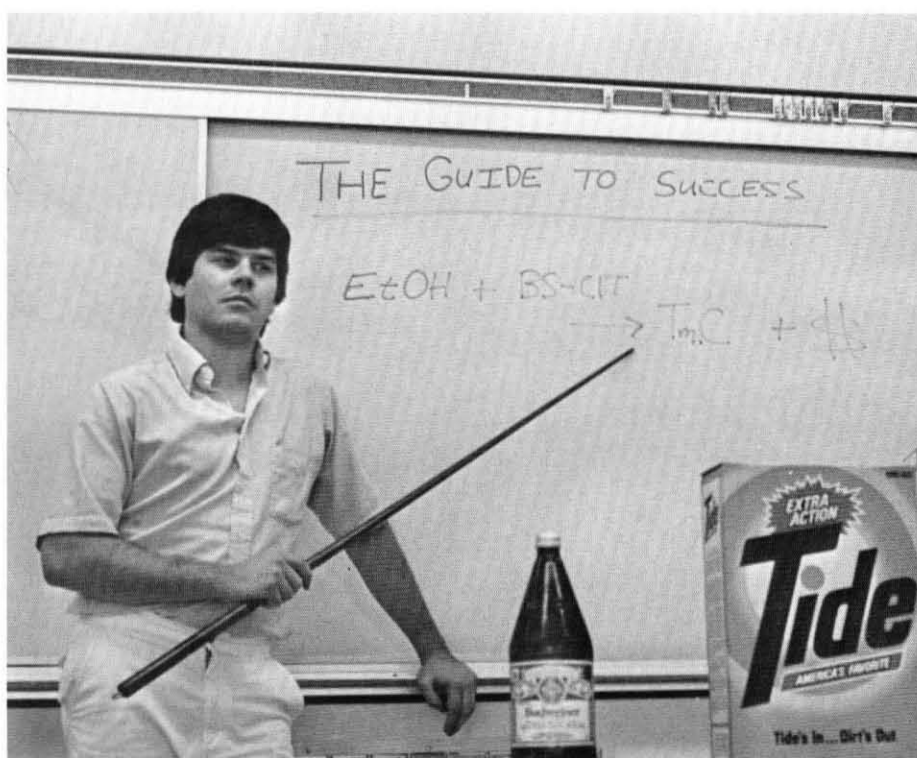


(Illuminating fluorescent tubes by drawing a 10cm arc from a 250000 volt Tesla coil—hence the expression)

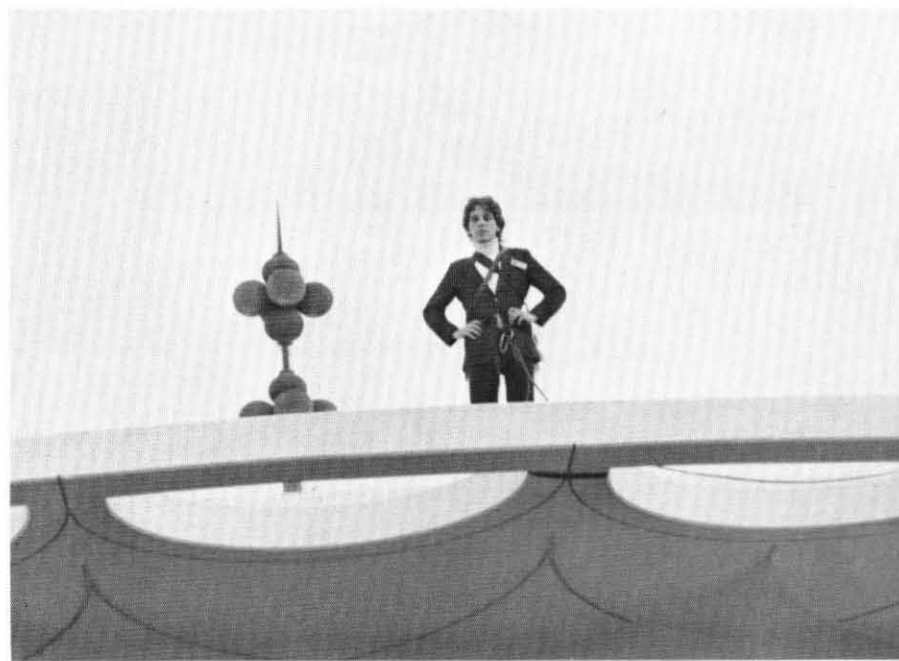
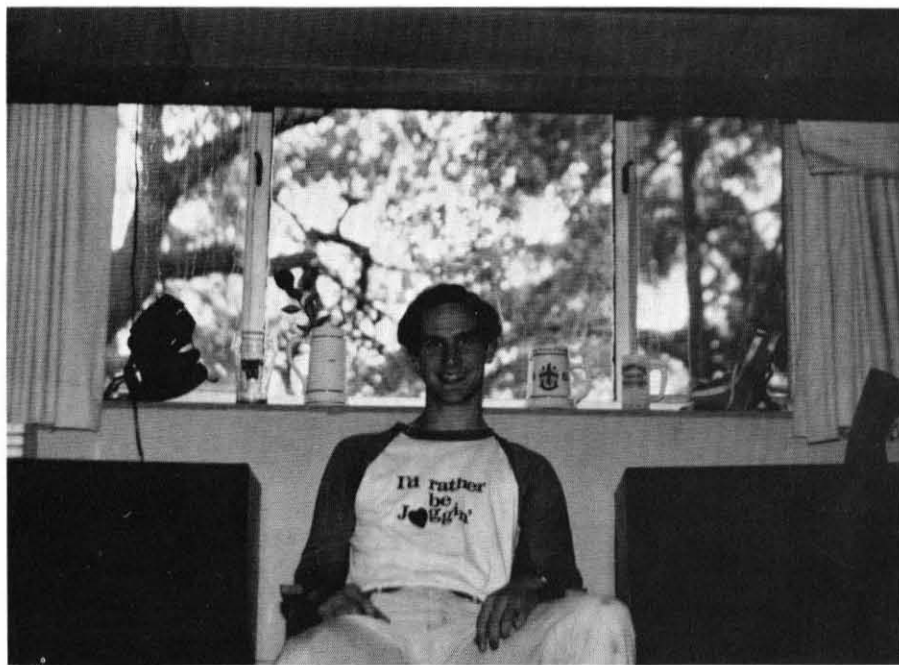
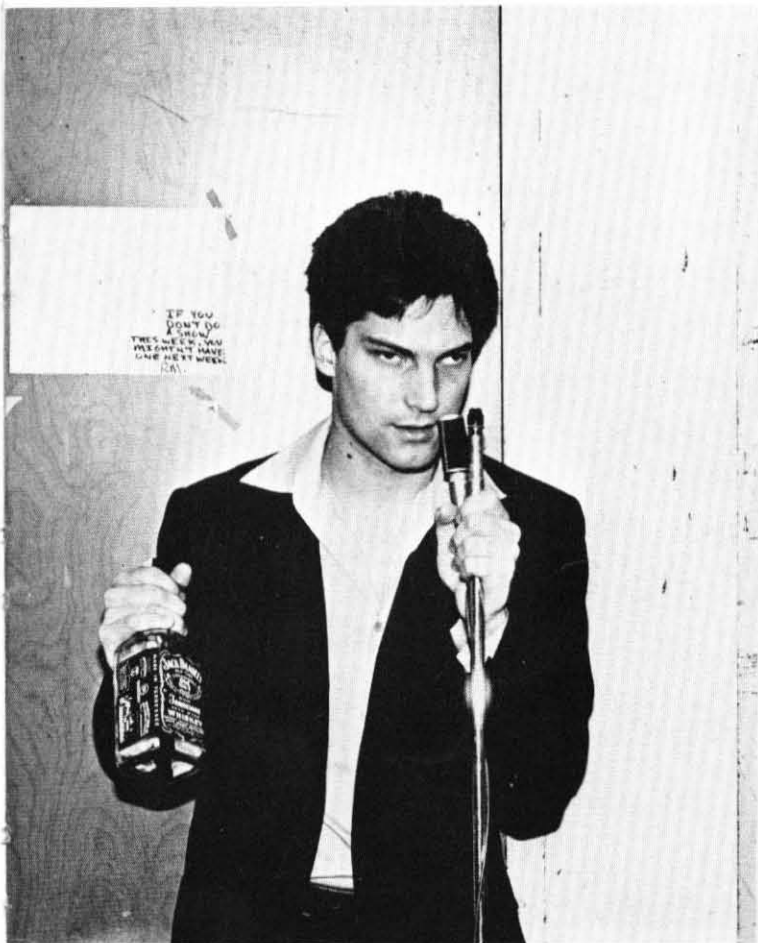


1. Tom Murphy
Dallas, Texas Physics
2. Chris Thompson
Winnipeg, Canada Physics
3. Andy Berkin
Encino, California Physics
4. Richard Miles
Bethesda, Maryland Physics

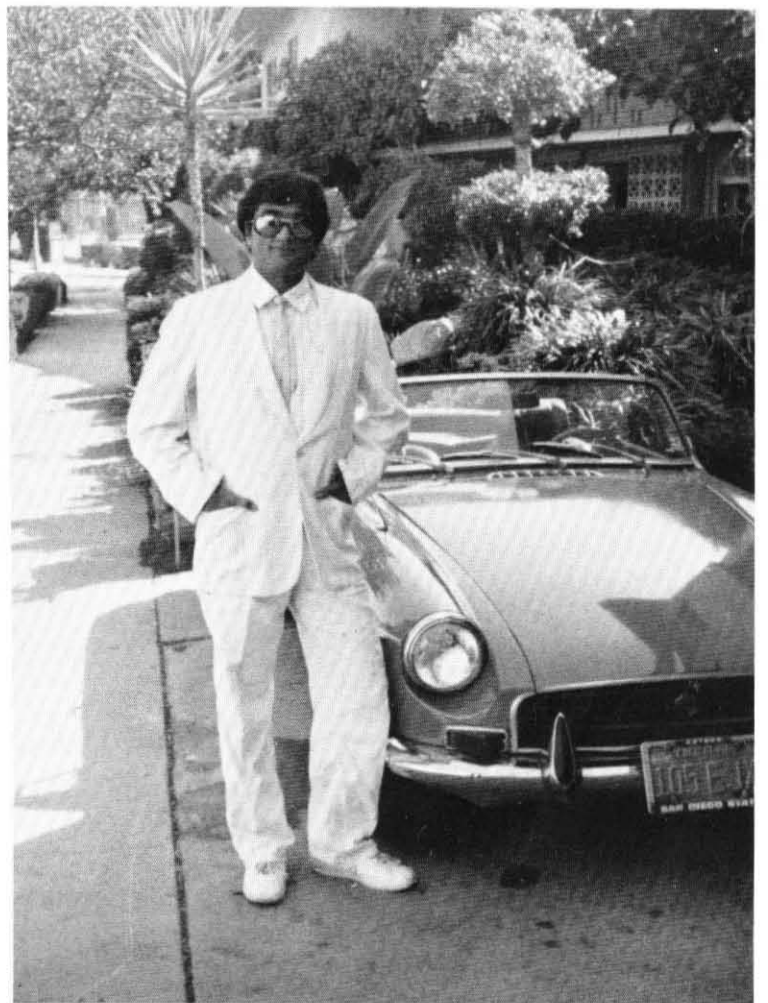
5. Jim Cummings
Pasadena, California Physics
6. R. Sekhar Chivukula
Lincoln, Nebraska Physics/Applied
Mathematics
7. Richard W. Pogge
Ridgecrest, California Physics

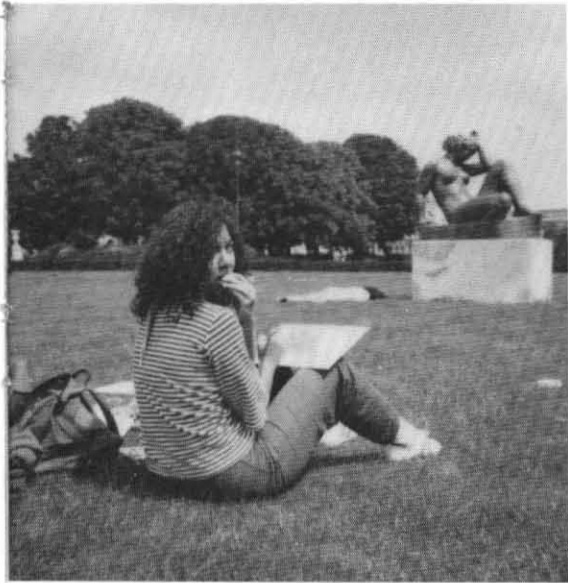
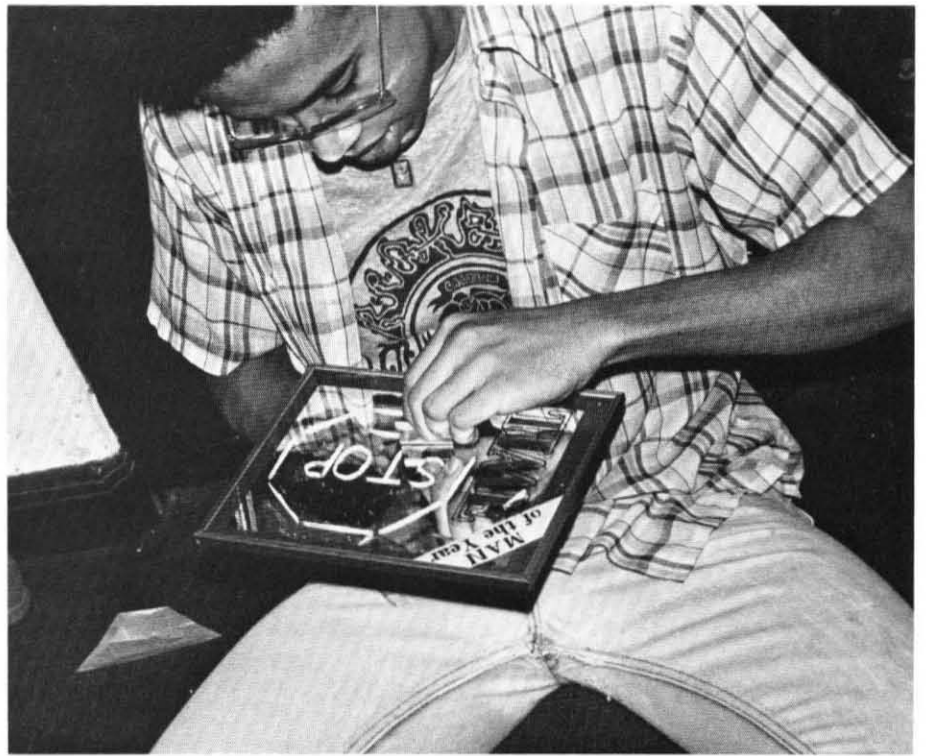


TmC is the active ingredient of Tide (Proctor & Gamble)



1. *Chi Fong*
Los Angeles, California *Chemical Engineering*
2. *Tony Conneally*
Lombard, Illinois *Chemical Engineering*
3. *Thelma Nunez*
Tucson, Arizona *Chemical Engineering*
4. *Greg Sayles*
El Sobrante, California *Chemical Engineering*
5. *Thomas R. Sim*
Eugene, Oregon *Chemical Engineering*
6. *Arthur Fortini*
Bronx, New York *Chemistry/Chemical Engineering*



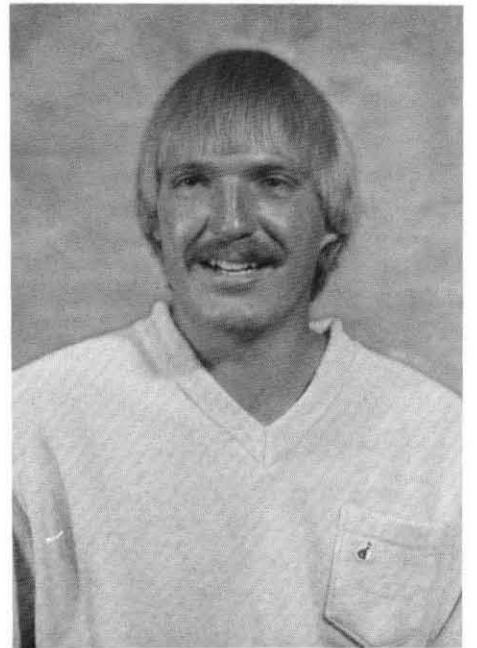
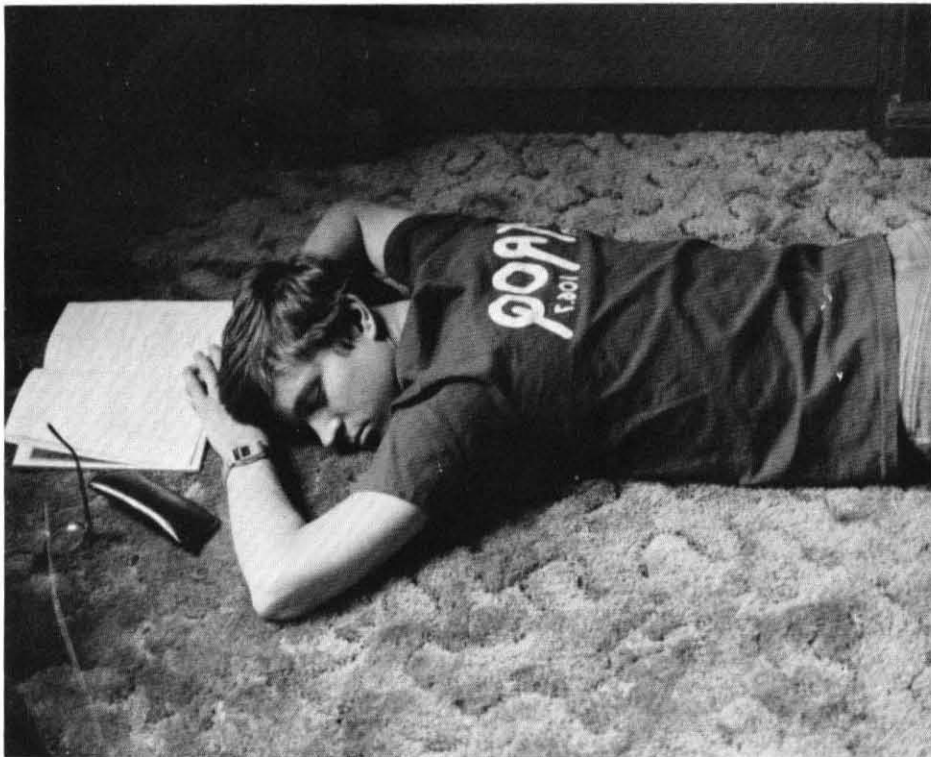
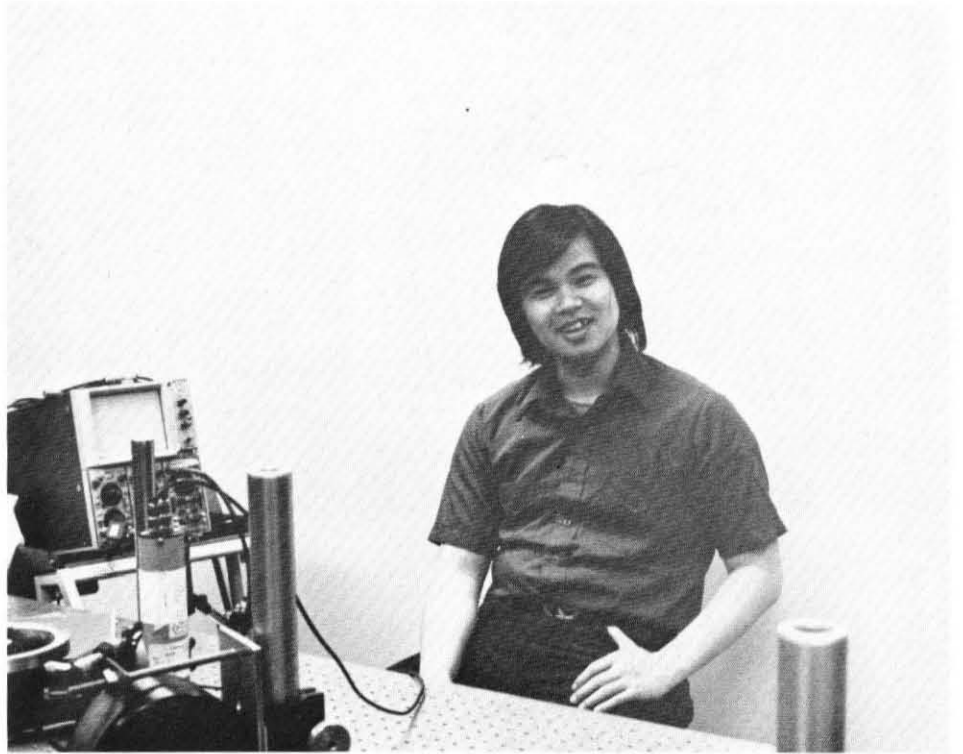


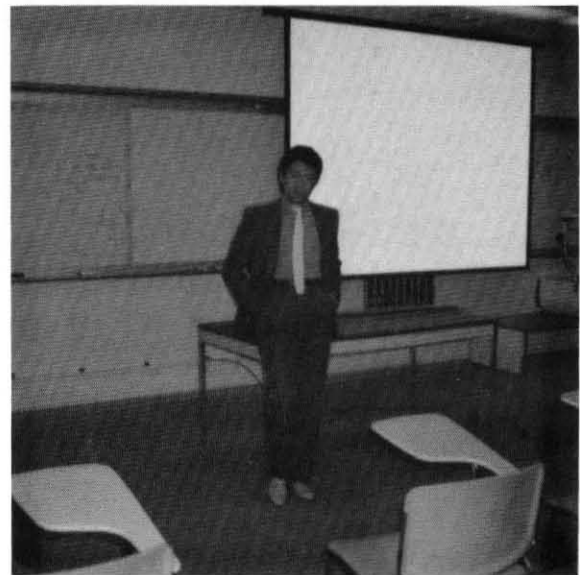
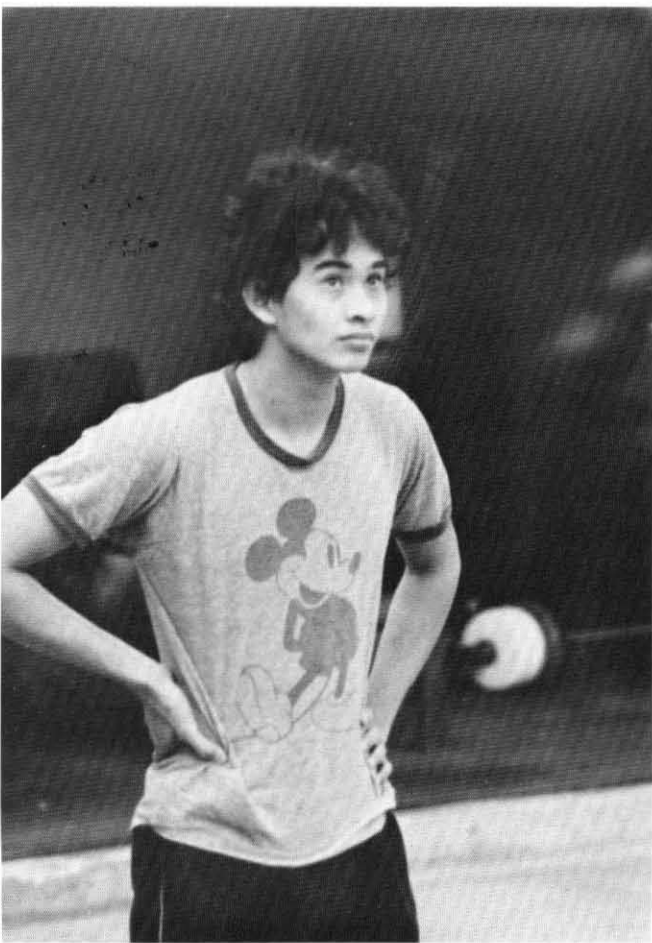
Incorrect

Correct

Great art requires a full frontal approach.

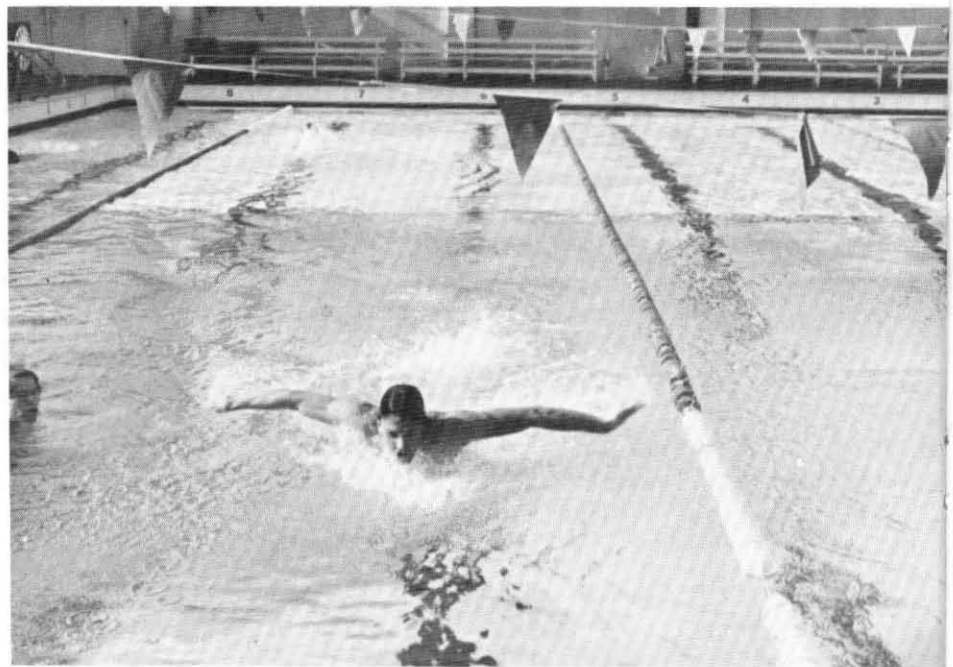
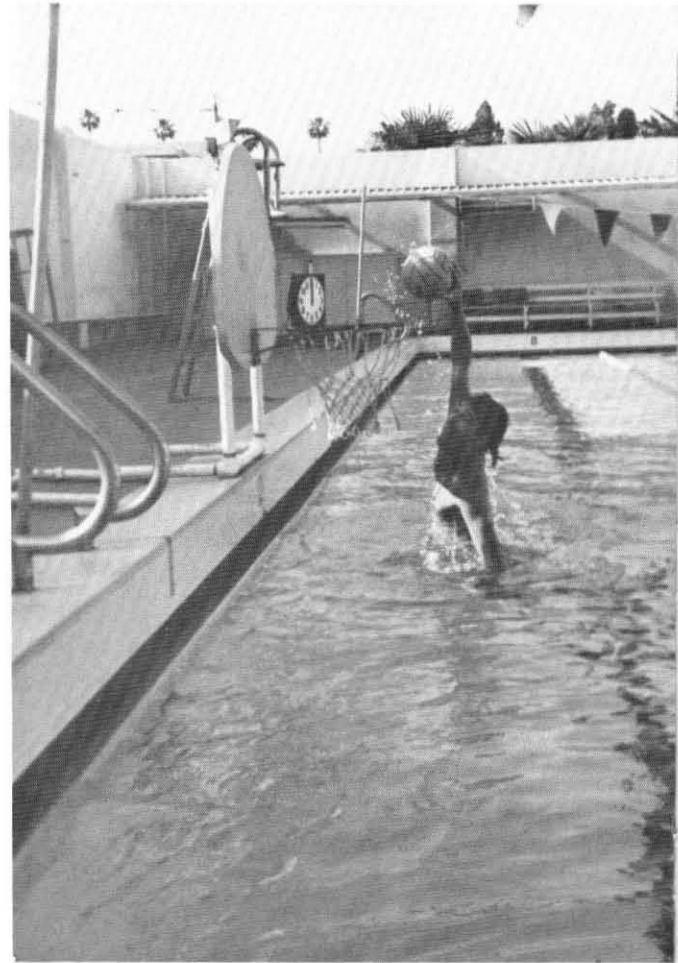
1. *Russell Almond* *Maple Glen, Pennsylvania* *Mathematics*
2. *Rod Morison* *Huntington Beach, California* *Applied Mathematics*
3. *Vivek Joshi* *Grand Forks, North Dakota* *Mathematics*
4. *Camilla Van Voorhees* *Larkspur, California* *Literature*
5. *Dave Younge* *San Jose, California* *Mathematics*
(At last, justice—eds.)
6. *Sandra Tsing Loh at the Tuilleries* *Malibu, California* *Physics/Literature*

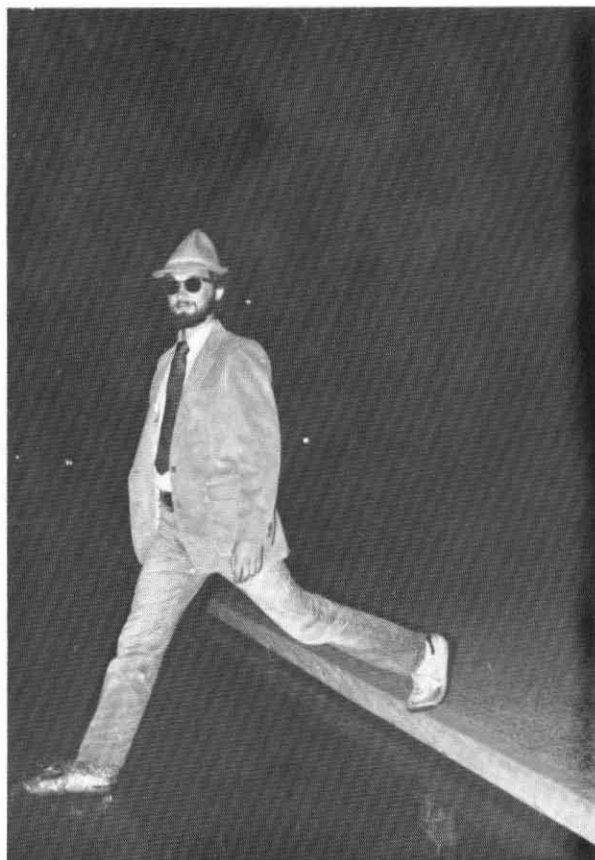
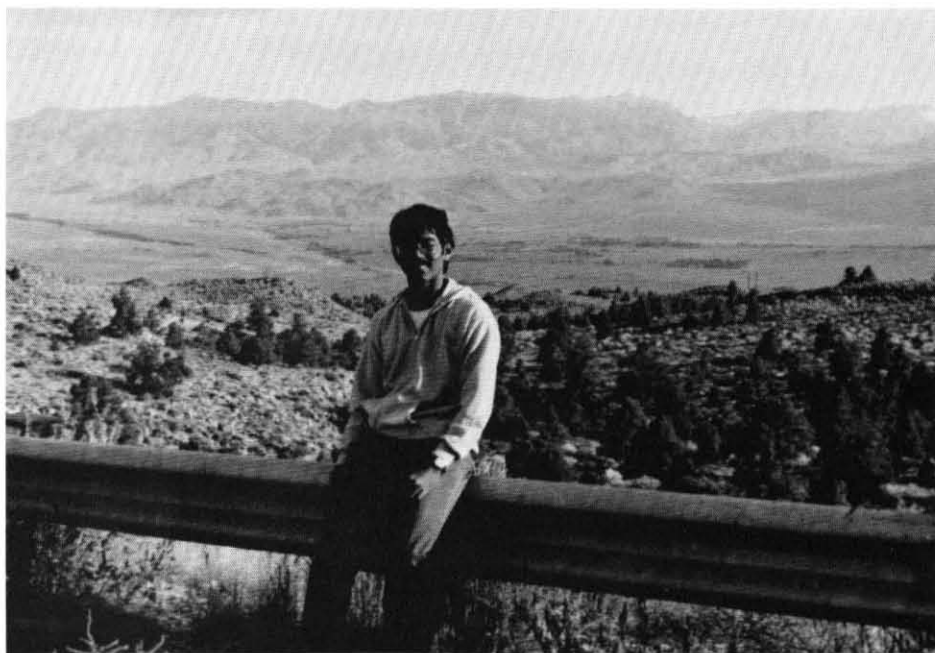
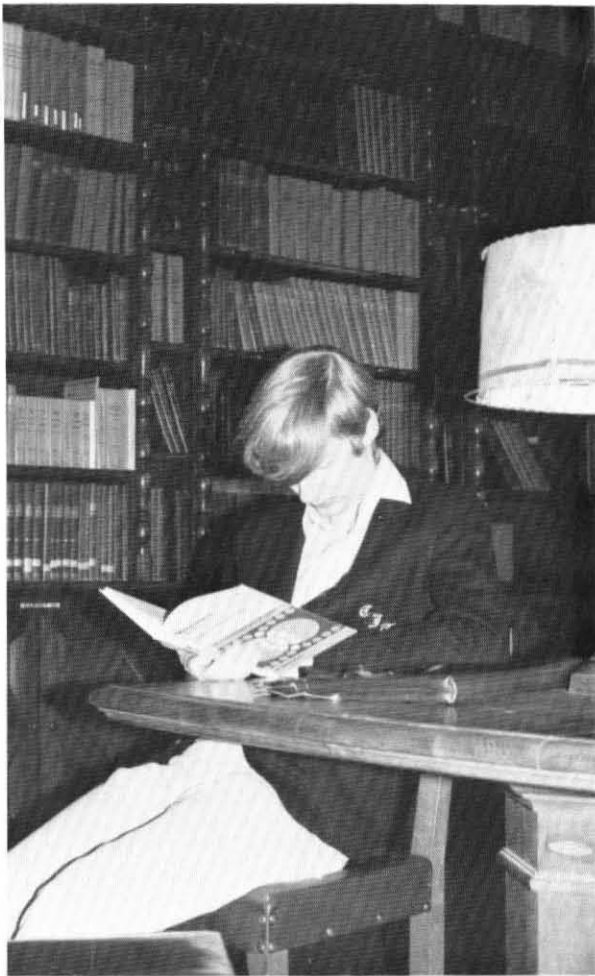




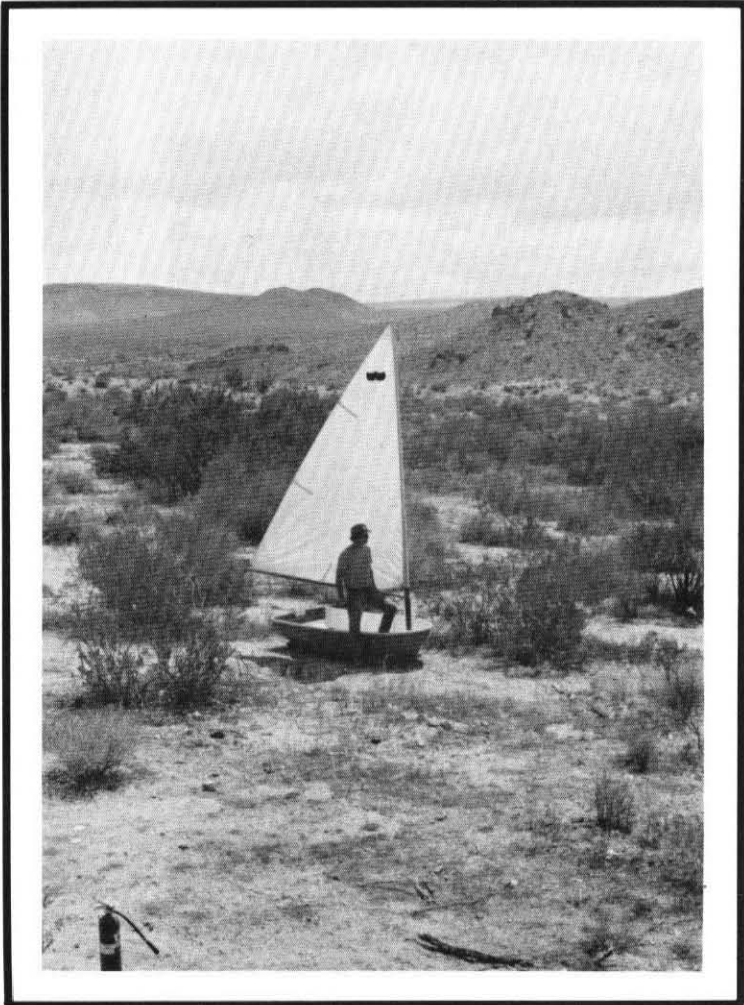
- 1. Jeffrey Yu
Dallas, Texas *Electrical Engineering*
- 2. James Allen Anderson
Sepulveda, California *Electrical Engineering*
- 3. Paul A. Johnson
Rock Springs, Wyoming *Electrical Engineering*

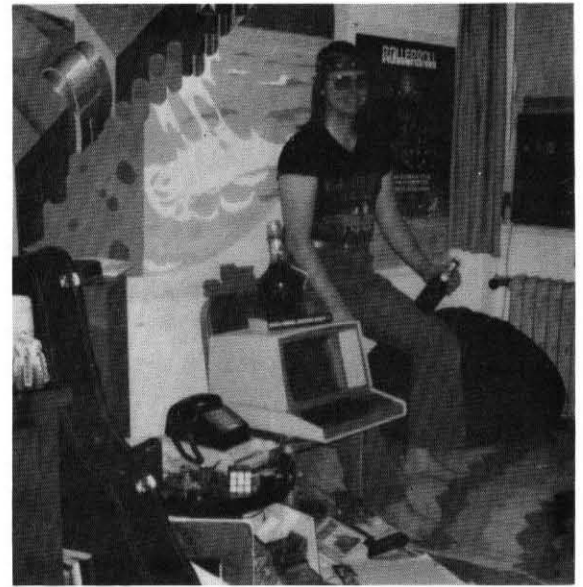
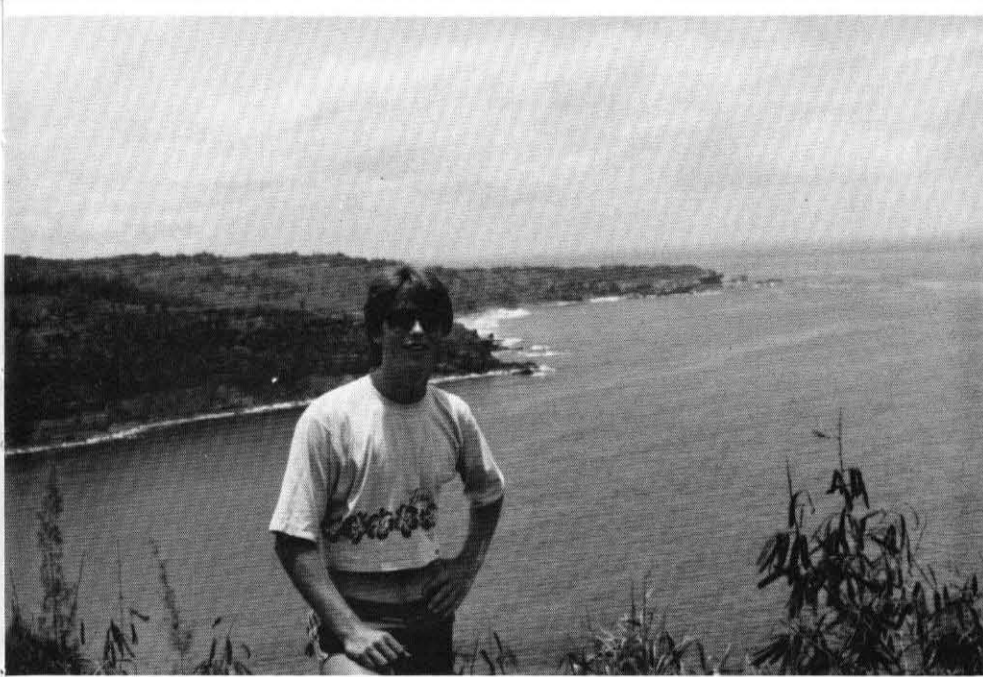
- 4. Thiti Vejpas
Bangkok, Thailand *Electrical Engineering*
- 5. John Y. Wang
Chicago, Illinois *Electrical Engineering*
- 6. Jay Rickard
Arlington, Texas *Electrical Engineering*
- 7. Kenneth Ting-Yuan Kung
San Francisco, California *Electrical Engineering*



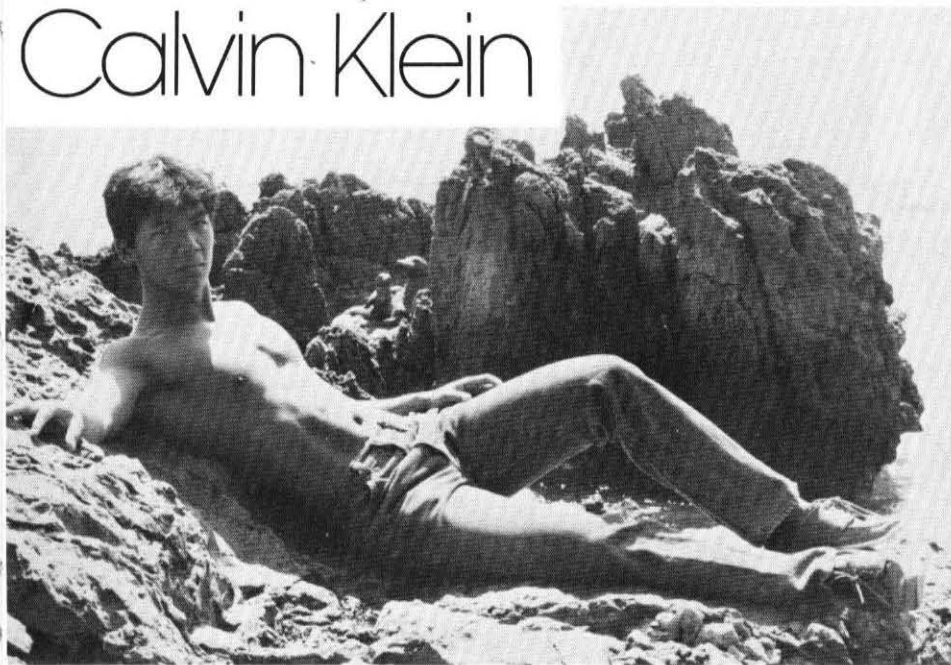


1. *Ming-Chung Chu*
Hong Kong Physics
2. *Greg Schenter*
Richland, Washington Physics
3. *Bjorn Matthias*
Berlin, Germany Physics
4. *John A. Behr*
Woodlake, California Physics
5. *Walt Wuensch*
Clinton, New York Physics
6. *Brent Stuart*
Walnut Creek, California Physics
7. *Vipul Periwal*
New Delhi, India Physics/Mathematics





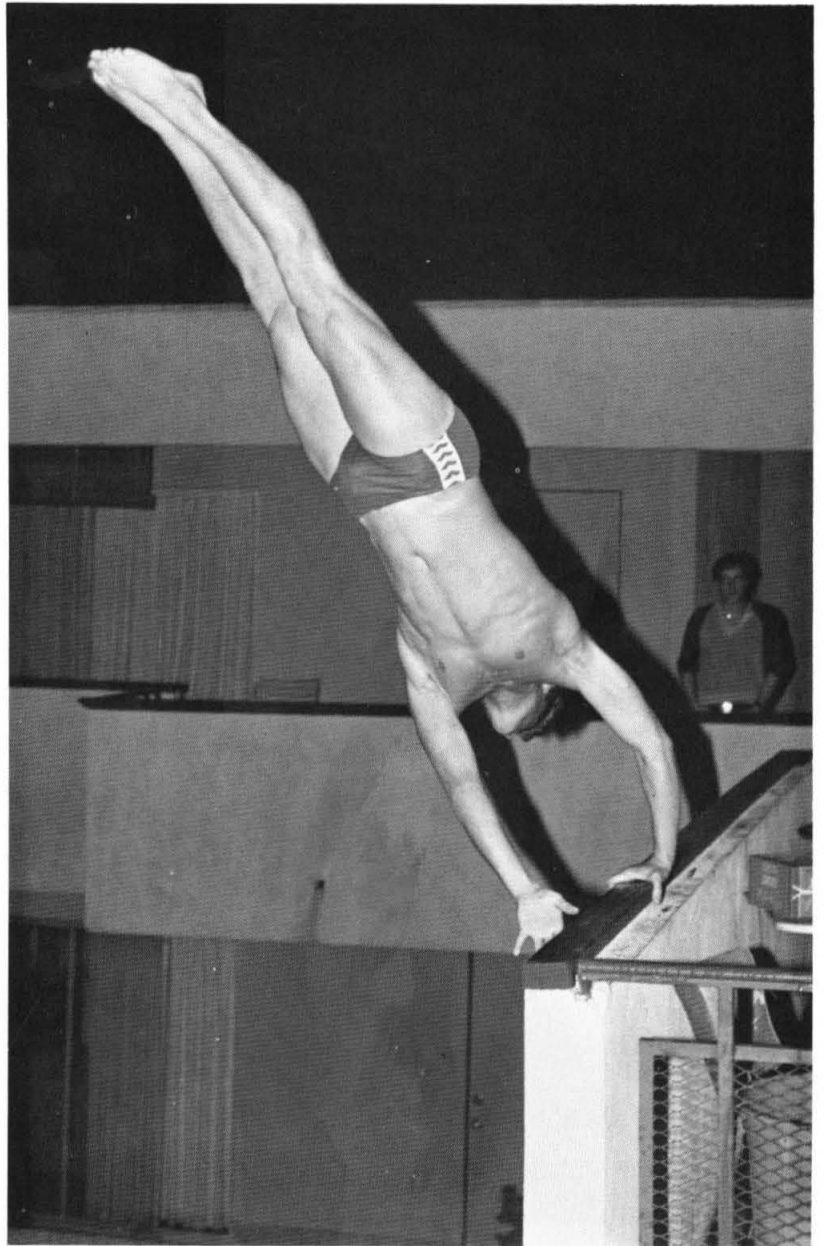
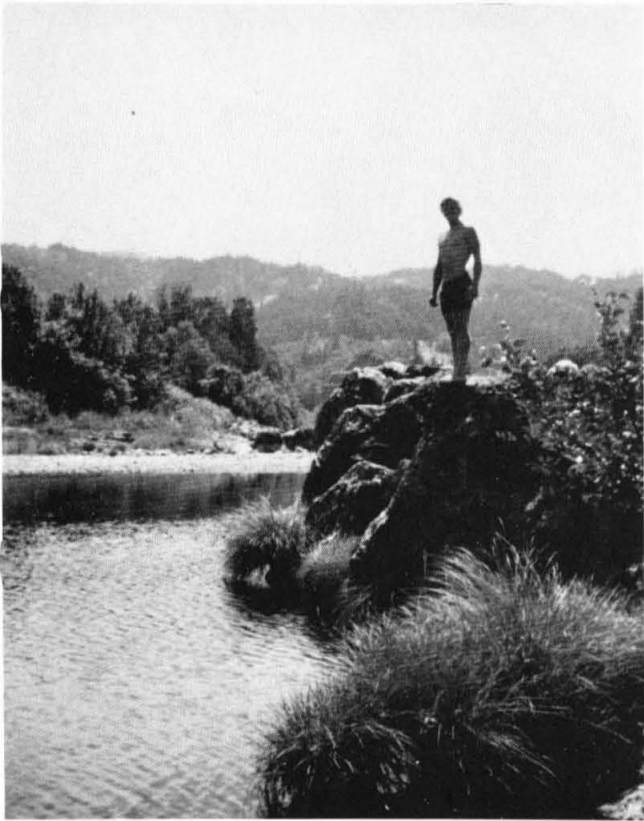
Calvin Klein

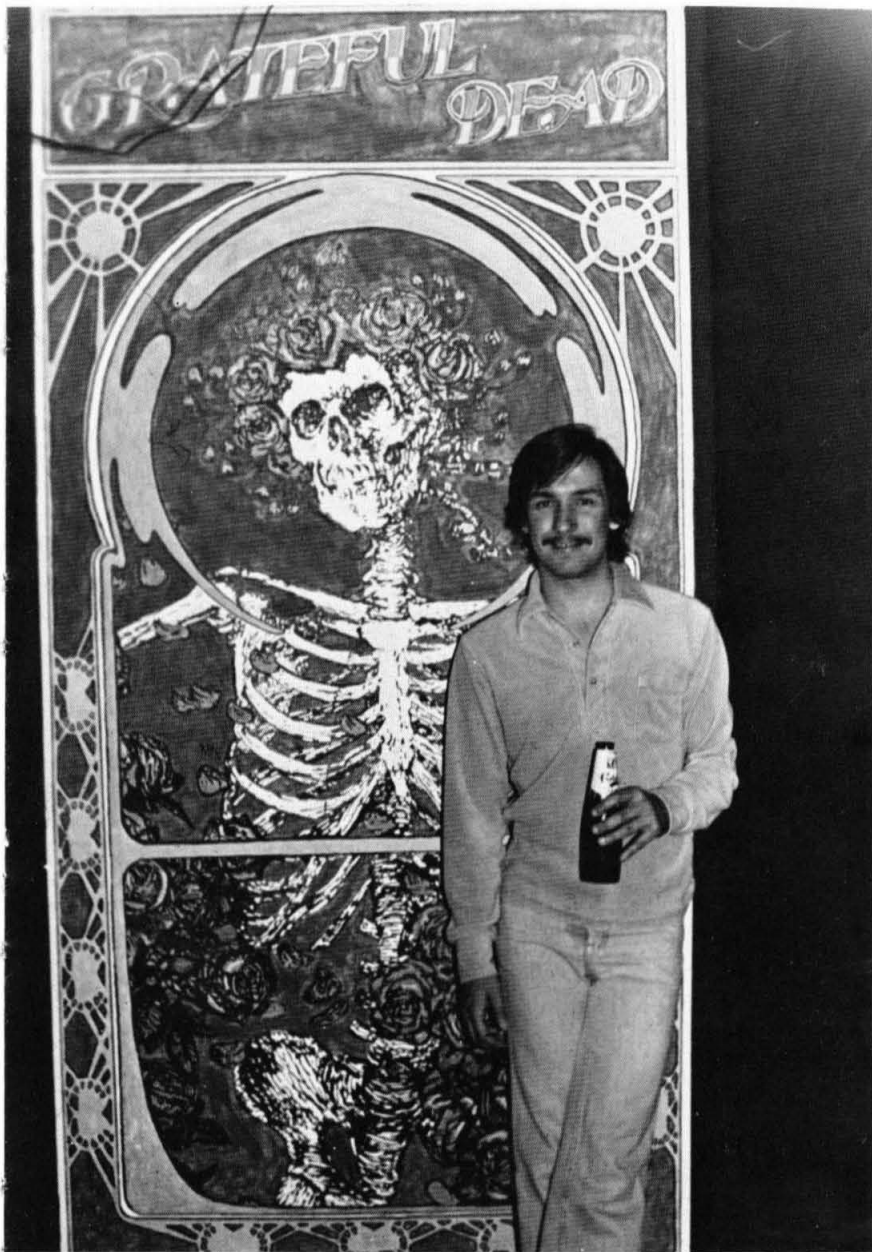


1. *Duke Briscoe*
Athens, Georgia *Engineering*
2. *Greg Houssman*
Torrance, California *Engineering*
3. *Dave Durham*
Albuquerque, New Mexico *Engineering*
4. *Dan Leonski*
Los Angeles, California *Electrical Engineering*
5. *Tze Kin Ip*
Houston, Texas *Engineering*
6. *Risto "Sam" Sjogren*
Los Angeles, California *Engineering*
7. *Charlie Strauss*
Seattle, Washington *Electrical Engineering*

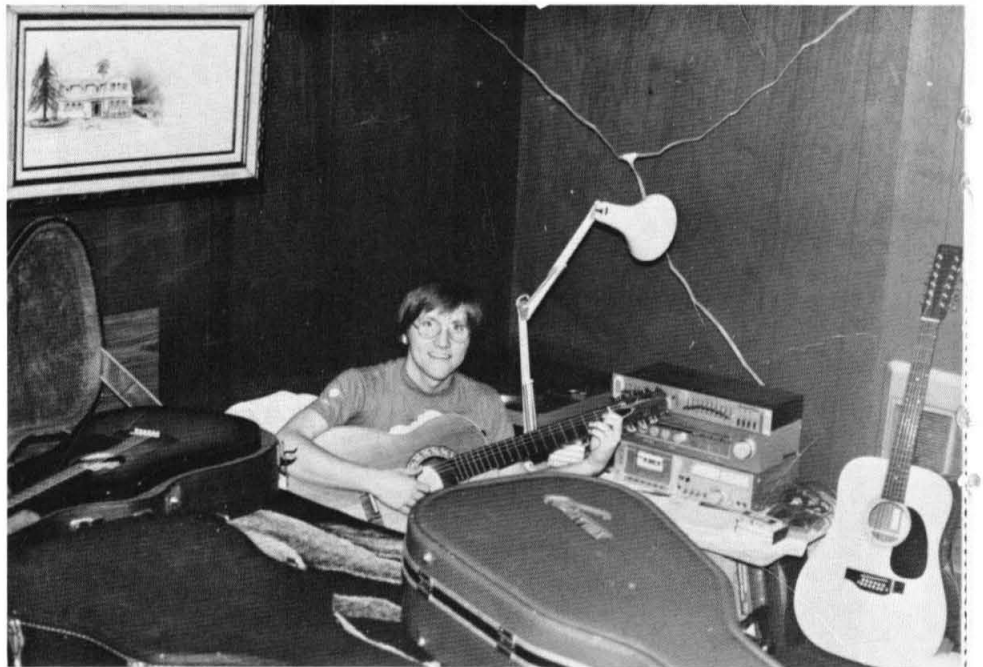
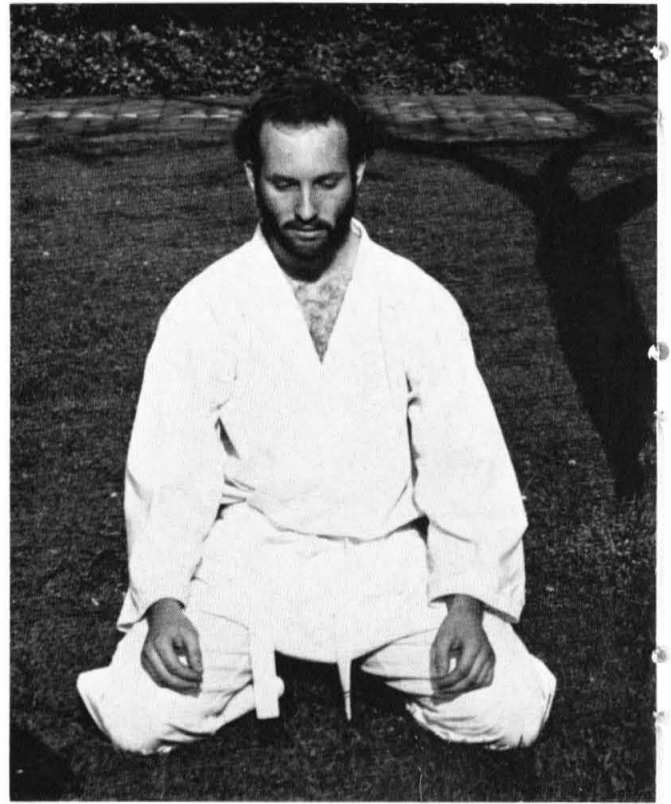
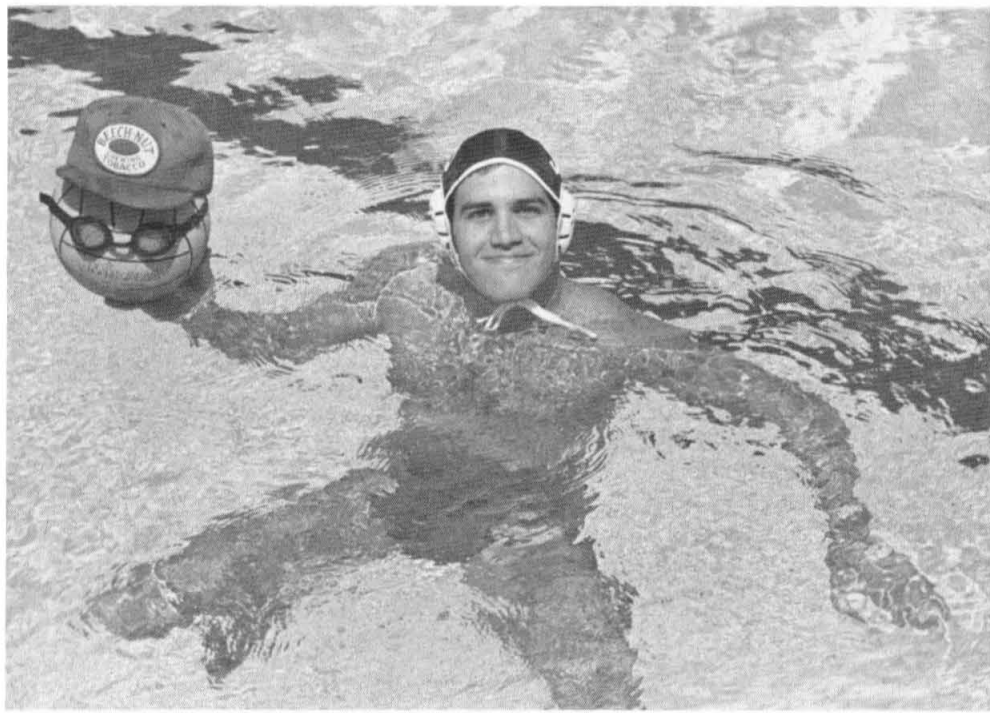


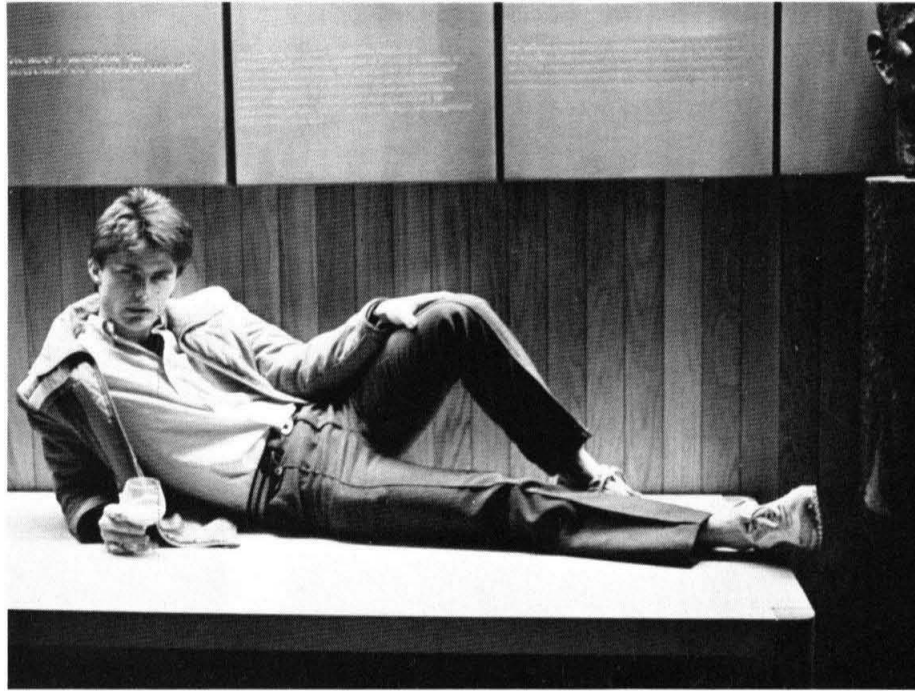
"My mug shot."





1. Daniel K. Jew Bell Gardens, California Engineering
2. Chris McKinnon Great Falls, Montana Chemical Engineering
3. Russel "Rusty" Schweickart Sacramento, California Engineering
4. Alan Dellamore Ogden, Utah Aeronautical Engineering/Mechanical Engineering
5. Noemi de la Puente Monterey Park, California Environmental Engineering
6. Gloria Badilla Union City, California Civil Engineering





1. Bill Polson (right)
 Saginaw, Michigan Applied Physics
 Skip Shot (left)
 Lexington (VA), Budapest, Los Angeles AqG

2. Barret Lippey
 San Jose, California Applied Physics

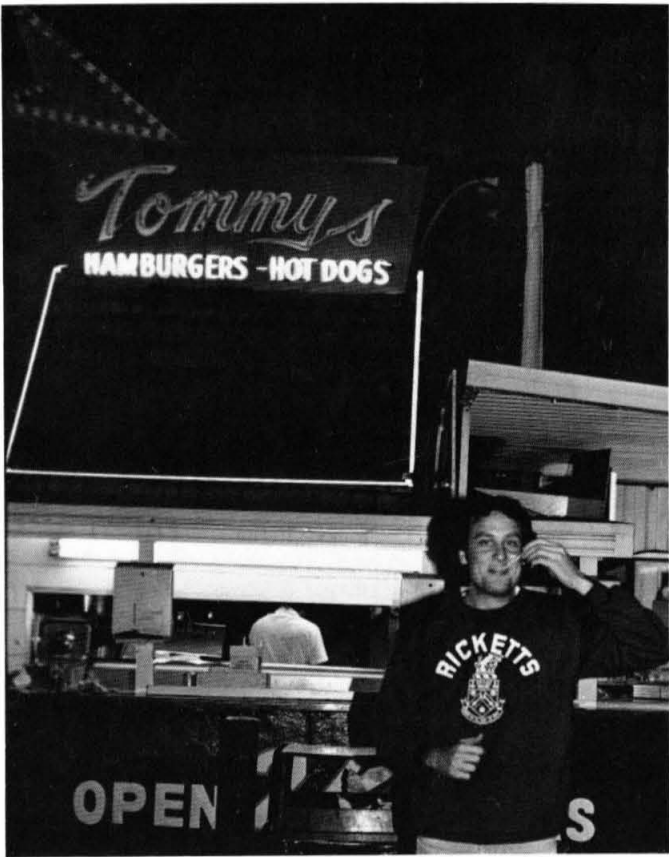
3. Scott Sperling
 Tustin, California Applied Physics

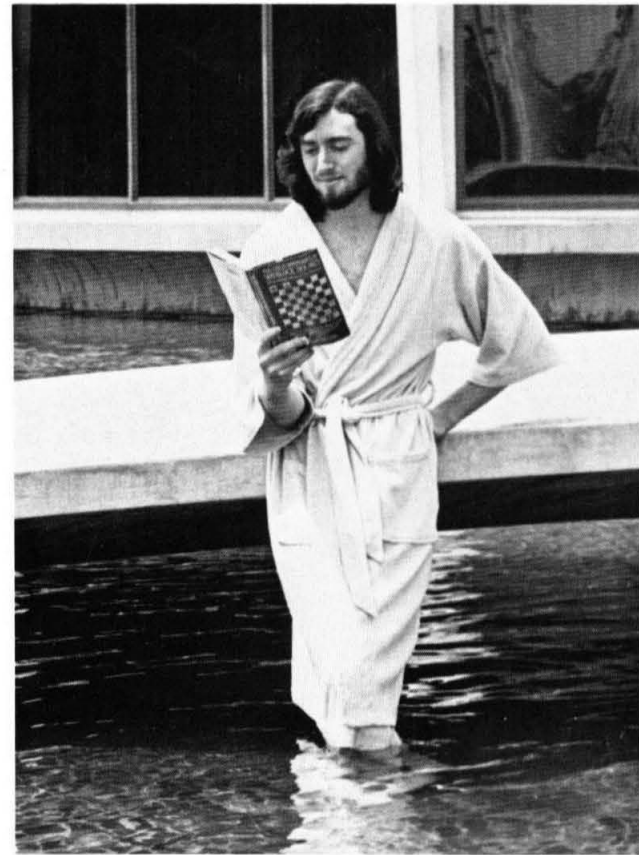
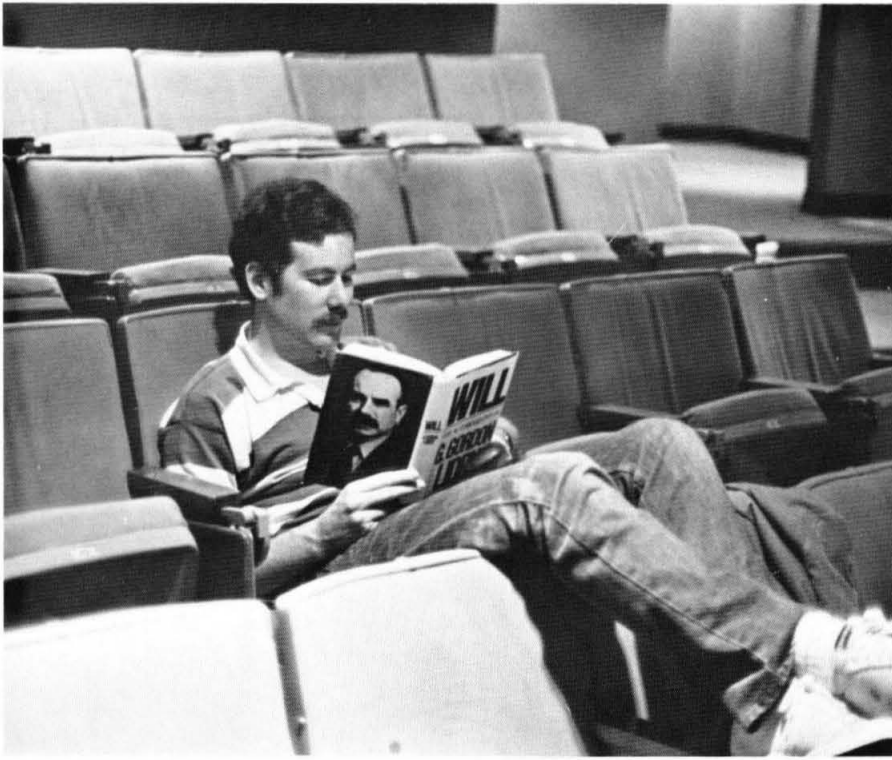
4. Chris Jacobs
 Cincinnati, Ohio Applied Physics

5. Jim Dewitt
 Santa Monica, California Physics

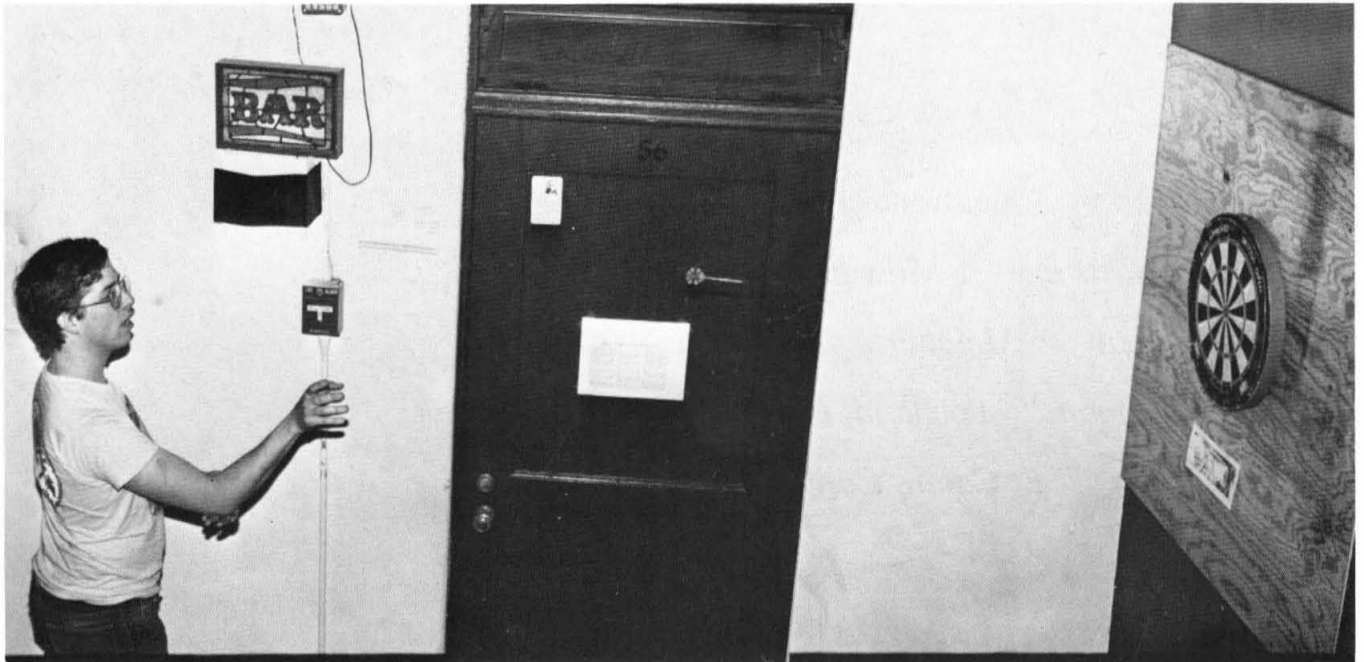
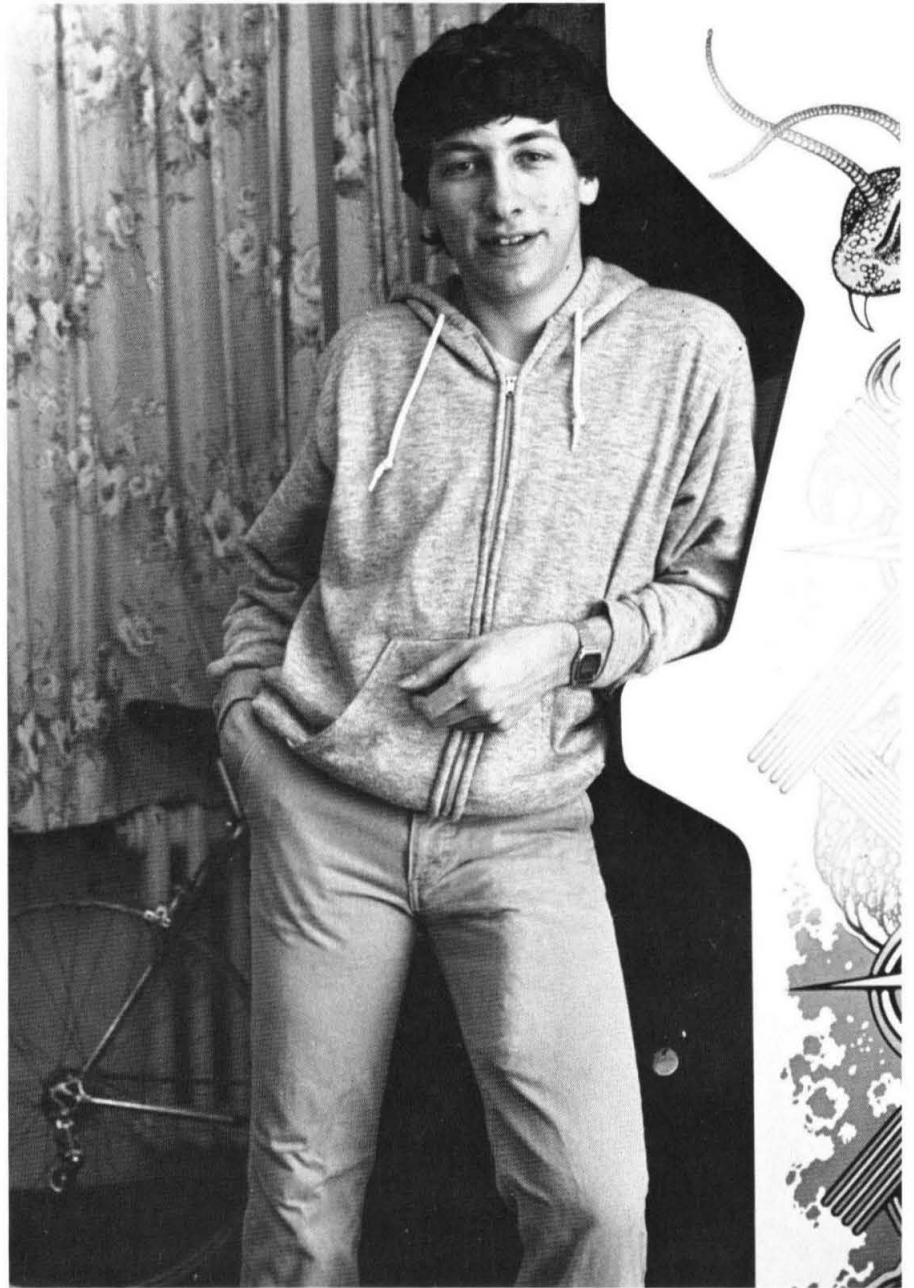
6. Ed Miles
 Oxnard, California Applied Physics

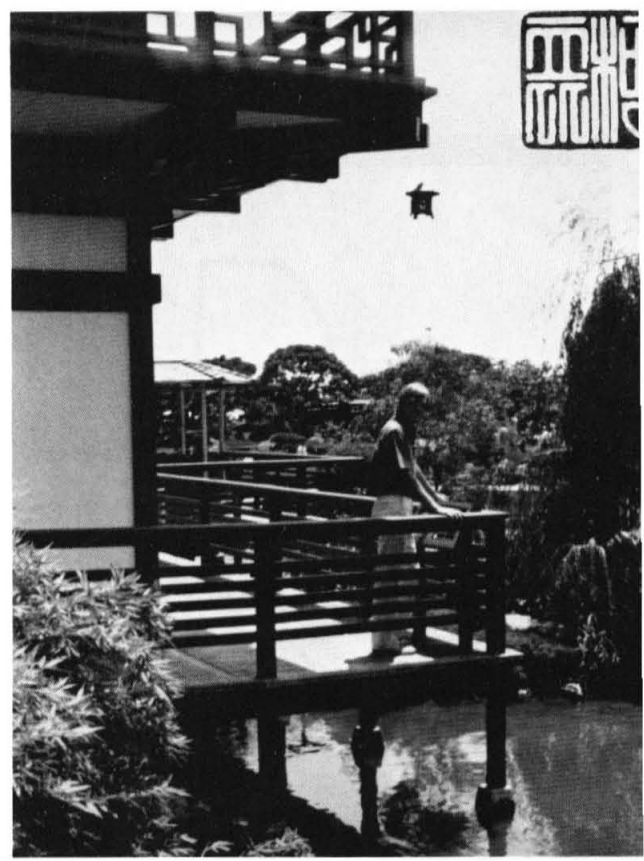






1. *Dave Schultz* *Sepulveda, California* *Economics*
2. *Arthur Paul Brazy* *Milwaukee, Wisconsin* *Economics*
3. *Bill Chapman* *Melbourne, Australia* *Computer Science*
4. *Drew Cushman* *Portland, Oregon* *Applied Physics*
5. *Brian Leahy* *El Cajon, California* *Computer Science*





1. *Lee Hasiuk*
Philadelphia, Pennsylvania
Engineering
2. *Dan Dickerson*
Pasadena, California
Engineering
3. *John Souder*
Edwards, California
Mechanical Engineering
4. *Jahn Dyvik*
New City, New York
Engineering
5. *Mike Kilby*
Bethesda, Maryland
Mechanical Engineering



1. *Rebecca Sheets*
Wentzville, Missouri
Biology
(and Kibor—thanks to Animal
Actors of Hollywood)

2. *Beverly Ann Robertson*
Whitehorse, Yukon
Engineering

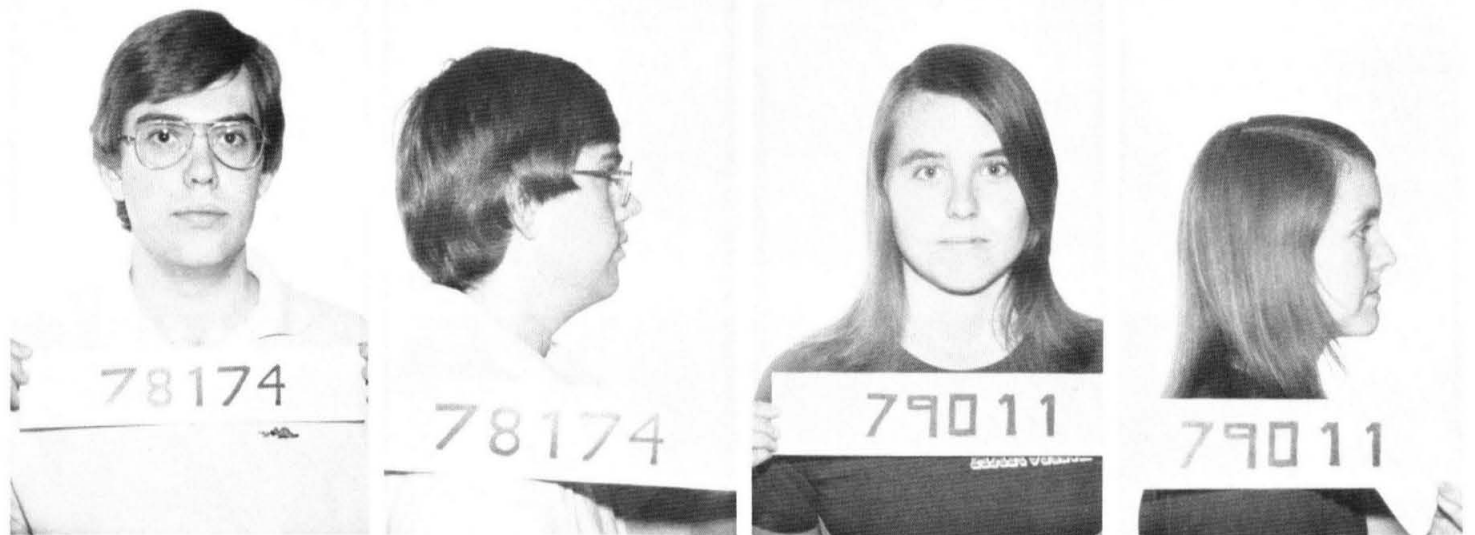
3. *Derek Straub*
Littleton, Colorado
Chemistry

Julie Anderson
Pasadena, California
Chemistry



WANTED

HAROLD & MILDRED



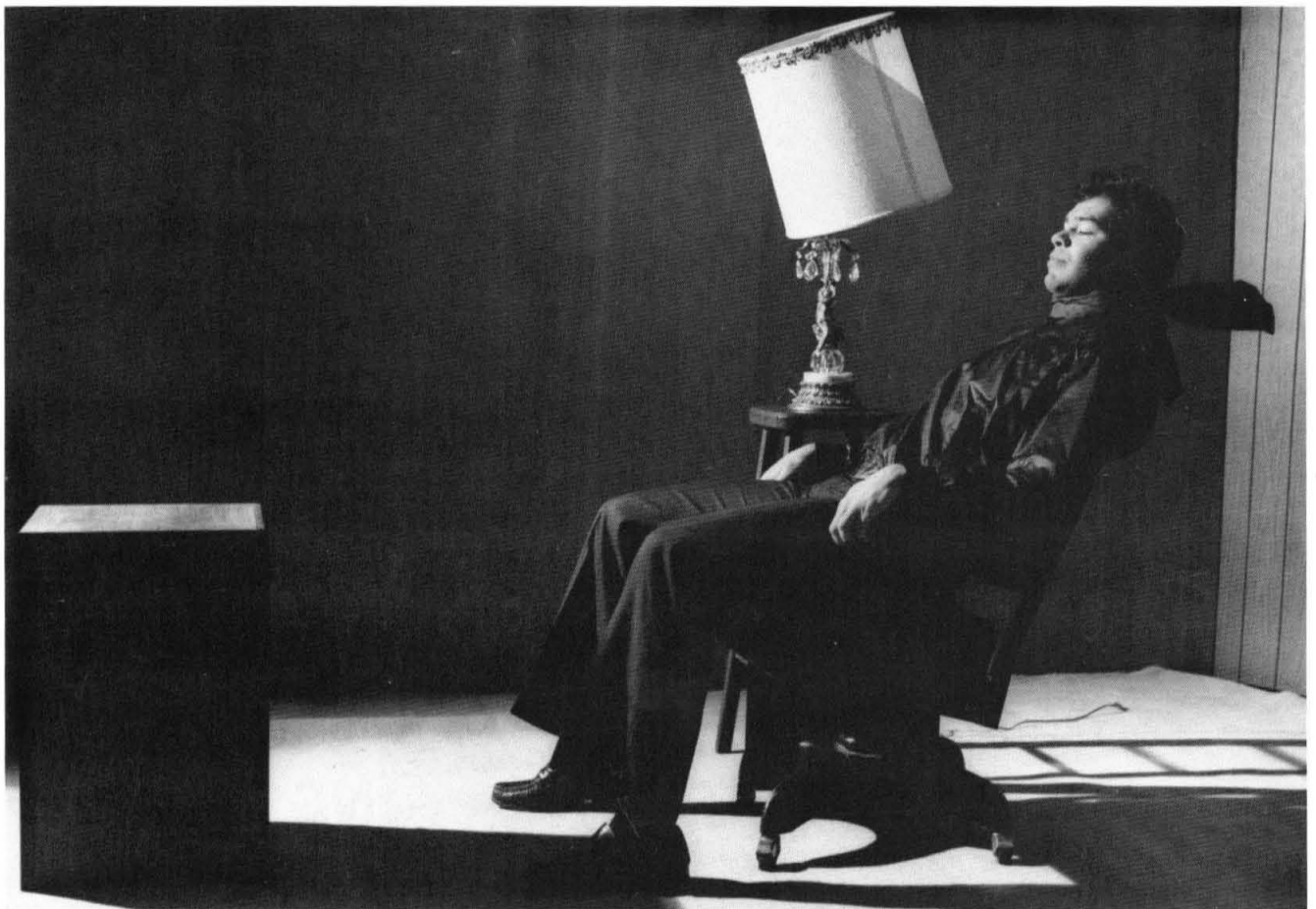
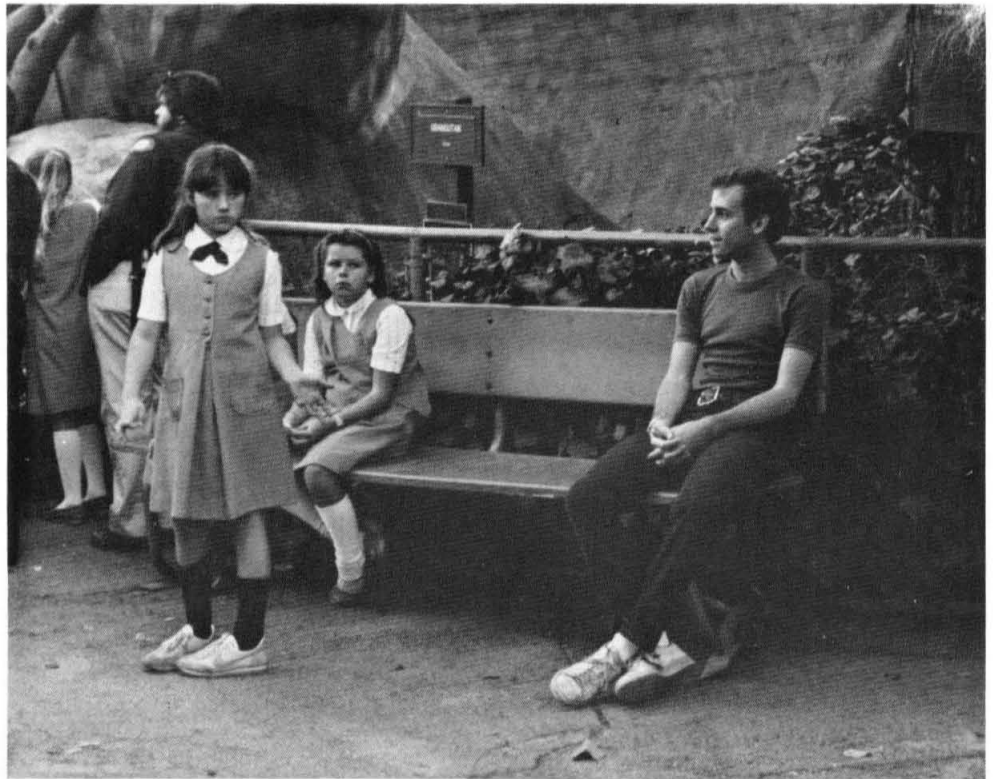
**RECENTLY ESCAPED FROM THE
CALIFORNIA INSTITUTE OF TECHNOLOGY**

**ARMED WITH THE TRUTH
LAST SEEN HOPPING EAST**

1. *Kevin Hughes*
Fair Oaks, California
Mechanical Engineering

2. *Luis Monsalve*
Los Angeles, California
Engineering

3. *Maclen B. Marvit*
Swampscott, Massachusetts
Physics





1. *Howell Johnson*
Seattle, Washington
Engineering

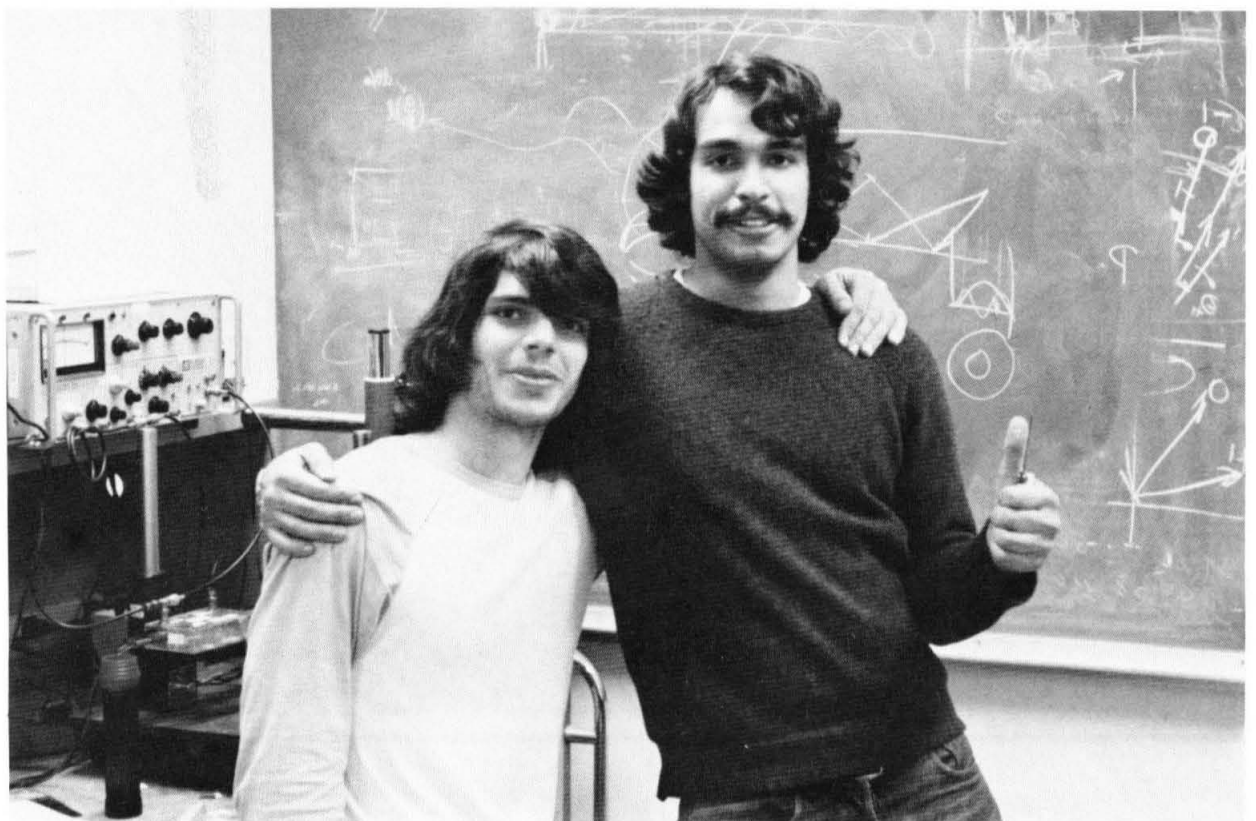
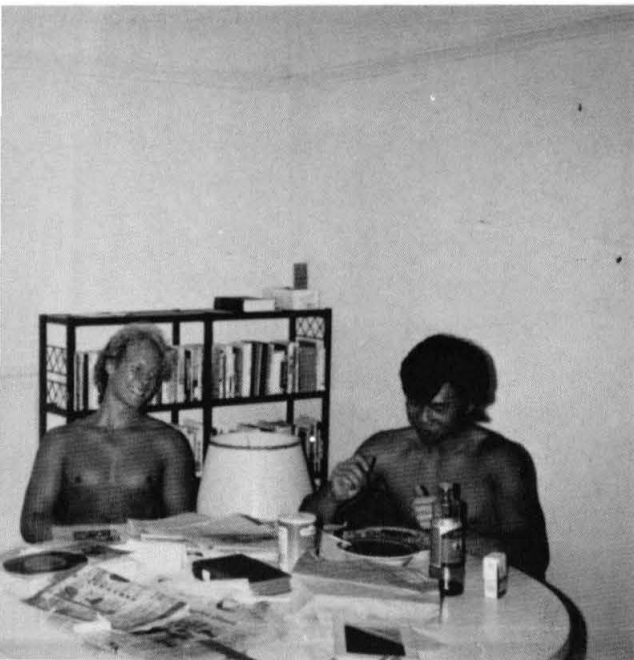
2. *Cynthia Shaver*
Sierra Vista, Arizona
Environmental Engineering

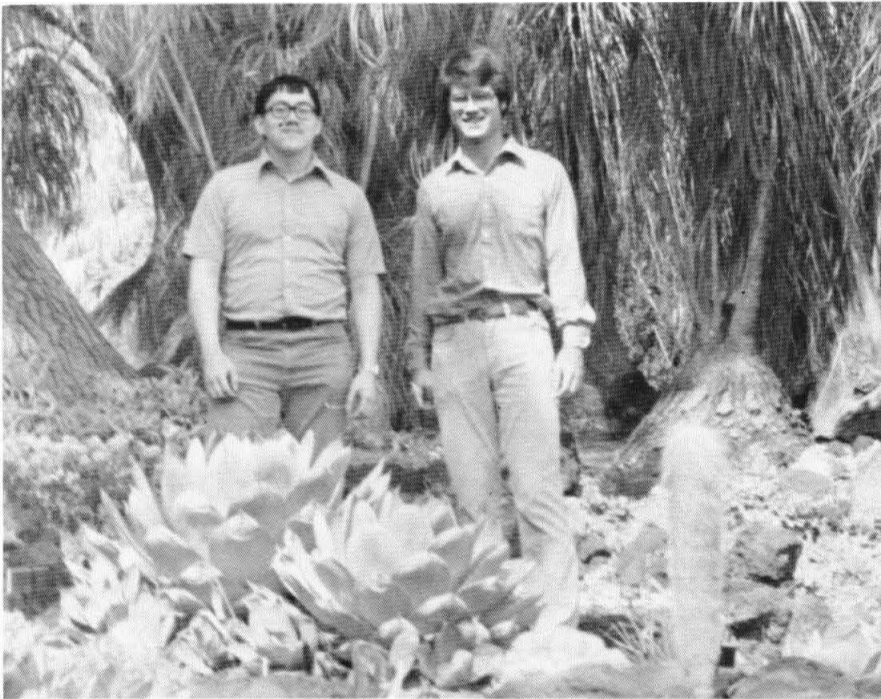
3. *J. P. Clejan*
New York, New York
Engineering

Thanh Diec
Columbia, Connecticut
Electrical Engineering

Carla Ahlstrom
Salem, Oregon
Chemical Engineering

Mark Chitjian
Redondo Beach, California
Engineering





6. *Karl Clausing*
Camarillo, California
Electrical Engineering

Scott Bloom
Oyster Bay, New York
Physics

Vincenzo Cammarata
Tom's River, New Jersey
Chemistry

4. *John S. Wang*
San Francisco, California
Electrical Engineering

David LePoiré
Holland, Michigan
Physics

5. *Hamid Johari*
Tehran, Iran
Engineering

Kenneth Chow
Hong Kong
Physics

OINK!



Ich bin ein Schwein!
Farb mich Grün!
~~Eine deligit halle~~
~~Pastorale Scene!~~
Eine kleinlichtvolle
Burglandische Scene!



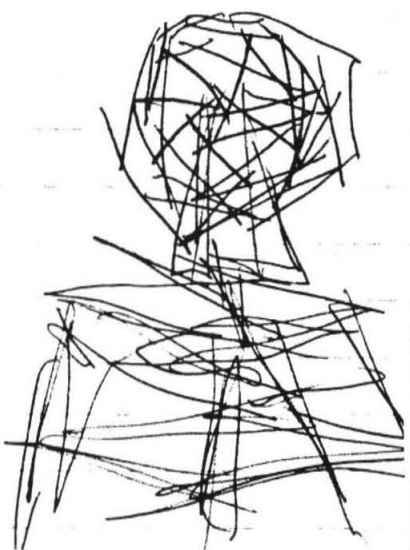
Cubist program:
tear things up & put them back together.



POINTLESSISM STRIKES BACK!



Sunday 1:00 pm 125 BAXTER ~~33rd~~ 13th ART Final
this Sunday (6 Mar) 8:25 "Shock of the New" + food
no other museum visit ~~penultimate~~
Ducha - Pig descending a pig-case
"the human figure in flight."



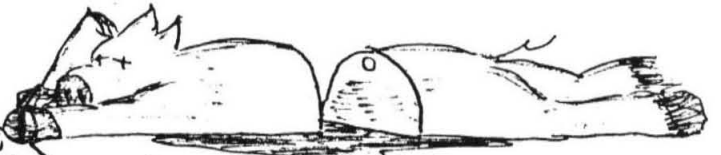
clearly representational

BURGLAND

ADVERTISEMENT

Time 3:30

Pig #627 Paul Burchlund in Zurich in 1916 AD



Boxer-Poet ZoPoBurglund



3 fat pigs
3 fat pigs
Hear how they
oink! Hear how
they oink!!!

#628: dadaist pig



"Ready mades" & "assisted n"
mass produced, ordinary objects



oink!

OINK!



aestheticism

#636-7



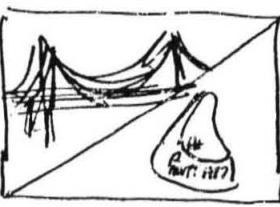
pig contemplating
pistol pointed at it.

oink!



oink!

VISIT
senic
AMERICA



home
Bridges
&
Plumbing!

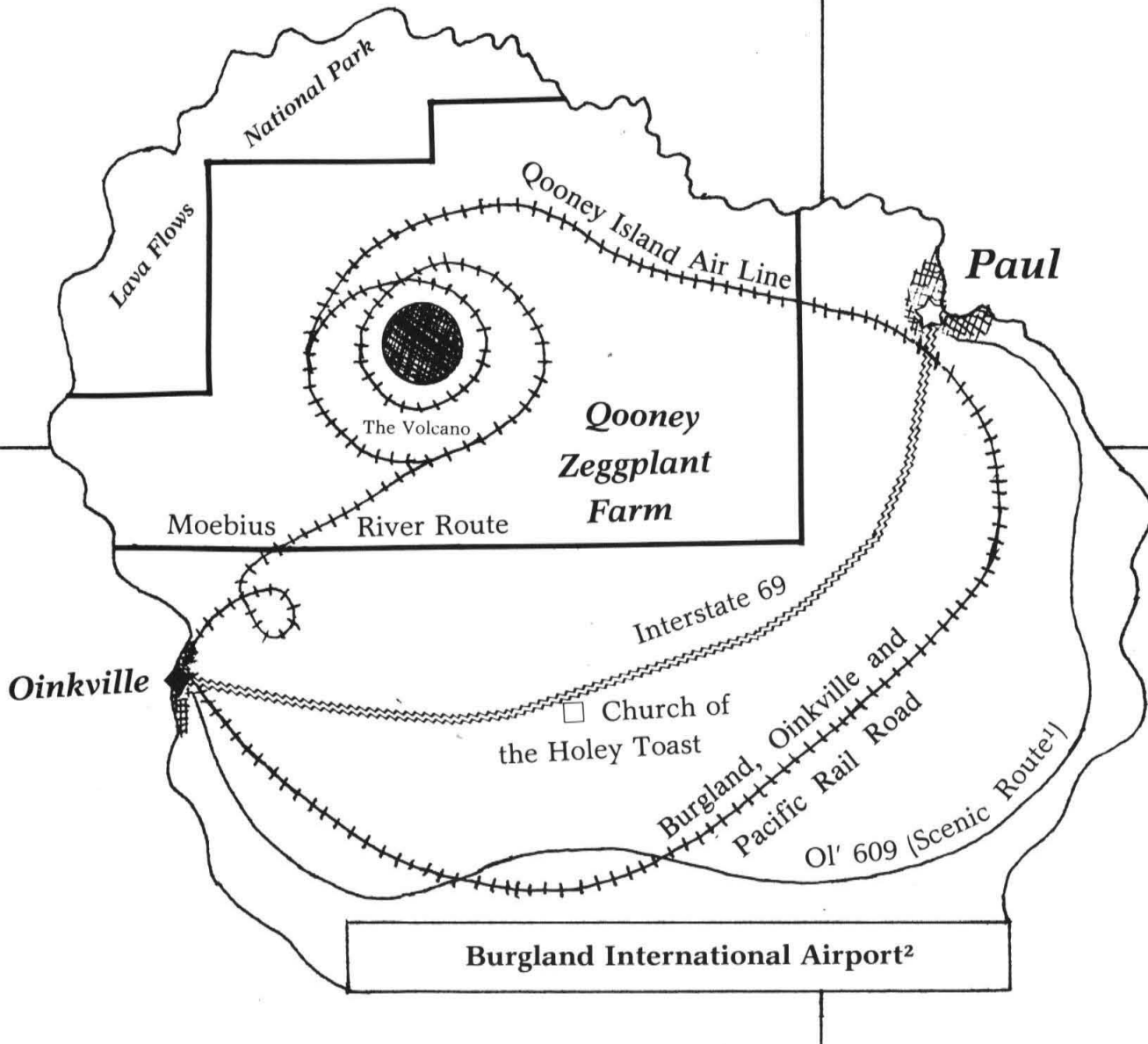
PLUMBING WILL
SAVE THE WORLD!



I am a vampiric
pig! Color me
red!!!



ADVERTISEMENT



¹ Named after Fred Cheezbitz Scenic, famous person.
² Built by Russians in exchange for Zeggplants.

BURGLAND:

*Land Of
 Many Swine*

LEGEND

Rail Road ++++++

Highway —————

Interstate Highway ~~~~~~

City ◆

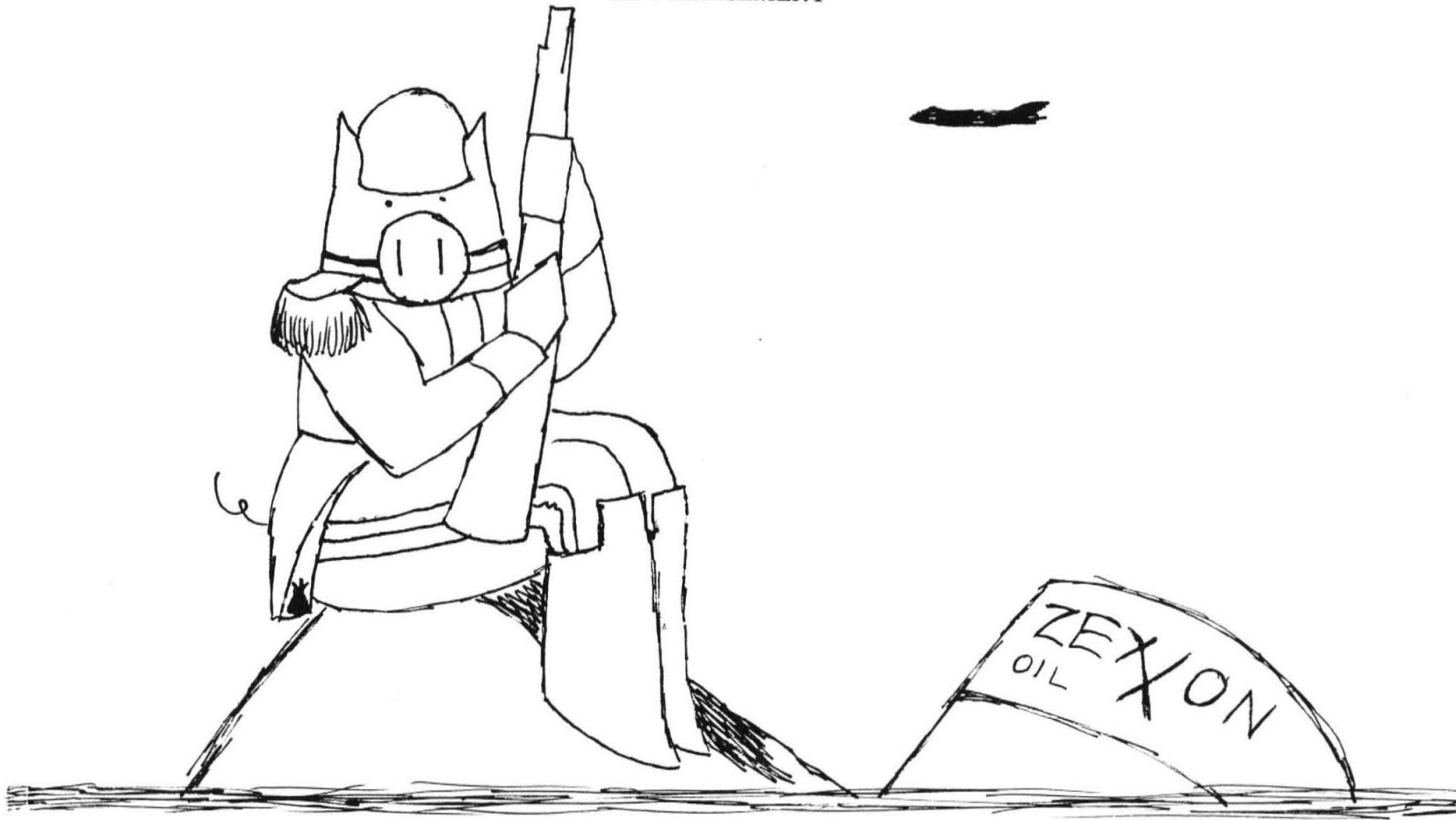
(Das) Kapital City ☆

Church □

1 dodecafurlong = 1 inch

©1983 Burgland Tourist Information Agency

ADVERTISEMENT



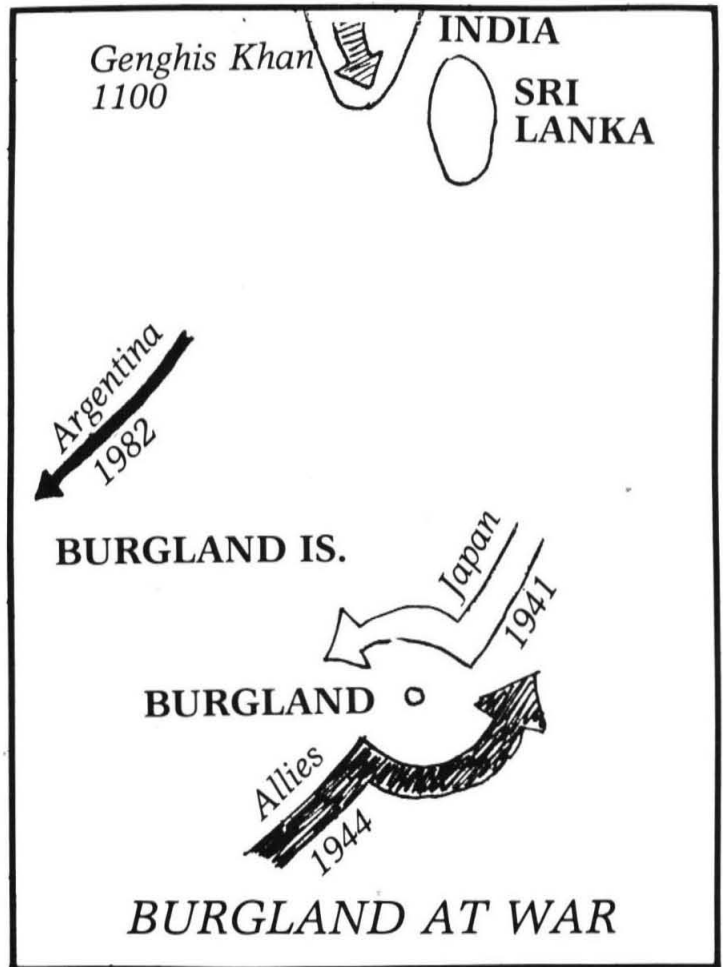
The history of Burglund is as rich as the variety of produce available on Burglund. Who can fail to be stirred by the poignant portrait of its greatest hero, the late General Paul Burglund, in whose honor many of the prominent features are named. General Burglund is shown defending Burglund's Strategic Oil Reserves from an intruding unidentified DC-10 bomber. He blunted the attack by firing four shots from his breechloader, the enemy fleeing in the direction of Ethiopia.

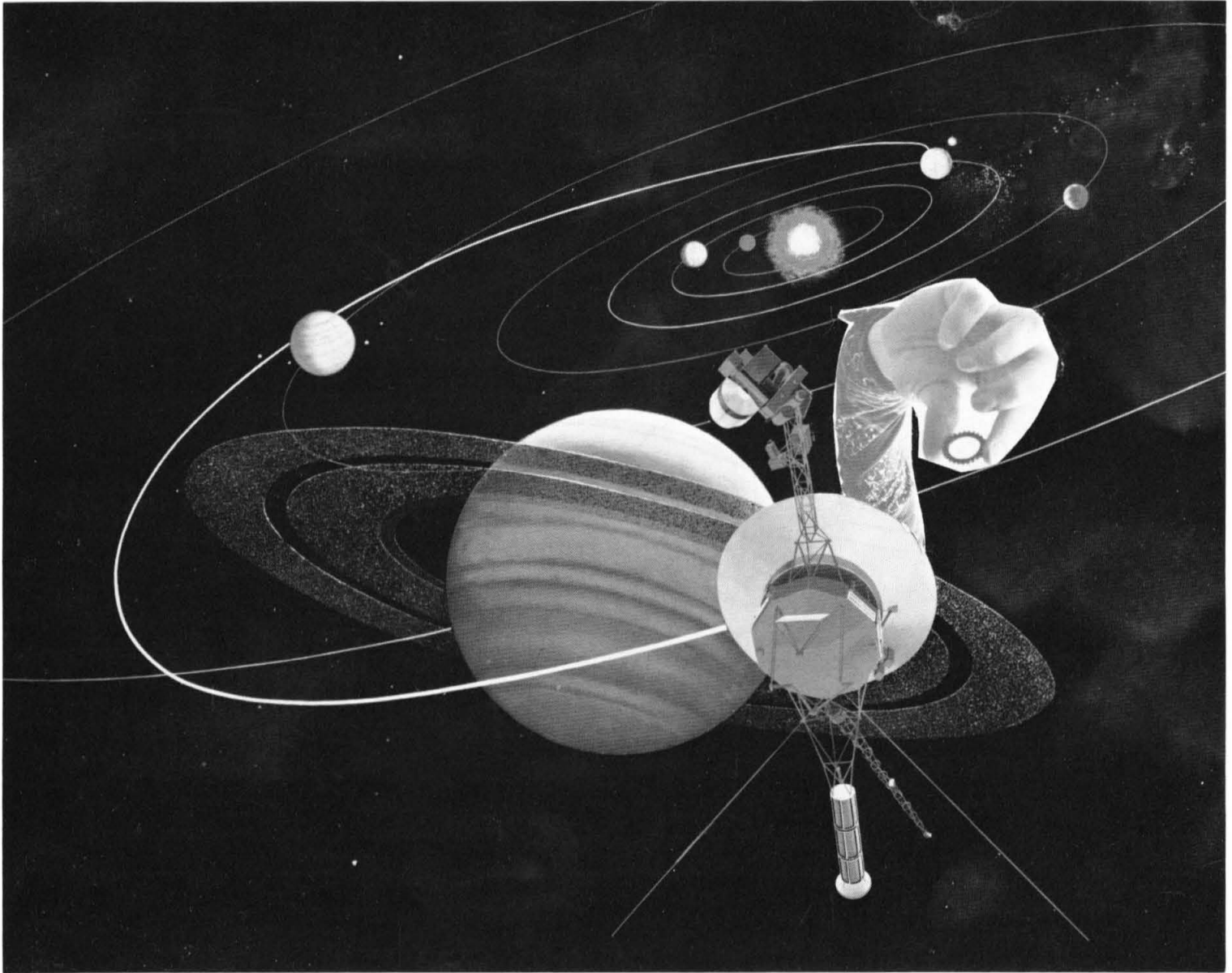
Burglund was originally settled by the Vikings, who abandoned it. A few years later, the Tahitians discovered it and sold it to the Ceylonese, who bartered it for a few head of cattle to the Ethiopians, who had no way to reach it. The Ethiopians rented it to a visiting Etruscan couple, the Qooneys, to whom everyone on the island today can directly trace their lineage.

The Qooneys prospered and, one evening, Maark Qooney discovered a single eggplant seed washed up on the shore—the humble beginnings of the fabulous Qooney Zeggplant Farms, the major employer on the island today. As the Farms grew, the Ethiopians, while still not having a way to reach the island, threatened to raise taxes, and, in the stirring speech of July 4, 45 a.d., Burglund declared independence from Ethiopia.

Burglund's history of military mastery is unparalleled in the free world. Burglund has thwarted every major attack on its sacred shores, from Genghis Khan to the Japanese in World War II to the Argentines in last year's short-lived Burglund Islands war.

So, whether you are a wealthy capitalist or a common pauper, Burglund is the home for all peaceful, freedom-loving people.

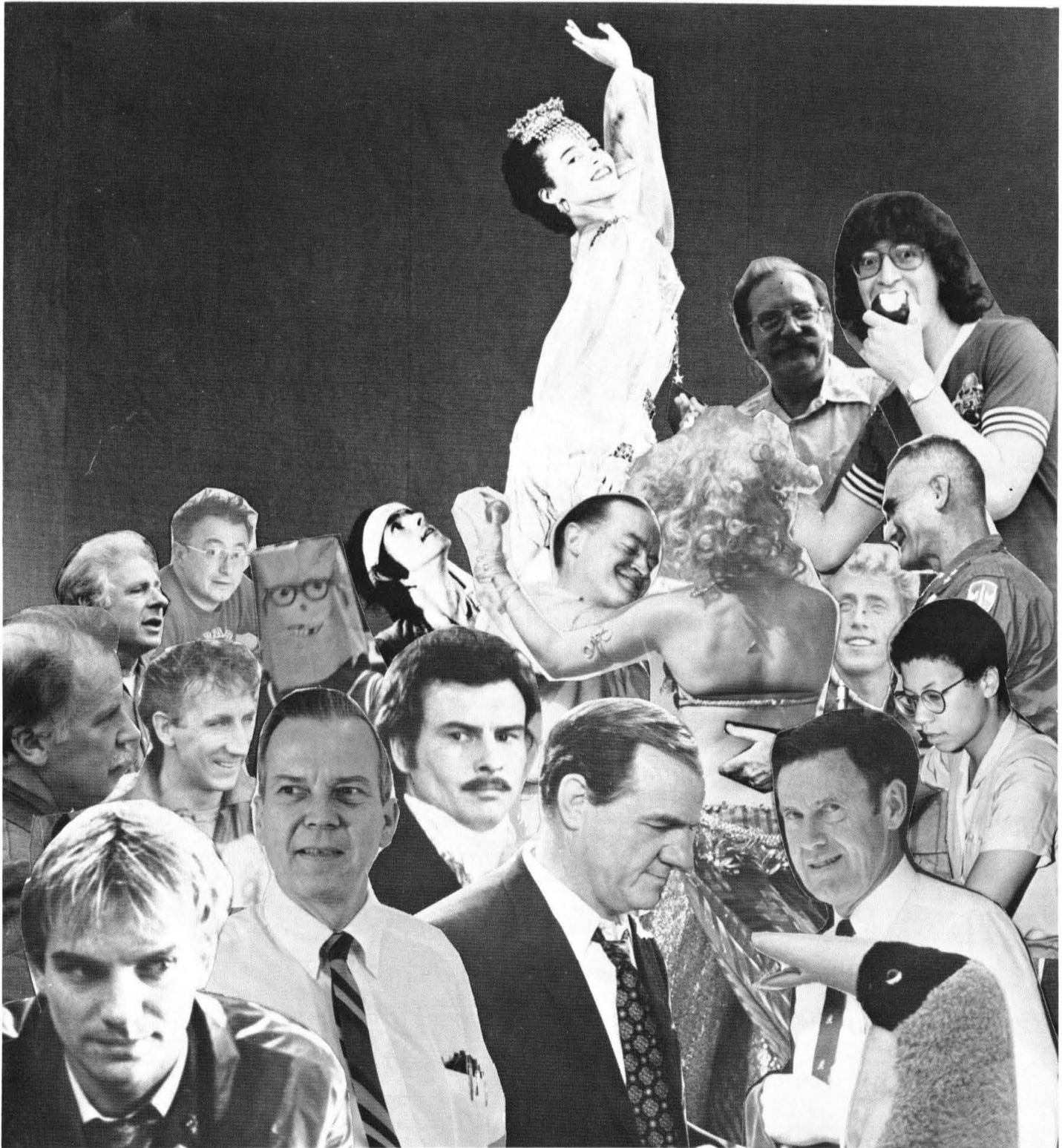




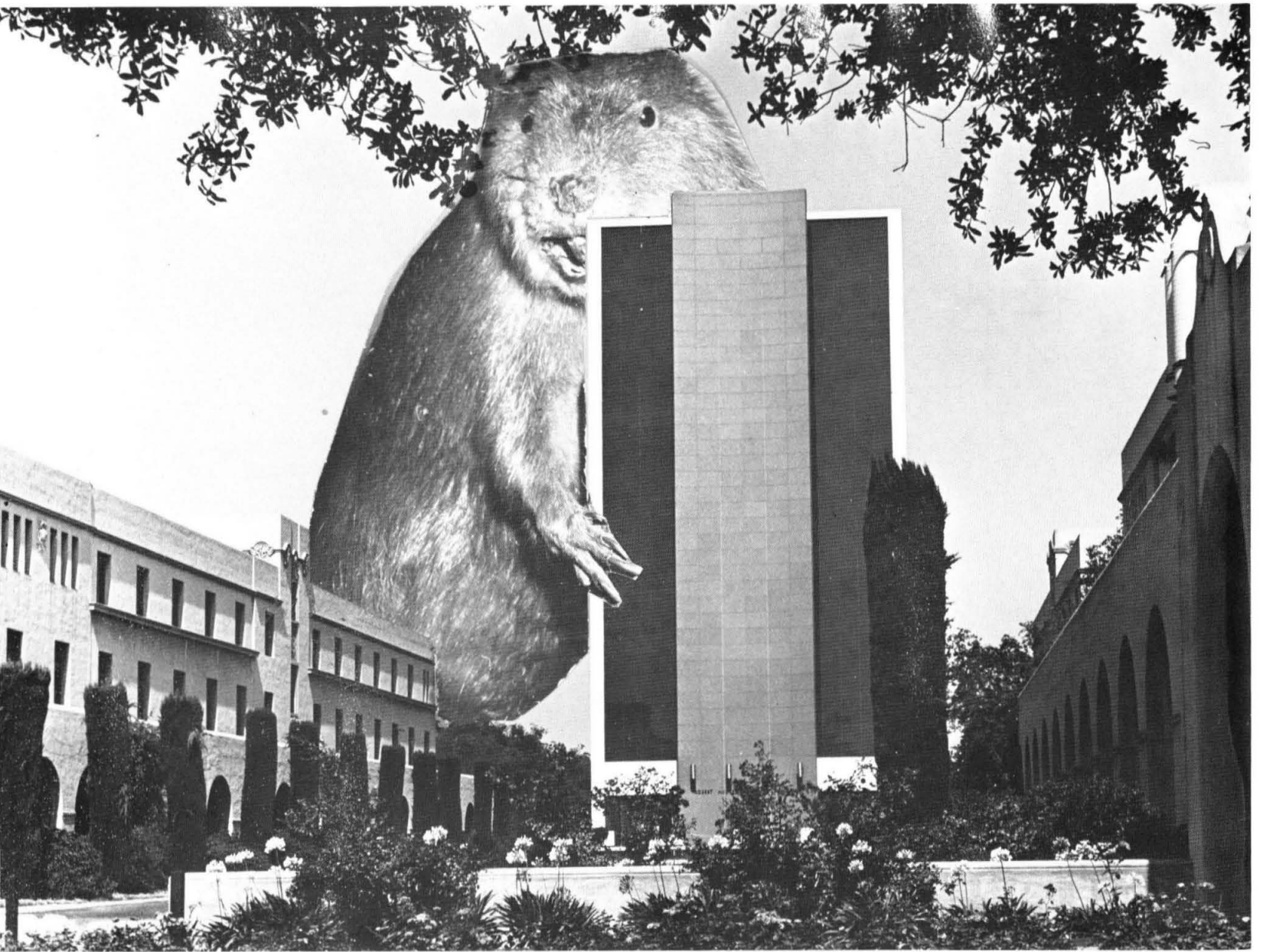
BURGLAND: *land of* INDUSTRY

Your business can prosper here on the island paradise of Burgland. We have many natural resources and many highly skilled technicians. We are proud to have been able to contribute to the American Voyager space probe program; the mechanical boom-clasp pictured above on the probe was manufactured here, hence its name "The Burgland Arm". It can even open beers. Contact the Burgland Tourist Information Agency for further information on transplanting your budding business to Burgland.

BURGLAND: *land of CONTRASTS*



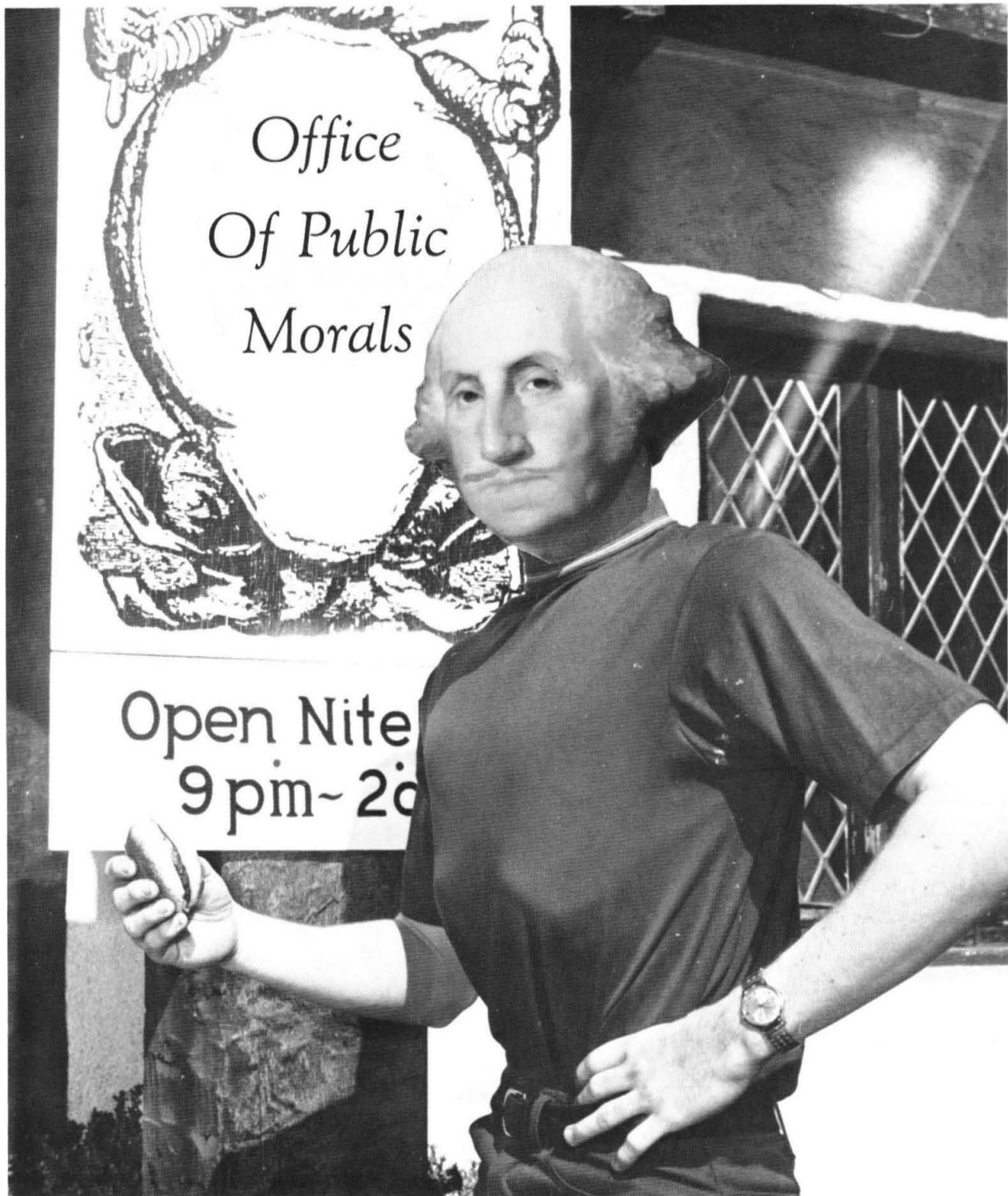
©1983 Burgland Tourist Information Agency



Bustling nightlife of downtown Paul, featuring giant Marmot, at BTIA Building Number 42z, near BTIABN 36d (left) and BTIABN 108c (right, soon to be demolished).

BURGLAND OFFERS MANY OPPORTUNITES:

- Distant from many emerging nations*
- Small size (country area: ¼ mi. x ¼ mile) means you're never far away from anything*
- Quaint rural setting in the shadow of The Volcano, yet nearby to the bustling nightlife of downtown Paul*
- Legalized gambling on exciting race riots in Oinkville*
- Two modern steam railroads to serve your industrial needs*
- Convenient daily flights from Burgland International to Addis Ababa, Ethiopia*
- No U.S.-backed, Soviet-supported, Libyan-trained, neo-Nazi, black-Moslem, low-fat terrorist death squads*
- See scenic giant Marmot herds (in downtown Paul!!)*
- For further information, write the Burgland Tourist Information Agency*



President George Washington Burgland, Soldier, Statesman, Scientist, is working on new uses for zeggplants. Here, he visits the Office of Public Morals to give a lecture on his famed Zeggplant Oil Drop Experiment

A message from the President:

Hi.

How ya' doin'?

I'm doin' alright, myself.

Well, good night.

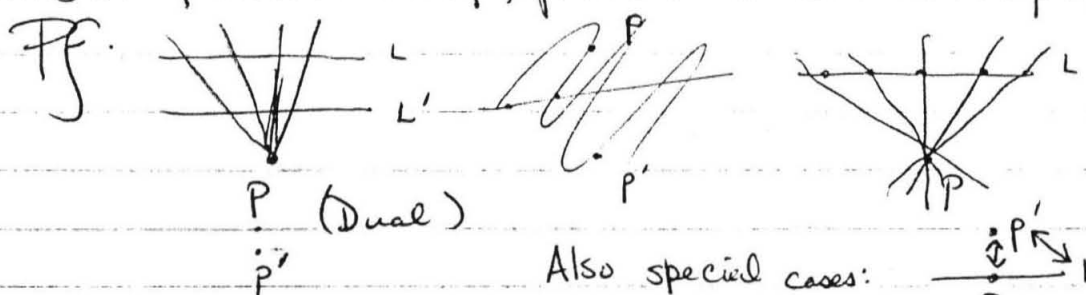
This has been a message from the President.



FEB 10

ELMER THE MOCKOSAURUS

THEOREM 3.1. $p \neq p', L \neq L'$. Then \exists 1-1 map of pts on L to pts. of L' ,
 lines on $p \leftrightarrow$ lines on p' , pts. on $L \leftrightarrow$ lines on p .

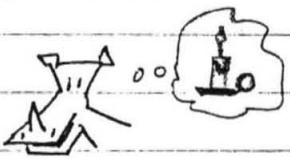


Also special cases: $\begin{matrix} p' \\ \downarrow \\ p \end{matrix} \begin{matrix} L \\ \leftarrow \\ L' \end{matrix}$ etc



Checkerboard problem: Take
 remove two white squares
 in normal sense?
 Also: Try w/ a 1x1 board

HOUSES



CLEVER MOCKOSAURUS DECIDING TODAY'S MATH NOTES WILL NOT BE ESPECIALLY GOOD.



Mrs. X. Smith of Burglerville, Ohio (a real person)
 says "Sudzo is good!" \leftarrow FINE ENDORSEMENT



MATH \rightarrow Finite Projective Plane = Finite Projective Plane.

$\Pi \cong \mathbb{Z} = \lambda$ "AS IT SHOULD BE" - A.R.

$n+1 = r = k$

$n^2 + n + 1 = b = v \quad (n \geq 2)$

n = order (not to be confused with order)

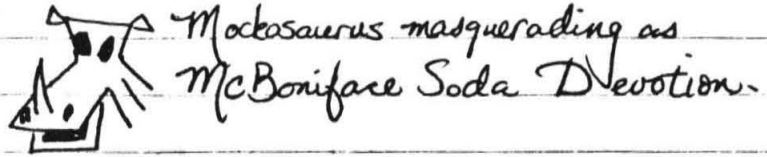
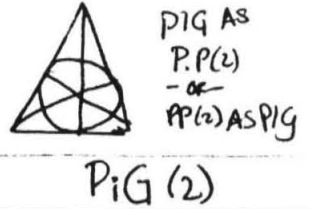
THEOREM. THEOREM. THEOREM. THEOREM. THEOREM. THEOREM. THEOREM.

QED: THEOREM. THEOREM. THEOREM. THEOREM. THEOREM. THEOREM. THEOREM.



NEW MARTIAL ARTZ
FILM COMING TO THEATER
NEAR YOU SOON.

THEOREM 3.3. QED.



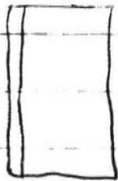
THEOREM 3.4. (Desargues ; 1838, 1839)

A finite projective plane Π, n is equiv. to a set of $n-1$ -L-S-O-N.

$\mathcal{A} \subset \Pi, n \cdot L = \{p_1, \dots, p_{n+1}\} = L \cdot q_1, \dots, q_{n+1} \notin L$.

Lines through $p_j : L_{j, 1, 2, \dots, n} \cdot q_i \rightarrow p_j = a_{ij}$

$A = [a_{ij}]_{n+1}$ ($i=1, \dots, n+1, j=1, \dots, n+1$)



\rightarrow MUT. ORTH. L.S.'S.

Check \checkmark . QED.

\leftarrow Check \checkmark . QED.



EVIL DOCTOR FU MAN SAURUS.



DUCK \rightarrow

I.G.I.F. #

FEB 14



HEY, KIDS!
PROOFS ARE NO FUN!

PLATYPUS \rightarrow



HOW'S IT GOING, EH?

Continuing saga of THEOREM 3.4
proof. (See Mark's notes) \rightarrow



LET Π BE A MATHEMATICAL SYSTEM.

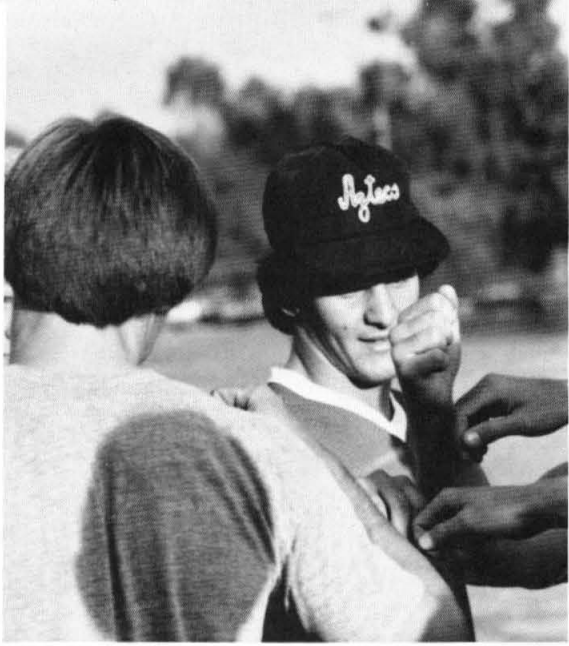
PiG

THE OINK THEOREM:

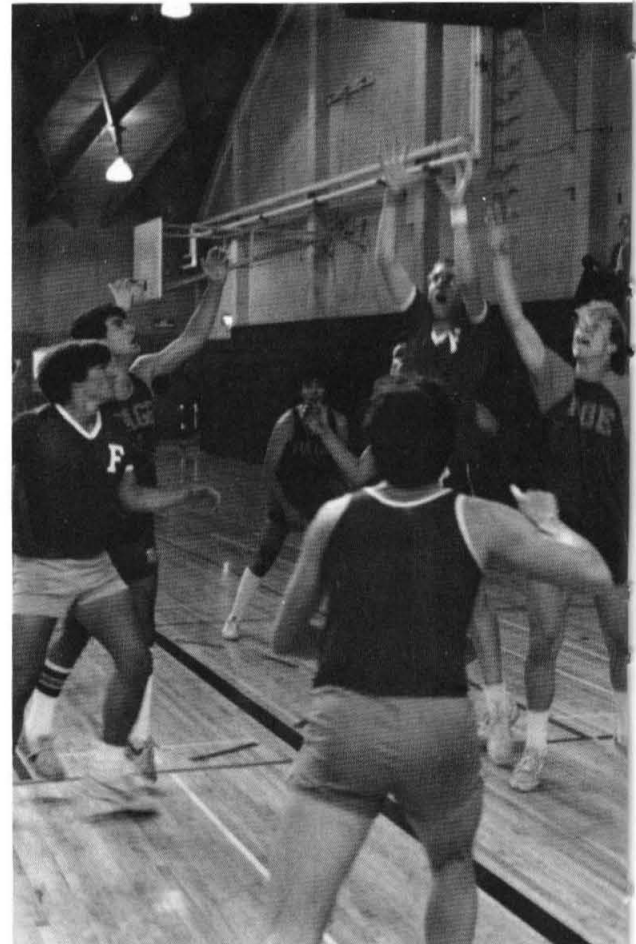
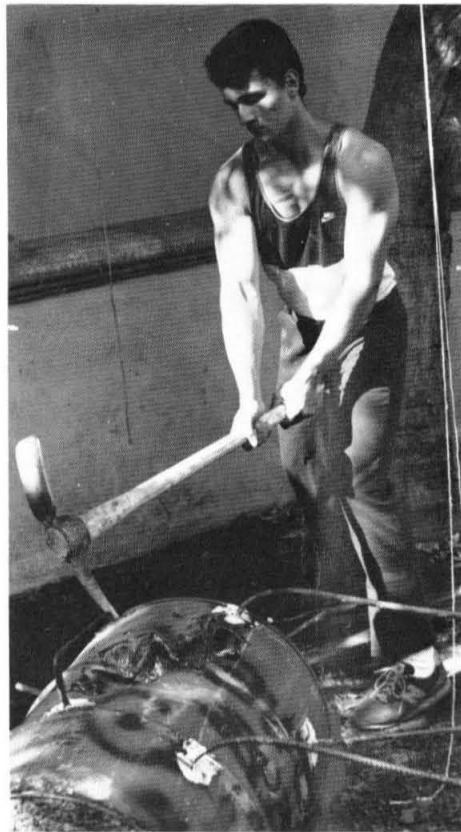
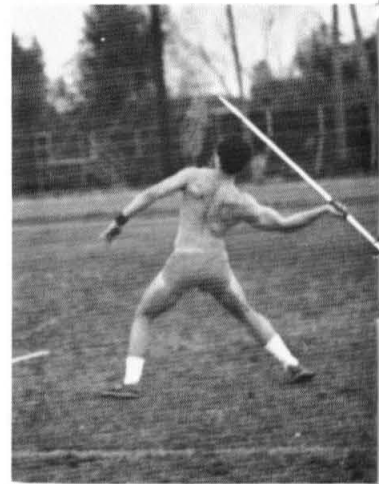
$\Pi: (3,2), (3,3)$ hold. $n^2 + n + 1$ pts.; $n+1$ lines/pt, $n+1$ pts/line

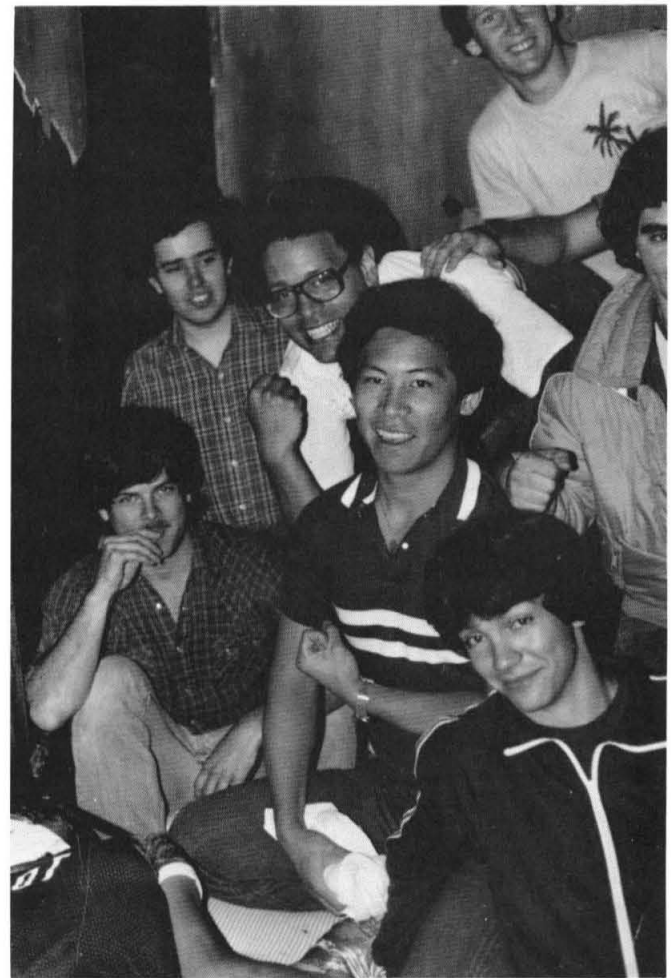
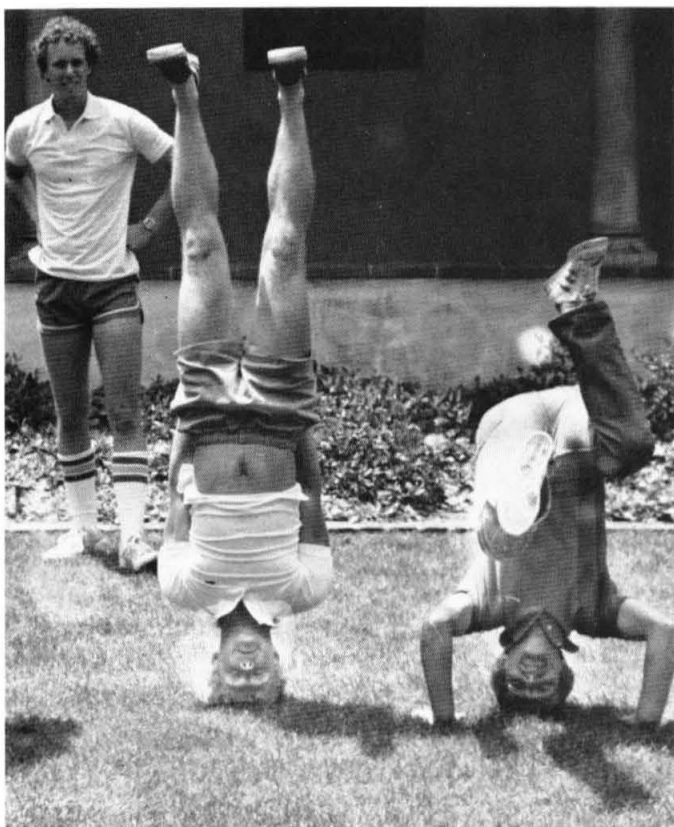
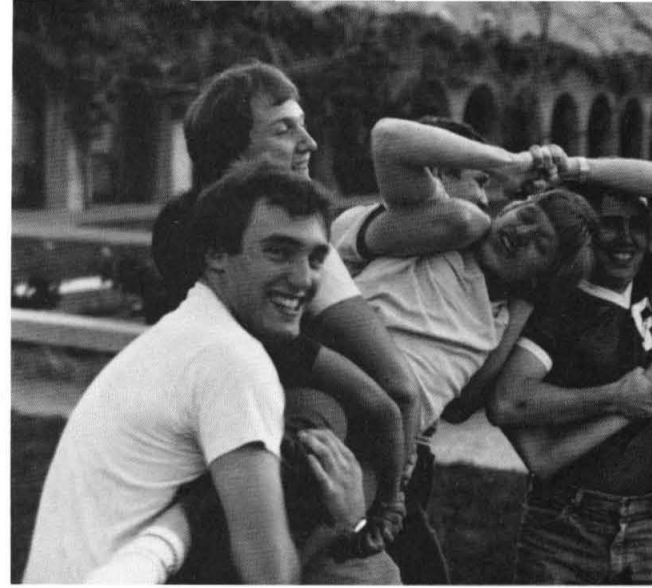
$\Rightarrow \Pi$ FPP order n .

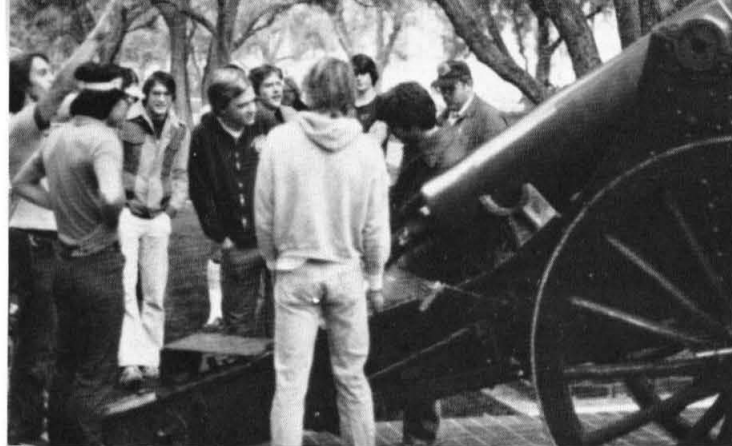
\mathcal{A} . On Mark's Paper (No Doubt)



Fleming House







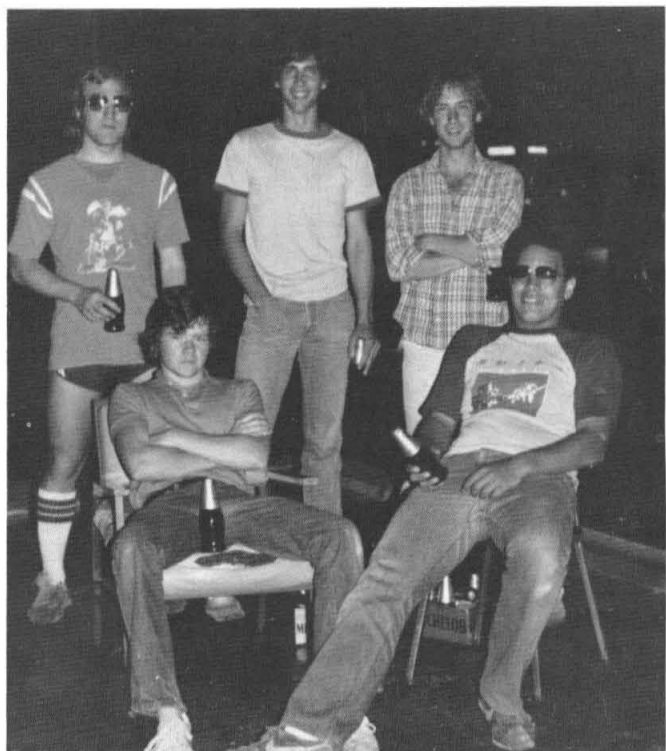
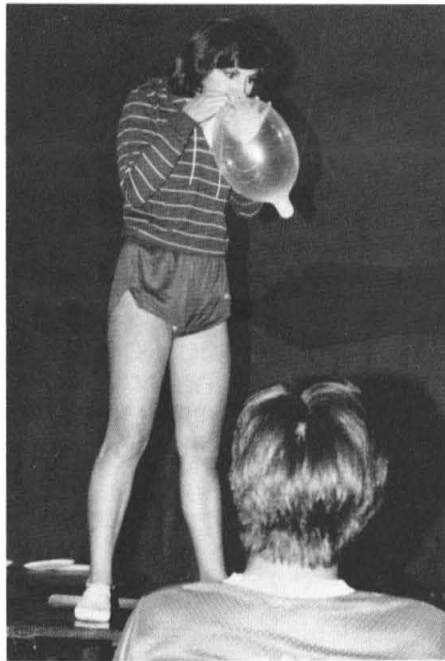
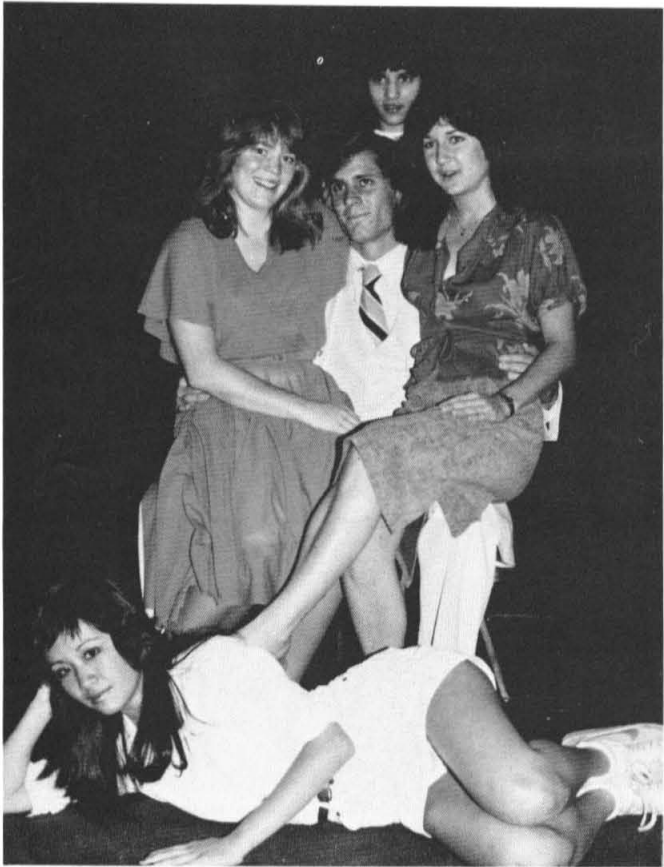
Two score and eleven years ago, Arthur Fleming brought forth upon this campus a new house, conceived in unity and spirit, and dedicated to the proposition that all men were not created equal to Flems. This proposition has been annually tested and always found to be true, and this year was no exception.

The year began with our annual sojourn to Catalina Island's Frosh camp. After weathering the storm, the Flem's returned ready to tackle rotation. The frosh pick went very well and Fleming ended up with a fine freshman class which even included six women. The formal dinner was again the social event of the season with Rajiv Sahney displaying the fierce role of pledgemaster to our young froshlings. So fierce was Rajiv that he had Gene Pottenger making Basto noises for a video game with a broken speaker. The end of initiation was followed by our annual pageboy wash in page house. Page house reacted by moving Flem-to-be Frank Kragh out of page and onto the Olive Walk. As if page wasn't enough, ballless Lloyd House stole our pool balls and returned a week later to our lounge where we had a leisurely Lloyd wash.

Fecathalon was held and won by Alley 3. This was followed by only one alley challenge all year, when Alley 1 challenged Alley 3 to a game somewhat like Blindman's Bluff, where the two teams tried to squirt each other with bottles of ketchup and mustard.

This year's Interhouse theme was James Bond. The play was, as usual, a great success. Bond, played by Mike Hisey, took care of the secret agents (all played by Mike Oliver) sent by each of the other houses in an attempt to place him in Bondage. The lounge was transformed into a profitable casino and bar, complete with authentic paintings from the Huntington Library. Under the supervision of John Sahr, a submarine was built which was intended to surface in the courtyard, but due to excessive rain and weak rope, it sank. In spite of this, it was a very enjoyable Interhouse.





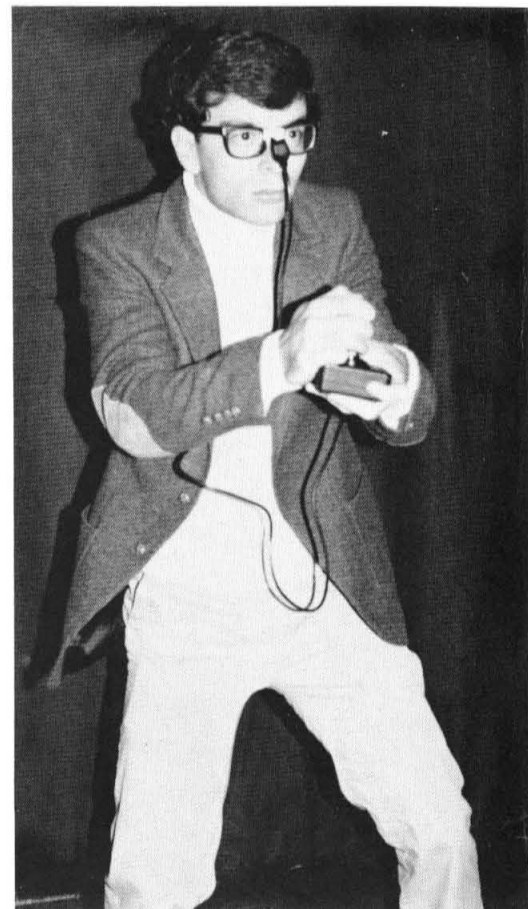


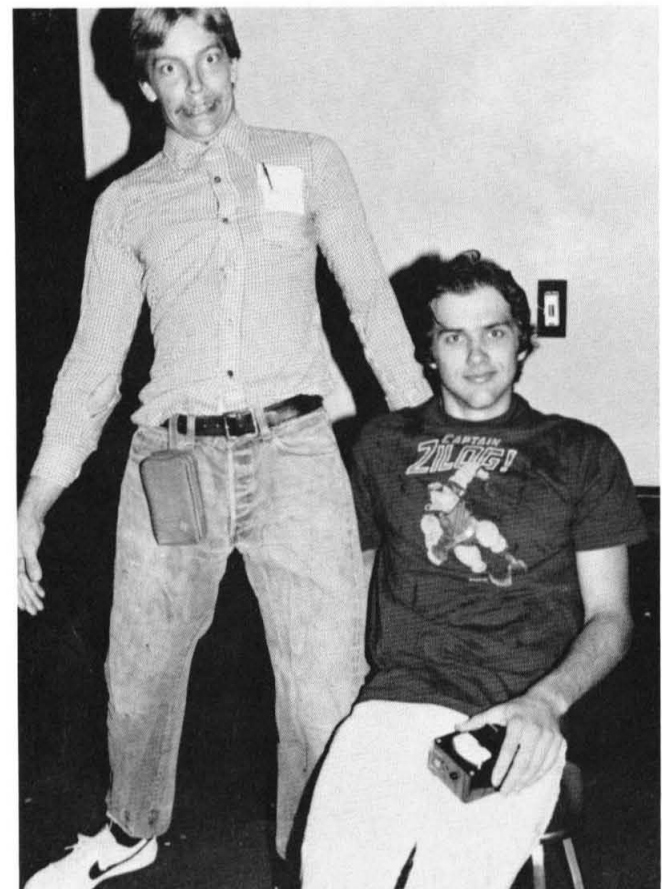
SOPHMORES

FIRST ROW: Uwe Hollerbach, Chuck Nainan, Bret Clark, Mike DeKay, Faye Flam, Jim Wu, Chen-Wei Han, Kurt Lempke, Stefan Feuerabend, Joe Cheng, Mike Lodman, Mark Beauchamp.

SECOND ROW: Rex Wang, Rajiv Sahney, Martin Martinez, Dave Watkins, Marvin Shannon, Glayde Myers, Jonathan Brown, Linda Liu.

NOT PICTURED: Kenny Baker, Charlie Miller, Bill Butler.

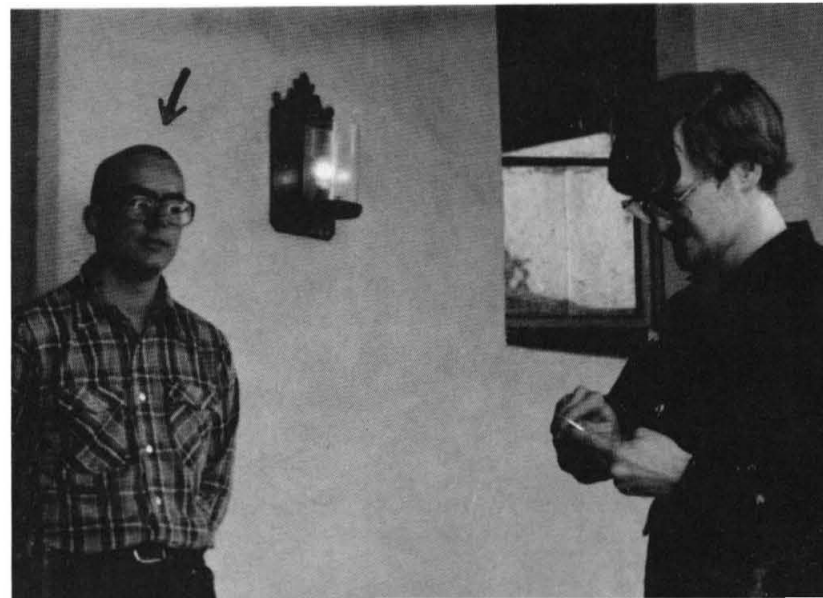




The rest of the term proceeded smoothly, and although occasionally bothered by other members of the community, we did not display our "obscure martial arts techniques" or use our sync bricks on their heads. The juniors signalled finals week by ringing the bell for the AMa 95 final - an unpopular social event. Finally, the long awaited Christmas break arrived.

The beginning of second term was marked by the return of Glen Swindle. For one week, Fleming rocked and reeled as the Swindleites raided the alleys in search of frosh, water and trouble. This was soon followed by an orange war with Dabney House. Even though they got up on our rooftop, they were pelted to a quick defeat by our superior marksmen on Firestone and the Synclab.

Sometime during second term, Alley 6 started the nauseating habit of incessant jello consumption. Whether eaten, drunk or injected, jello found its way into the stomachs and minds of nearly everyone in Bat Alley. The Alley 6 band made several appearance at jello parties before they were finally washed up. A jello-suckers vs jello-haters water fight was started one night which soon spread throughout the entire house, with few bystanders managing to stay dry. Alley 6 also started a flour fight one night which eventually sifted its way into page house. Ganja Alley, also known as Higher 3, went on a rampage, leaving their mark, a green dot, on everything in sight. The battle escalated as Ganja Alley woke up one afternoon to find its walls covered with red, orange and blue dots. People will probably be finding green dots in Fleming House for years to come.



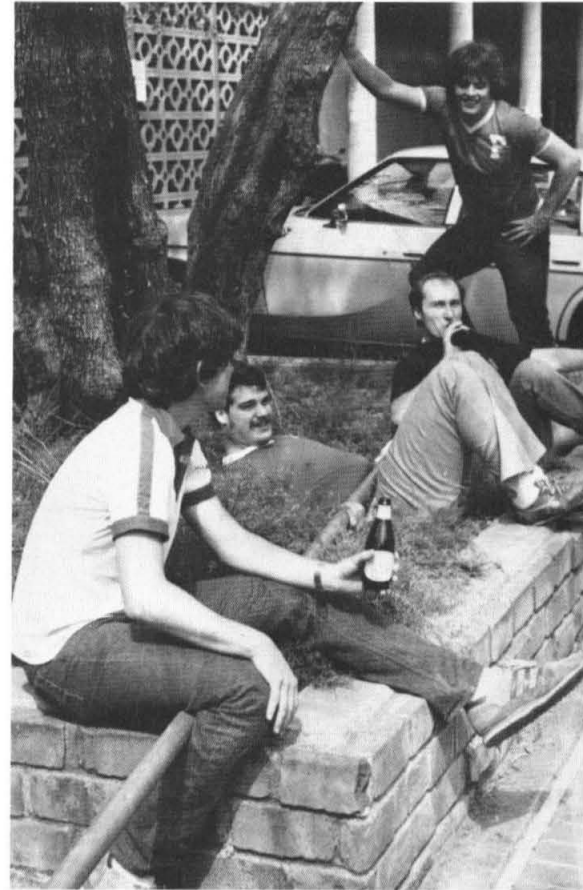


In an attempt to turn the house's attention to more serious matters, the juniors challenged the rest of the house to a game in any Interhouse sport. The juniors made up their own shirts for the event, white with a red F on the front, and "84" in red on the back. Soccer was chosen, and the juniors came in a close second after a hard fought match. It at least served the function of getting almost everybody in Fleming House to stop trolling for a couple of hours.

Elections were finally held, and John Sahr, Russell Natter, Mignon Belongie and Ned Wingreen took office as president, vice president, secretary and treasurer, respectively. The new Social Team consisted of David Childs, Dave Watkins, Mitch Smith, Frank Kragh and Betsy Arnold. The new Ath Team (almost the same as the old Ath Team) consisted of Stewart Peebles, John Krehbiel, Stefan Feuerabendt and Robert Franciosi. The Frosh Work Chairman, Sean Eddy, became the new librarian. On the campus scene, Fleming demonstrated its political clout with Candi McCoy elected as ASCIT president and John Krehbiel as IHC chairman.

After Glayde Myers inherited the office of IAC-COFH from Steve Jones, Indoor Olympiad was held. The seniors won, followed by the juniors, the sophomores and the frosh. The most interesting event was probably the the jug race, which was won by a team of frosh girls. This was soon followed by a brutal and unprovoked orange attack by Dabney House, which seemed to be mainly for the purpose of breaking as many of our windows as possible, and which seriously injured a bystander. Of course, Dabney House was not punished.



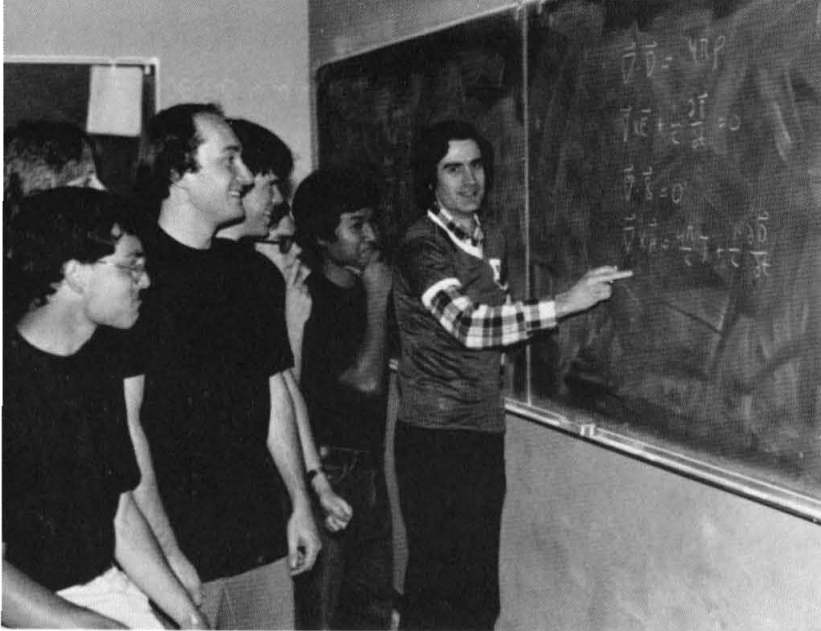


FROSH

FIRST ROW: Gene Pottenger, Mitch Smith, Betsy Arnold, Karl Clauser, Mark Laffoon, Mike Baumer, Scott Roland.

SECOND ROW: Scott Chou, Mike Graham, Christian Bower, Joe Yang, Kris Koresko, Mark Schuyler, Sean Eddy, Steve Deming, Sarah Santoro, David Ring, Lisa Skumeda, Mark Ross, Frank Kragh, Janice Pata, Brian Rose, Kevin Donovan, Wilson Yee, Ken Wong, Robert Franciosi, Vicky Shimizu.

NOT PICTURED: Pam Fong, Marit Jentoff-Nilson, Ara Kassabian, Everett Simons, Skip Todd.



Finally, the term ended and the Flemings went on spring break. The annual Fleming House Ski Trip to Mammoth Mountain was a great success, with only three people breaking or injuring their legs. Everyone had a good time, on the slopes, at the condos, in the jacuzzi or out on the town, and a new tradition was started when Stefan was "banked" for being a "head" the whole week.

Third term started out with a softball challenge from professor Bruce Cain, which Fleming won. Then, the Fleming Juniors challenged the page juniors to any interhouse sport. They chose football, but unfortunately, the outcome of the game is unknown at the time of this writing. The bearded physicists failed to make a comeback this year, but the junior physicists banded together as the Men of Maxwell. The Fleming House Society of Mechanical Engineers was soon formed, and challenged the Men of Maxwell to a game of football. Unfortunately, the results of this game are also unknown at the time of this writing.

Third term saw Uwe Hollerbach shave his head, John Quackenbush and Glayde Myers pierce their ears, Sean Eddy turn his room into the Alley 6 head with six toilets, and Mark Eggleston build his fantasy spark discharge device, which half of Fleming House helped to finance. The juniors celebrated only having 400 days left until graduation by making a Tommy's run. Nick Gross got a new stereo at least a hundred times louder than his old one, much to the dismay of the rest of the inhabitants of Alley 1 and 6. A joint attempt was made to drown out his stereo, which was unsuccessful until they finally goaded him into blowing out his amp. Of course, it was soon fixed.





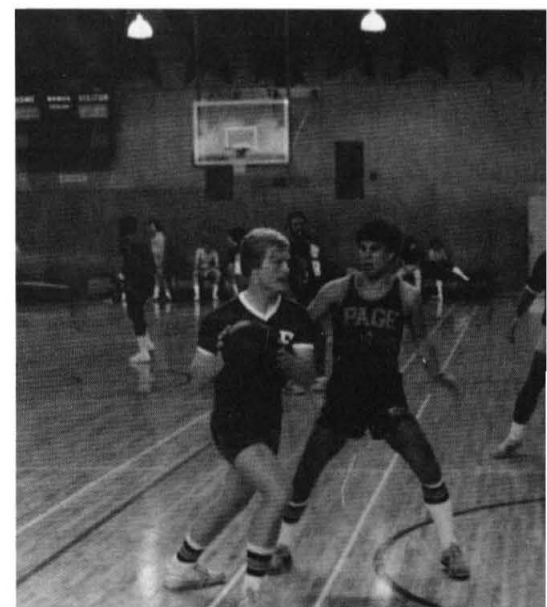
JUNIORS

FIRST ROW: Mark Abeln, Tom Kupiszewski, Mike Oliver, Dave Childs, Mignon Belongie, Harold Olfari.

SECOND ROW: Scott Stephens, John Krehbiel, Tim Magee, Don Hendrix, Stephen Jones, Terence Barr, Candi McCoy.

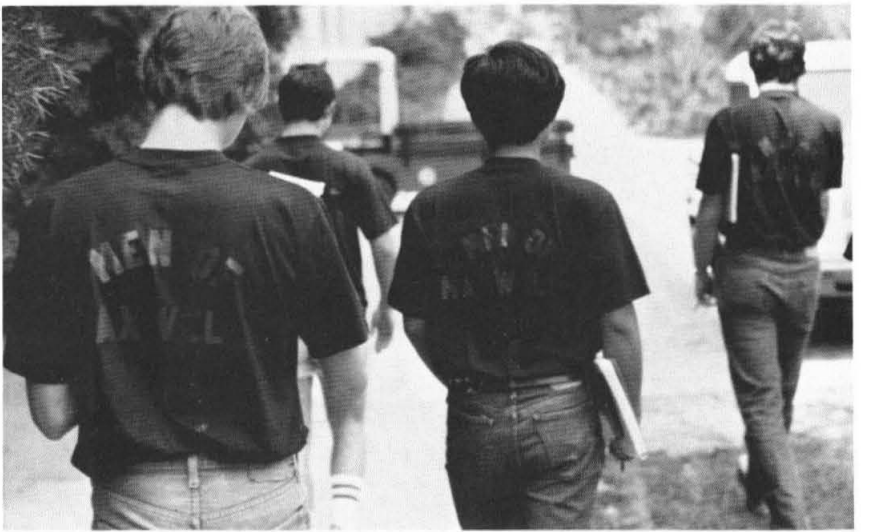
THIRD ROW: Cu Phan, Tom Remmers, Doug Shors, Nerd Wingreen, John Sahr, Stewart Peebles, Eric Grannan, Joel Villajunior.

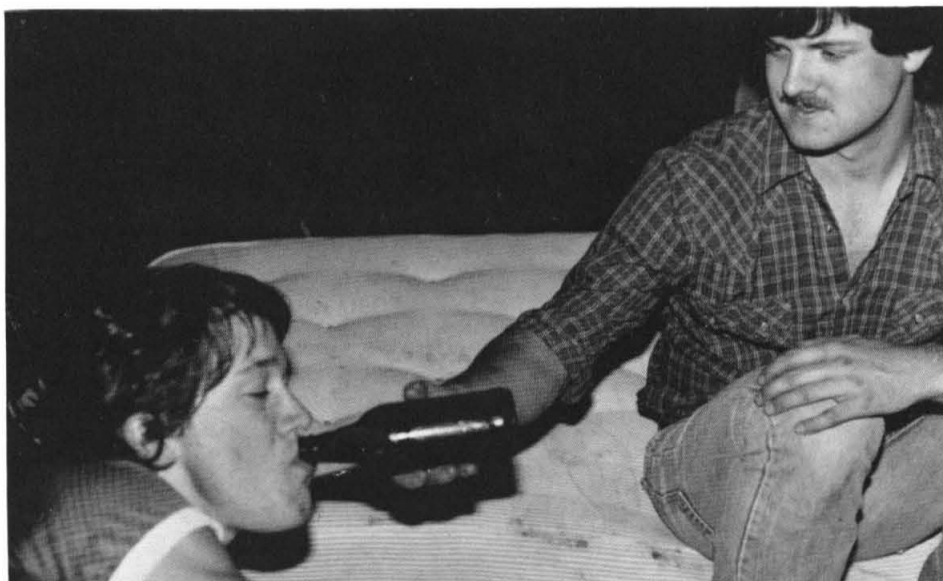
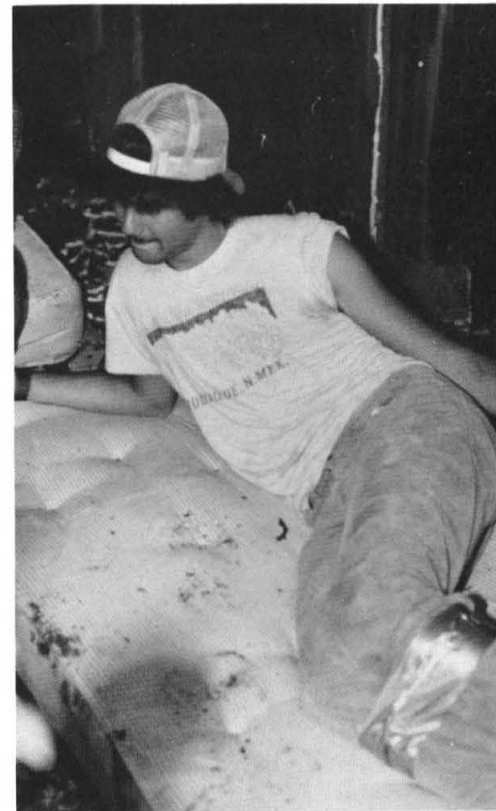
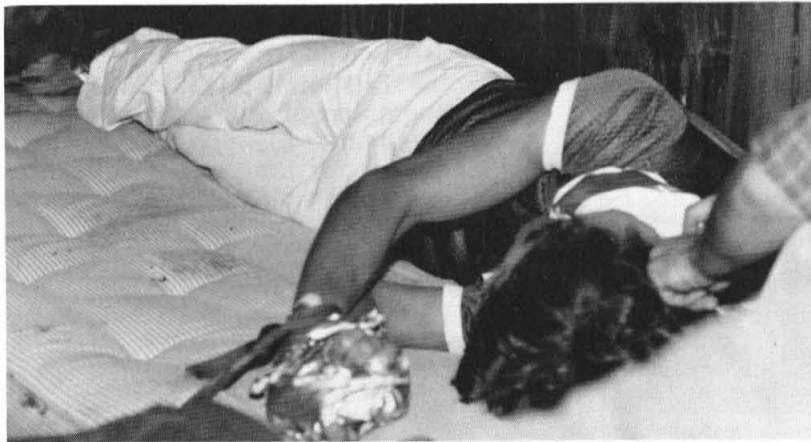
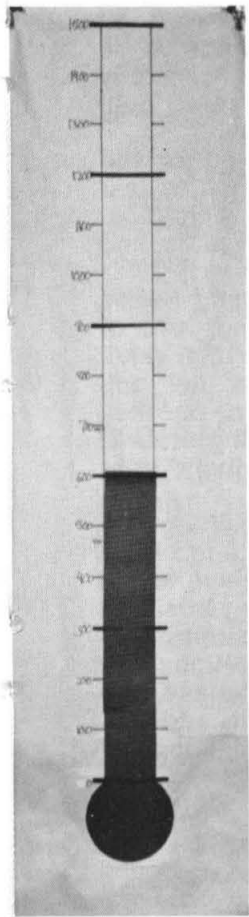
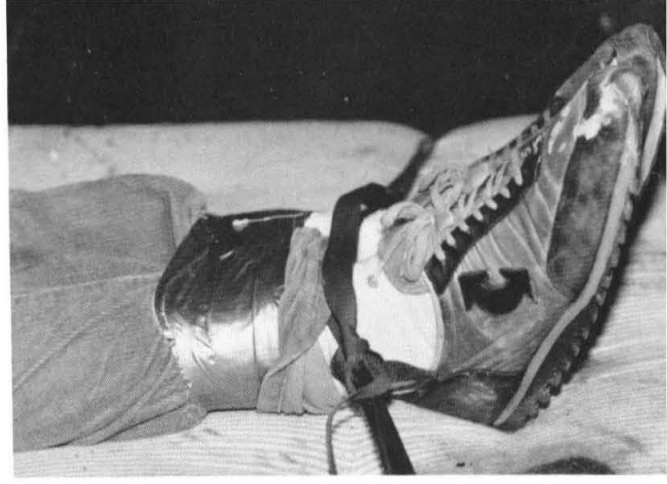
NOT PICTURED: Steve Baur, Theresa Birdseye, Jeff Cavallaro, Don Fossgreen, Mike Gorder, Tarik Naheiri, Eric Pan, Jeanne Weaver.

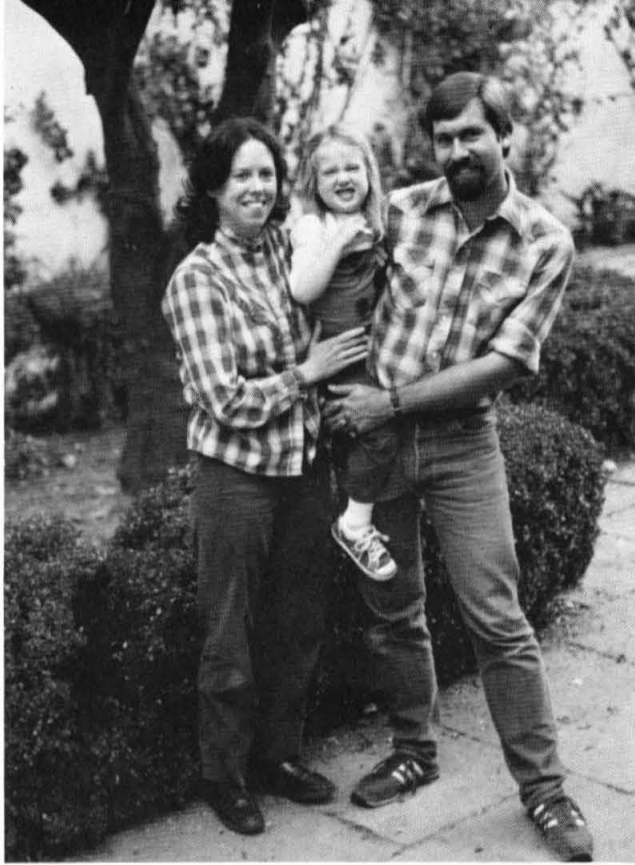




Third term also saw the most serious event to happen in Fleming in recent years. It started when a photograph was found showing a bunch of people, mostly Darbs, wearing Faggot shirts and standing around our Fleming Country Club sign and our Go Big Red banner. In retaliation, Fleming House decided to kidnap some of the people in the picture and hold them hostage until the items were returned, a plan masterminded by Doug Shors and Scott Stevens. Two Darbs were kidnapped, the items were returned within a few hours, and the people were released. The Darbs complained, so the IHC fined us the ridiculous sum of \$1500, while the original thieves went unpunished. Nonetheless, the house proceeded to collect money to pay the fine, increasing house spirit and unity in the process. One of the more entertaining methods of collecting money was the waiters' special dollar floats without backfloats, with all money going towards the fine, highlighted by John Quackenbush pouring applesauce down his pants in exchange for someone donating \$20 to the house. A drive to drop out of ASCIT was started, so that the money from the dues could be spent on the fine instead, and at least thirty Flems dropped their membership, much to the dismay of ASCIT.





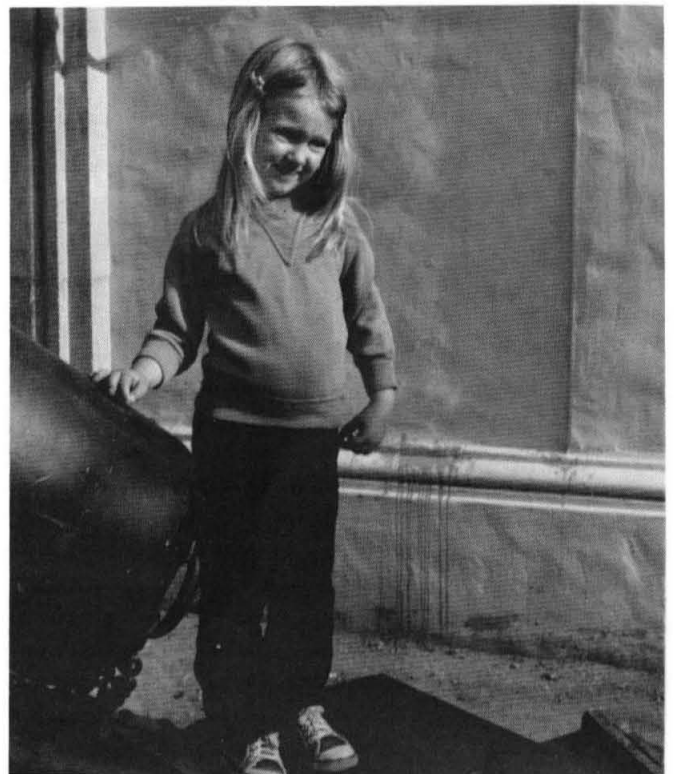


Ditch Day finally came, after a very convincing false alarm the week before. The stacks were all pretty good, and so were the bribes, so none of the seniors had their rooms counterstacked. At exactly 5:00 the cannon was fired, thanks to some gunpowder that was part of Mike Kilby's bribe.

Outdoor Olympiad was held and won by the juniors. The seniors came in last for the fourth year in a row, this year mainly due to lack of participation. Fortunately, the other three classes showed up, and the seniors were not missed very much.

Third term was the last term in Fleming House for the RA's, Kris and Teresa Meisling, and of course, Sarah. Fleming can not overstate their value to the house nor the respect we have for their opinion, participation, loyalty and cookies. As they leave Fleming House and enter Meisling House, they will certainly be missed. We wish them great success in their endeavors.

As can be seen, this has been an exciting and rewarding year for Fleming House. The end of the year will see the senior class graduate, taking with it the traditions and history of the past four years. The beginning of next year will see an awesome frosh class enter Fleming House, creating traditions and history for the next four years. Nevertheless, the spirit of Fleming House will always remain, and may this account reveal that spirit, being of Fleming, for Fleming and by Fleming. Let the Deed Shaw.





SENIORS I

BOTTOM ROW: Becky Sheets, John Souder, Dave Huff.

MIDDLE ROW: Mike Kilby, Gloria Badilla, Dave Hayes, Thelma Nunez, Dave Durham, Noemi de la Puente.

TOP ROW: Cheryl Robertson, Lorna Anderson, Bob Helbing.

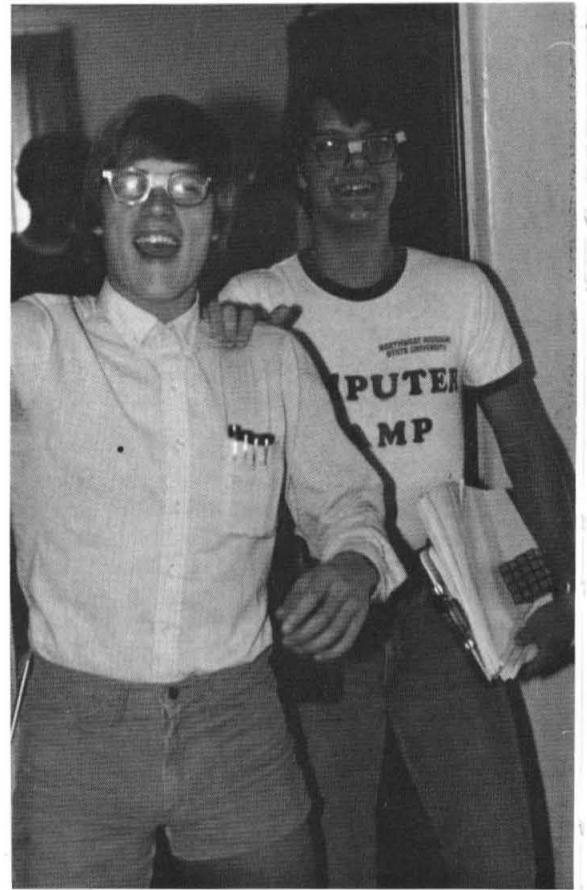
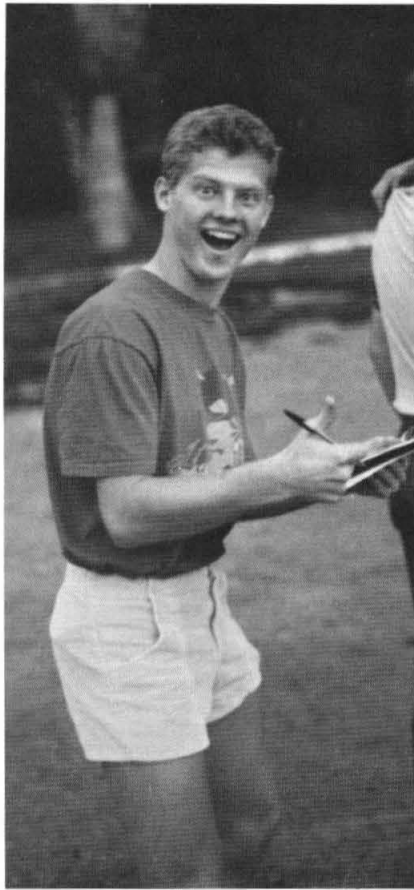
NOT PICTURED: Armand Capote, Karl Clausing, Andy Duncan, Mark Egglestone, Joe Garvey, Ray Gralak, Tze Kin Ip, Steve Knowles, Young Lee, Maclen Marvit, Vangelis Simoudis, R.J. Snook.

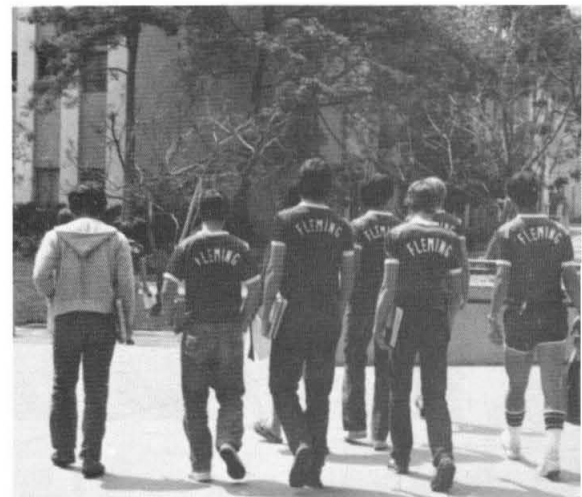
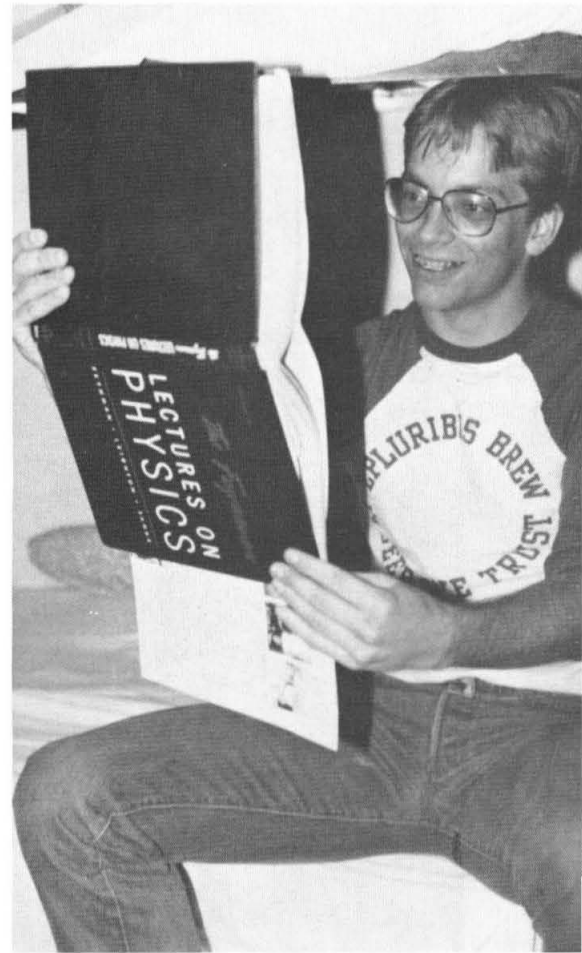
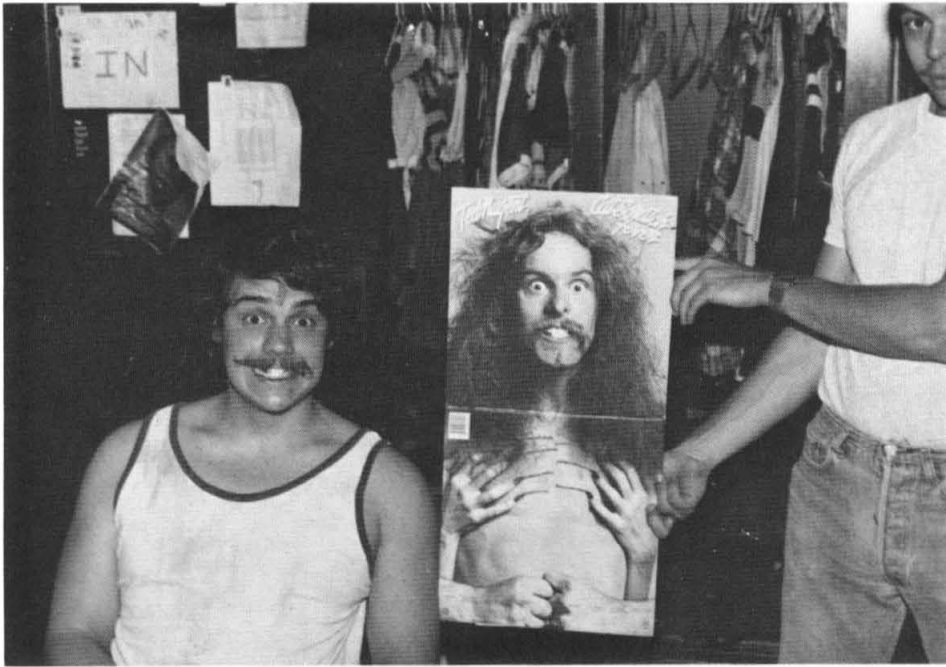
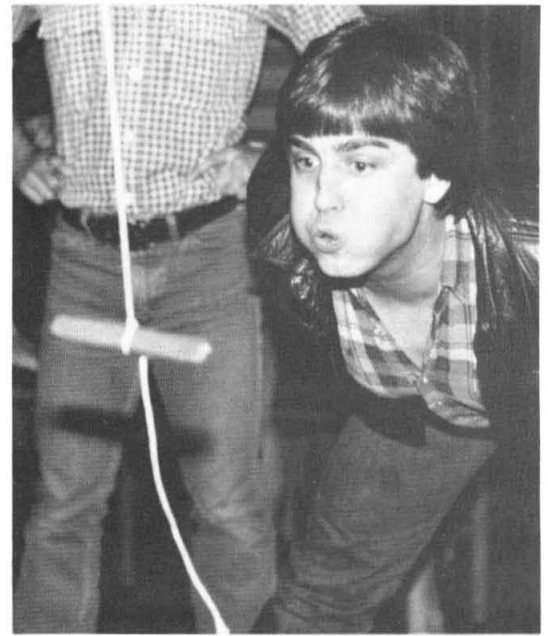


SENIORS II

John Quackenbush, Nick Gross, Jim McCuskey, Tom Murphy, Phil Albert.







LLOYD HOUSE



The Year

While it is generally agreed that the year did in fact begin, few have a clear idea as to exactly how. There was the necessary evil of Rotation, after which we washed and sanitized about thirty new frosh, gave them pizza and crossed our fingers.

The social team of Phyllis Li, Phyllis Li, and Phyllis "I like that frosh" Li then proceeded to ply the house with social events. Warlords Burt Gallup and John "Stick" Rostykus misplaced Ruddock's and Fleming's pool balls. Ball-less Fleming (in more ways than one) once again went beyond the bounds of decent retaliation and stole our TV set and pool balls and messed up our pool table.

We took our frosh to breakfast at Tommy's early in the day, and, no doubt feeling jealous at having been left out, the Fleming frosh came over *en masse* and we had a leisurely Flem wash (except that more Lloyd frosh got wet than Fleming frosh). Accidents happen.

Interhouse soon reared itself, and after recovering from the initial shock of building Interhouse early, Lloyd House joined the efforts of Alaric Clinton, Ross Berteig, Don Fossgreen, and Chip Meiling to build a damn fine Interhouse display. Sergay built the baked potato.

Corona, the land of Beautiful people, succeeded in throwing a great Halloween party. Tetsuo Fukuchi and Mark Pitt of Beserk Enterprises went all the way after the party—utterly beserk. Pitt spent the evening shouting "Whee" and tossing his shoes back and forth while Tetsuo made a pass at every wench in sight.

Second term brought that dreaded house meeting known as erection night—no, that can't be right—election night. Sergay Mnat-zakanian became Ayatollah, Jeff Clayhold became Veep, Elizabeth "I can't type" Newman became Secretary, and Praveen Asthana became Chancellor of the Exchequer, assisted by his pleasantries-exchanging roommate, Tim White.

Second term Lloyd showed spirit in sport—we creamed the other houses in tennis and did well enough in the other sports to win several Dicobolus points. Corona, the land of fair maidens and "Duh...who you calling stupid" men beat us in a volleyball challenge.

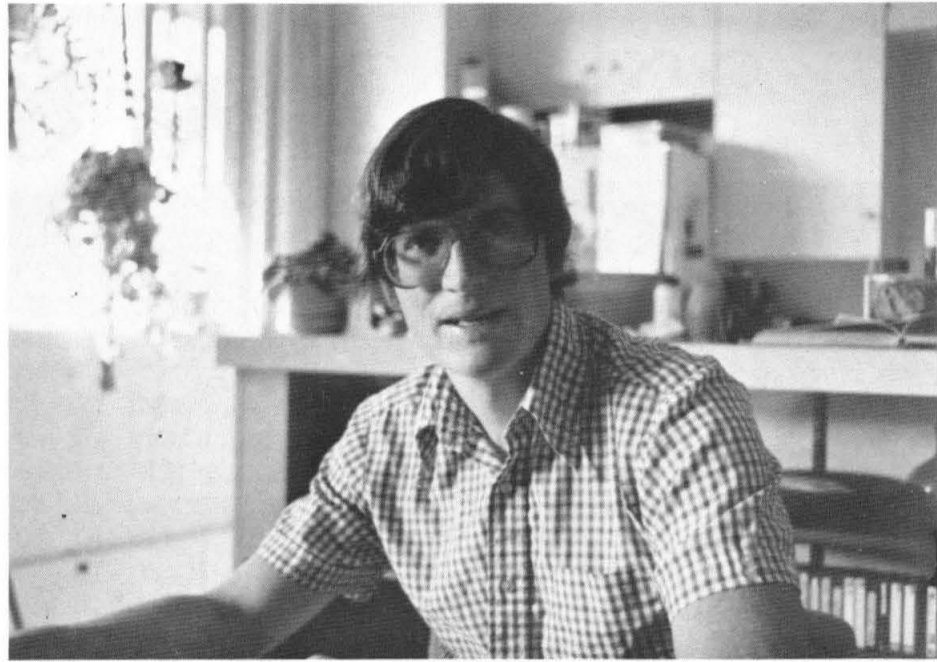
Third term brought forth that famous non-event, the Lloyd House Spring Extravaganza, which didn't occur this time because of

pressure from the CalTech administration. So, instead, with a little encouragement from Inferno, we ran through the other houses informing them that they did in fact suck quite a bit.

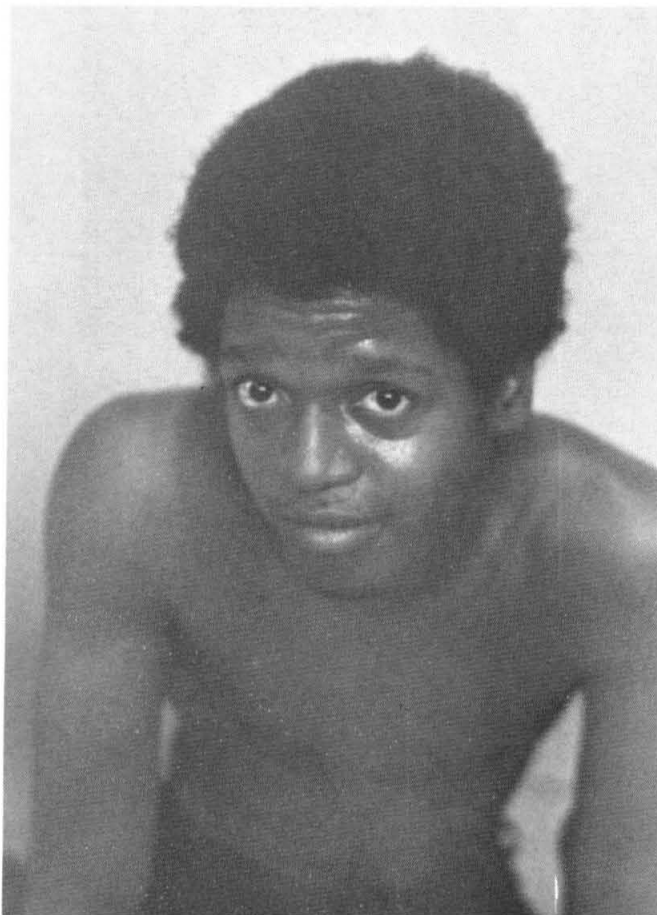
And once again, Corona, where women blow and men plunder, challenged the rest of Lloyd to a sport—soccer this time. With a little help from "Pele" Movshovich, Corona was defeated. We had to buy them a keg of beer to console them. Brion said it was to stop Charlie Strauss from crying. Meanwhile, back at the house, Brian Lund (who?) was this year's invisible frosh though most Loydies wished there were a couple others like him too.

Special commendations this year go to the social team, John Rostykus, Jeanine Gainey, and Alaric Clinton for the magnificent work they did in providing social events for the house, Takayama for looking after the coke machine, him and Kawamoto for cleaning the Library, Bob Shore for not being here most of the time, and Dave Gallup and the KELROF runners who did over 205 miles, proving that they were fairly daft but studs anyway.





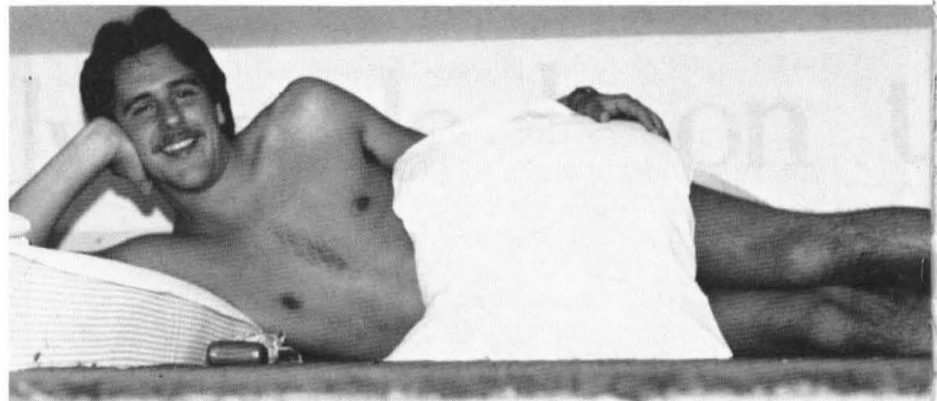
Robert Hill Our Illustrious RA's Despite the handicap of being Sally Rigden Furriners, they were all right.



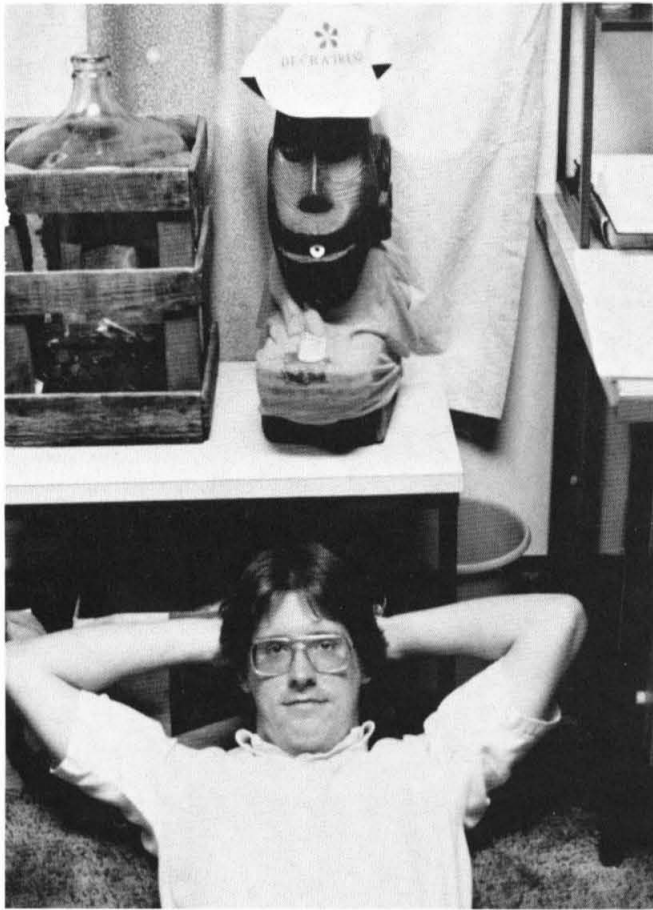
Ron in cute mode.



Our President- one hell of a real cool Ayatollah.



Good night John-Boy.



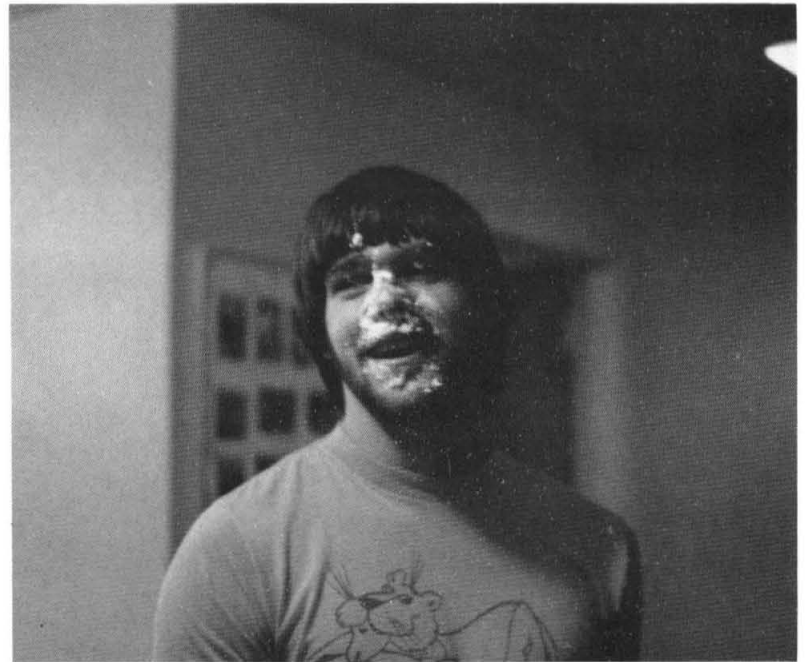
Note the resemblance.



And the correct answer is Liz Newman's nose.



Hey Man, I'm ready.



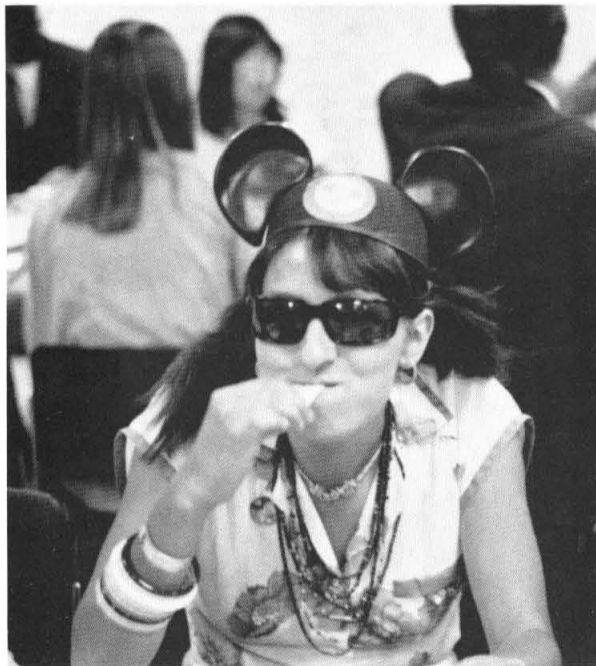
Cake in the face.



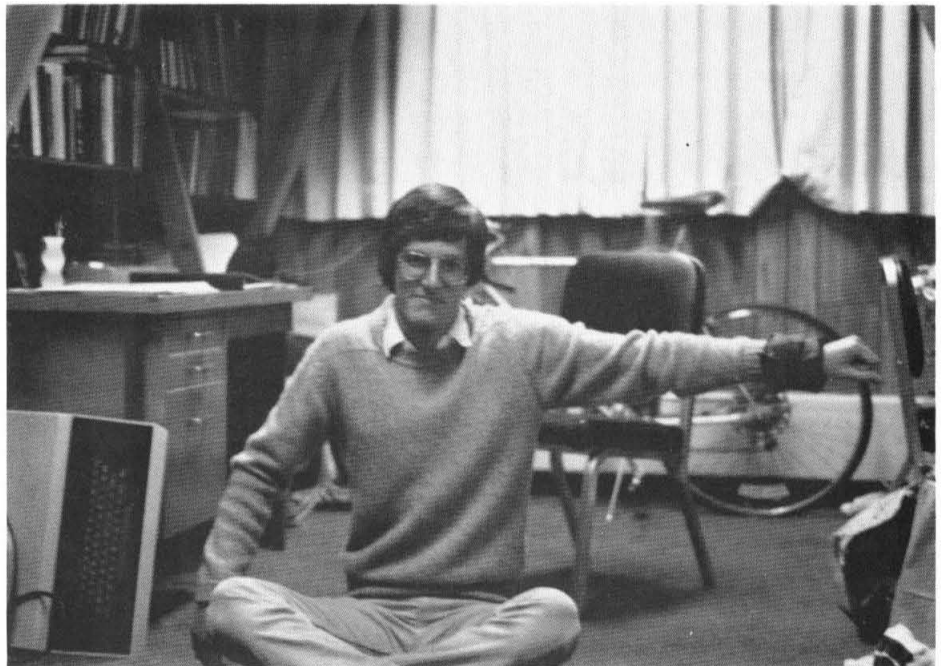
Elizabeth Newman



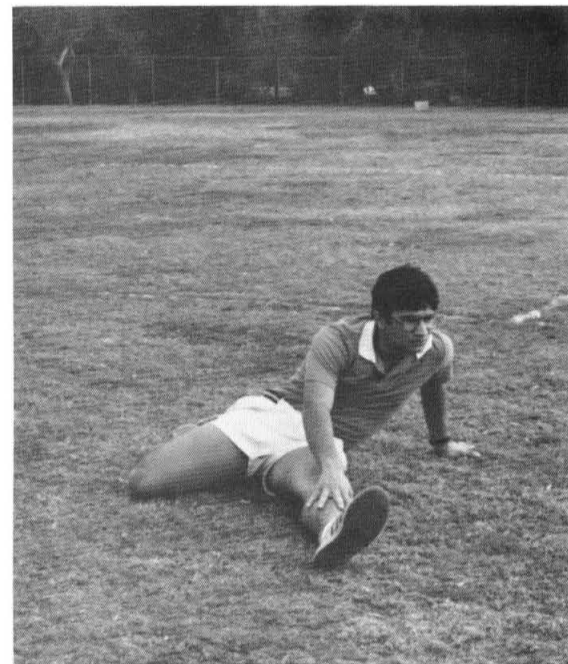
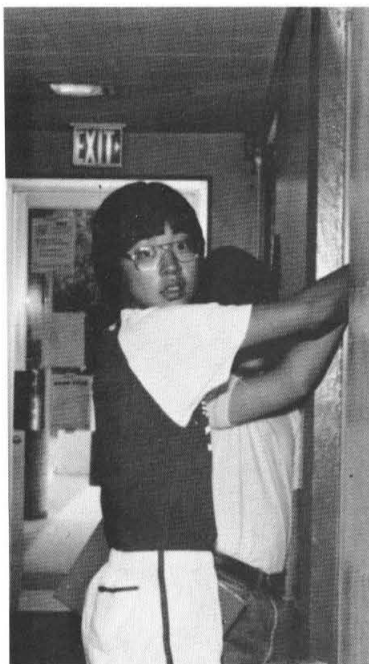
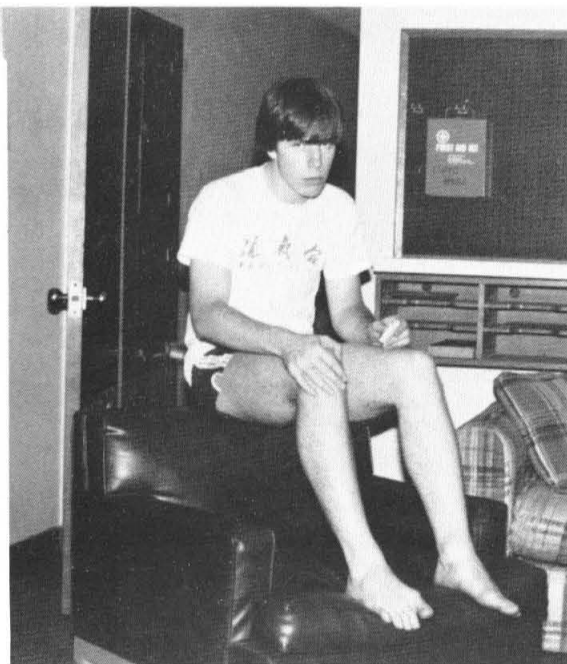
Mehrdad, after being Treasurer for 6 months.



Elizabeth Newman



Scott Paine studying for his driver's exam.





The good thing about bananas is that they have no bones.



Part of our ongoing effort to ridicule Julian West.



King Mikey (The Jew)

... and his adulatory, well fairly adulatory, flock.



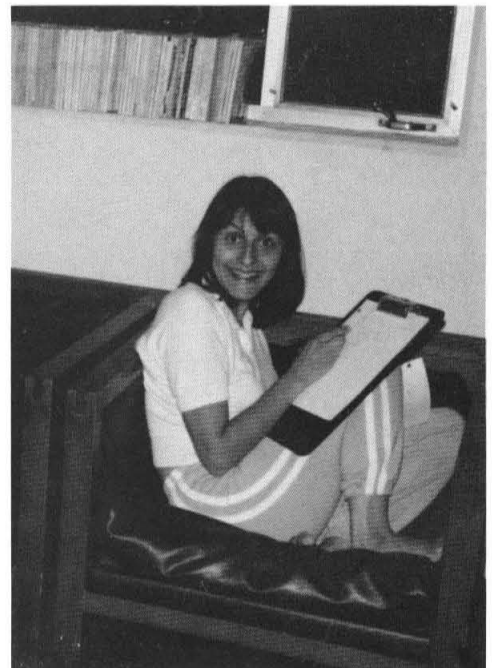
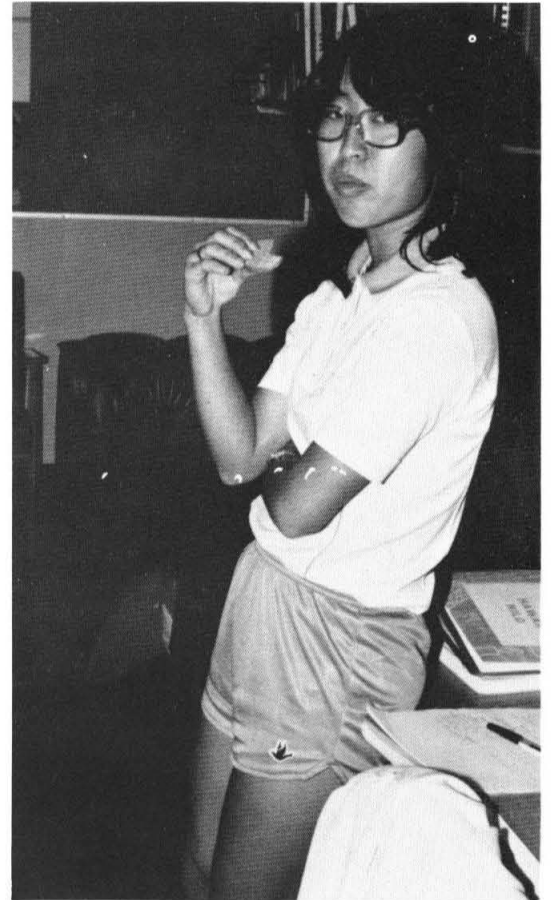
What do you mean it's not Ditch Day today?



THE CALL....

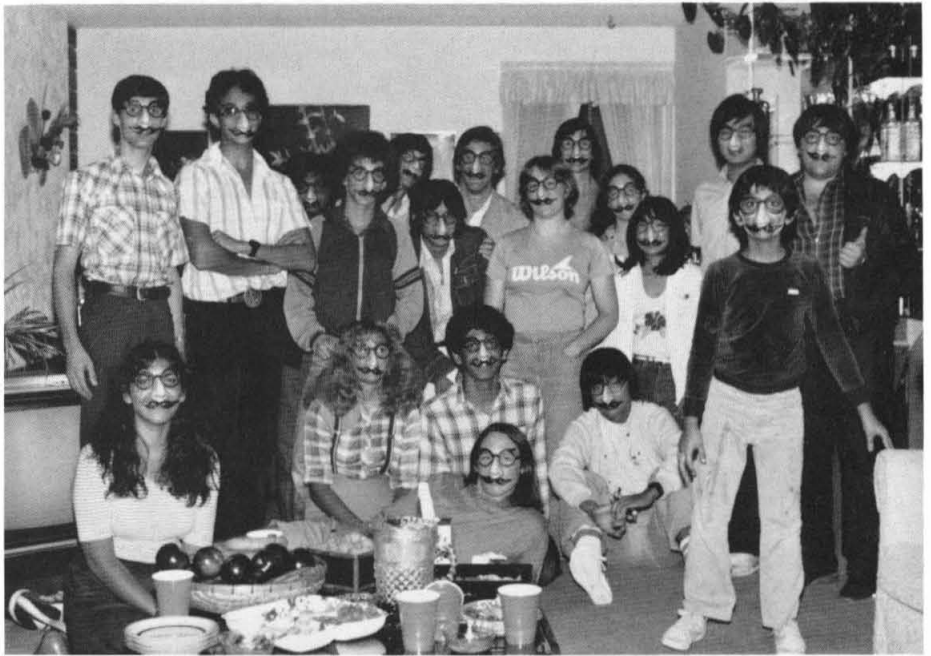


.....and those who responded

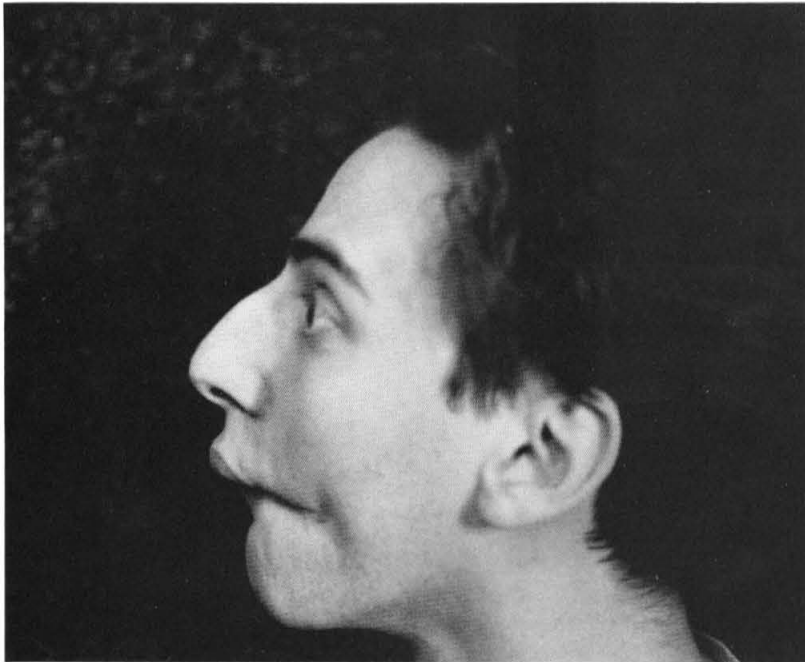




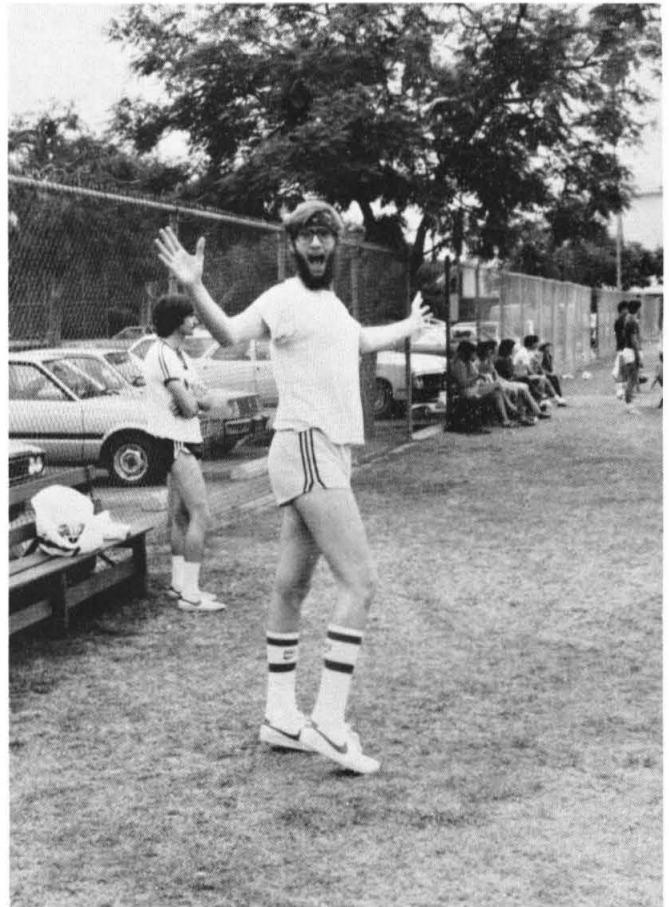
The Ernie S. Cohen Memorial Nose



The Ernie S. Cohen Memorial Fan Club



Ernie S. Cohen



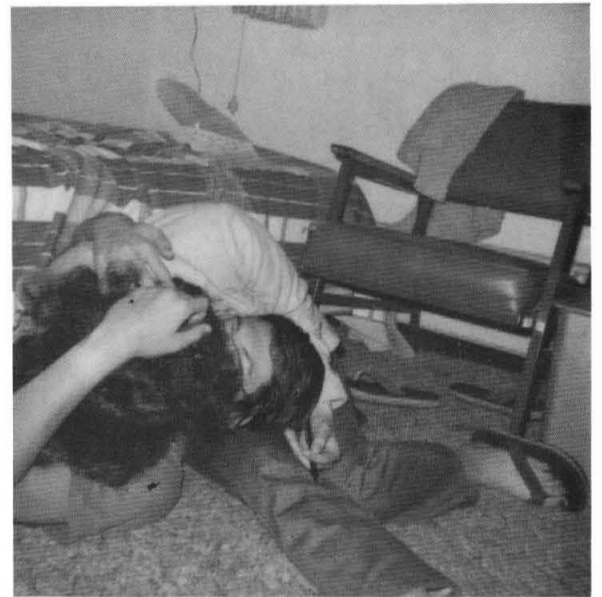
Jim Kennedy and his famed about-to-get-hit-by-a-bus expression.



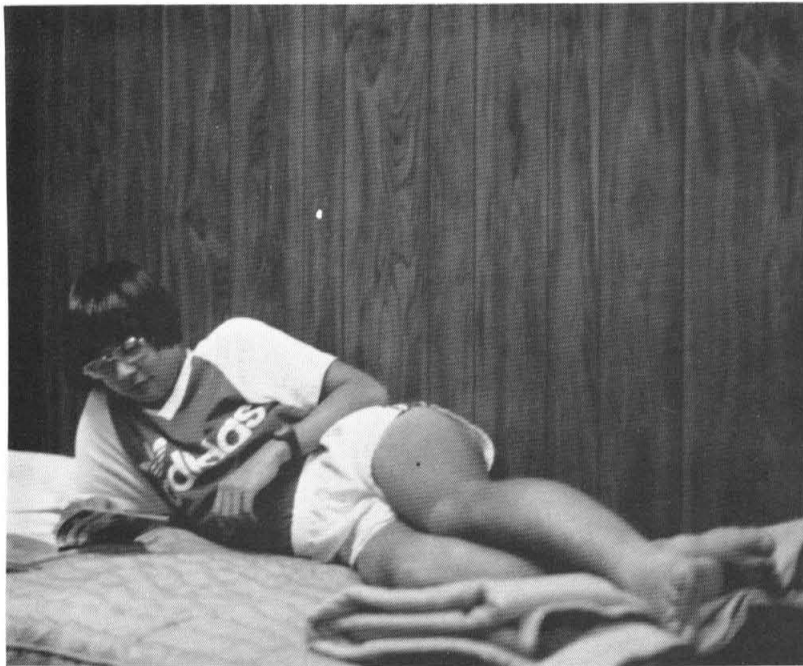
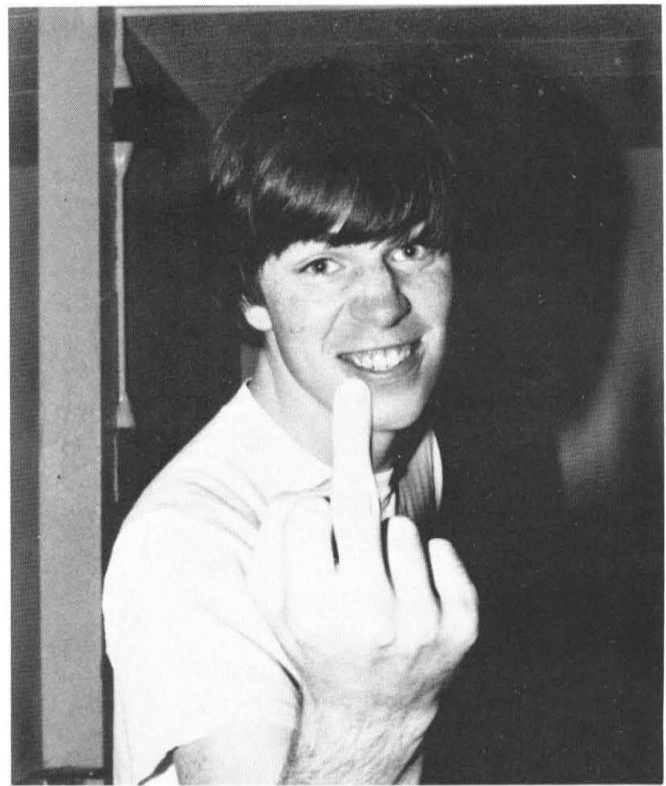
Norman Baatz with yet another question on linear spaces.



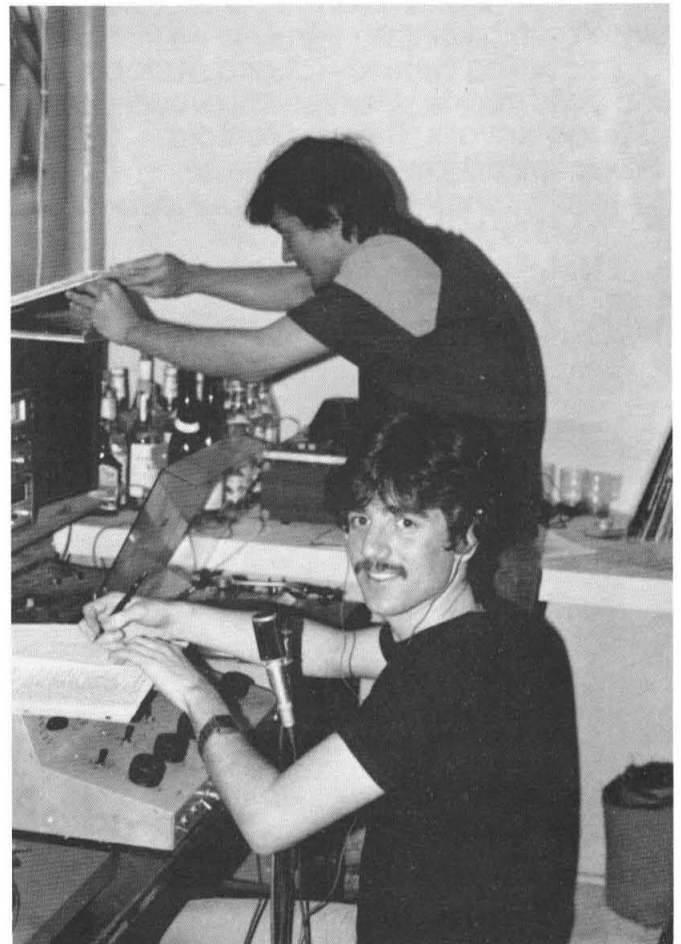
First attempt.



Bingo



Hotleas Hashimoto



On the Air—Greg "The Man, The Year, The Show" Bala, one of the more obscure residents of Lloyd House, was DJ on KKAL on Saturday nights, with Joe Burfoot as engineer. He pretty much catered to the tastes of Lloyd House, his loyal audience, but also played some novelty songs, such as the Water Special.



And we took the frosh to breakfast.



Freshmen

L to R (Front)—Diana Foss, Harold Felton, Robin Wilson, Ashok Krishnamoorthy , Sanjay Agarwal, Yosufi Tyebkhan.

Kneeling behind—Takako Matoba, Dave Gallup, John Rostykus — — Sandra Lee.

Followed by—Andrew Swanson, Tammy Choy, Jeanine Gainey, Norman Baatz, Salman Mitha, Joe Kovalik, Theron Stanford.

Followed by—Brian Bohn, Joe Whirtley, Mark Jacobson, Ross Berteig, Myles Susman, Gordon Smith, Brian Lund, Min Su Yun.

Also Pictured—Stuart Ray.

Not Pictured—Chris Chen, Jack Ausman, John Bruckner, Rodney Van Meter, Karen White, Amy Yoshida, C. D. Yoo.



Sophomores

L to R —Irene Replogle, Chris Tiller, Alaric Clinton, Hojin Ahn, Phyllis Li, Ed Casey, Brett Garrett, Creighton Asato, Mark Pitt.

Standing—Tetsuo Fukuchi, Tad White, Susanna Chan, Andy Hall, Eric Kawamoto, Paul Stankus, Steve Nixon, "Muncher" Ken Adelman, Jeff Freymueller, Dan Briggs, Steve Roy, Christos Kyriakakis, Tim White (no relation to Tad White), Richard Regan.

Not pictured—Praveen Asthana, Carl Masser, Marty Hunt, Hod Greely, Russel Graymer, Paul Haase, Cathy Hayes, Mike Takayama, Jim Kennedy.



Juniors

Sitting (L to R)—Greg Bala, Ali Kazeroonian, Elizabeth Newman, Lee Sunderlin, Robert Kelly, Lisa Nikodym.

Not Sitting—James Bell, Jeff Clayhold, Joe Frisch, Roy Hashimoto, Scott Paine, Joe Burfoot, Ted Williams.

On the Other Side—Thad Conneally, Don Fossgreen, Lucy France, Joseph Francis, Mehrdad Haghi, Kirk Haselton, Brion Hutton, Steve Martin, Debbie Mathews, Sergay Mnatzakanian, Kathy Sheedy, Steve Trainoff.



Seniors

Here(L to R)—Ron Francis, Chip Meiling, Richard Mathews, Charlie Strauss — — John Humphrey, Tom Christian, Vivek Joshi, Lyn Marie Thompson.

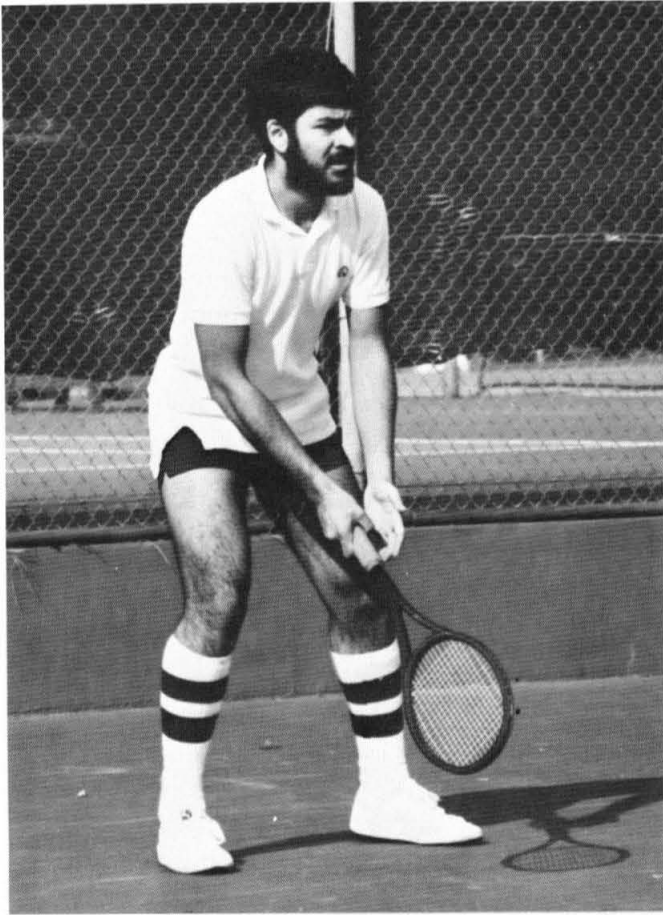
Not Here—Charlotte Clark, Tony Conneally, Drew Cushman, Matt Duiker, Jackie Fernandez, Mike Fernandez, Brian Horn, Dan Kostka, Roman Movshovich, Thiti Veipas, Keith Warfield, Jeff Yu.

Inter- house

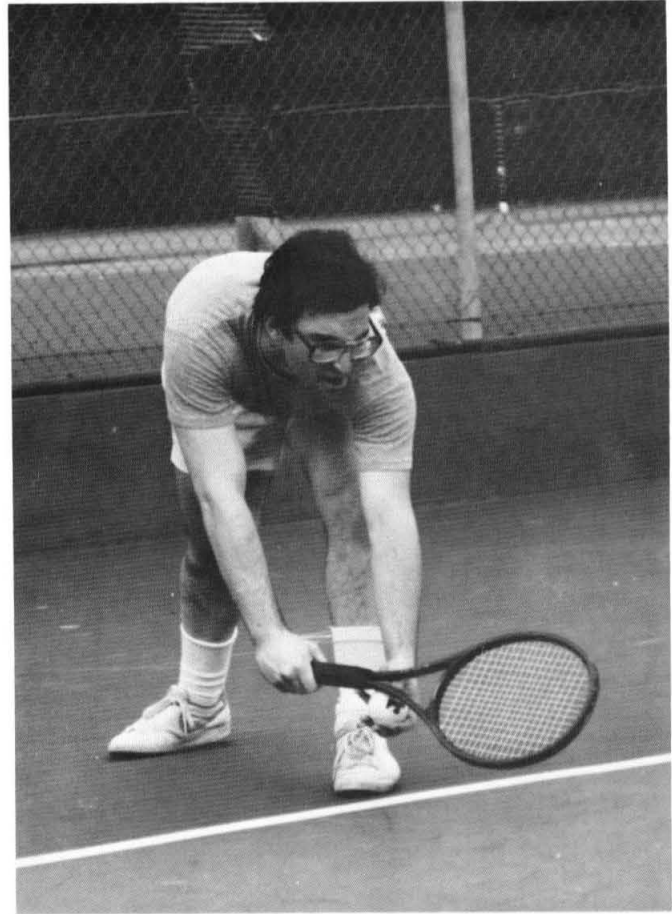
For Interhouse this year, the members of Lloyd selected the theme "Restaurant at the End of the Universe". The idea was essentially to set up a place for eating and dancing with a futuristic spacelike atmosphere. A visitor would enter the front door, pass through a gas-filled time warp, and end up in a combination restaurant/dance hall. The design by Alaric Clinton consisted of covering Inferno and Creek alleys as well as the lounge and dining room with black plastic, decorated with stars, galaxies, and other works of art; the alleys served as the time warp, the lounge as the restaurant, complete with bar and hanging tables (built by Marty Sirkin), and the dining area was cleared for dancing to music provided by Joey Francis. In the courtyard was created a launching pad. Built under the direction of Ross Berteig, Work Chairman, this year's Interhouse was felt to be one of the finest Lloyd has ever had.



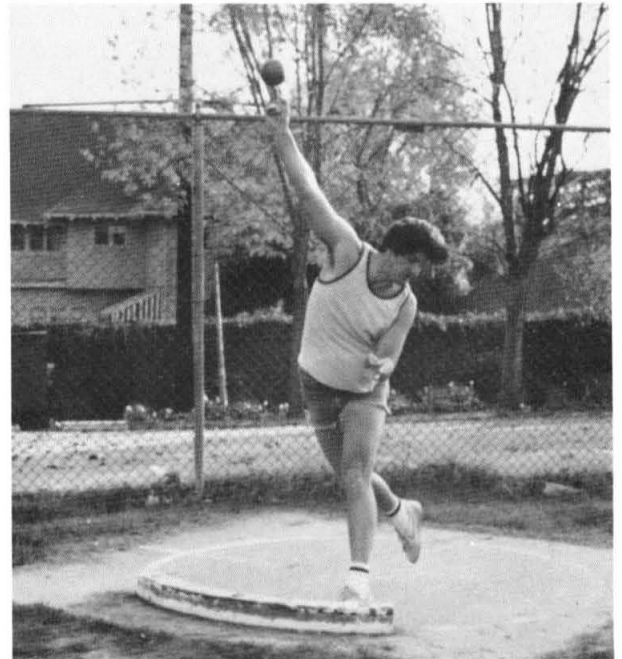
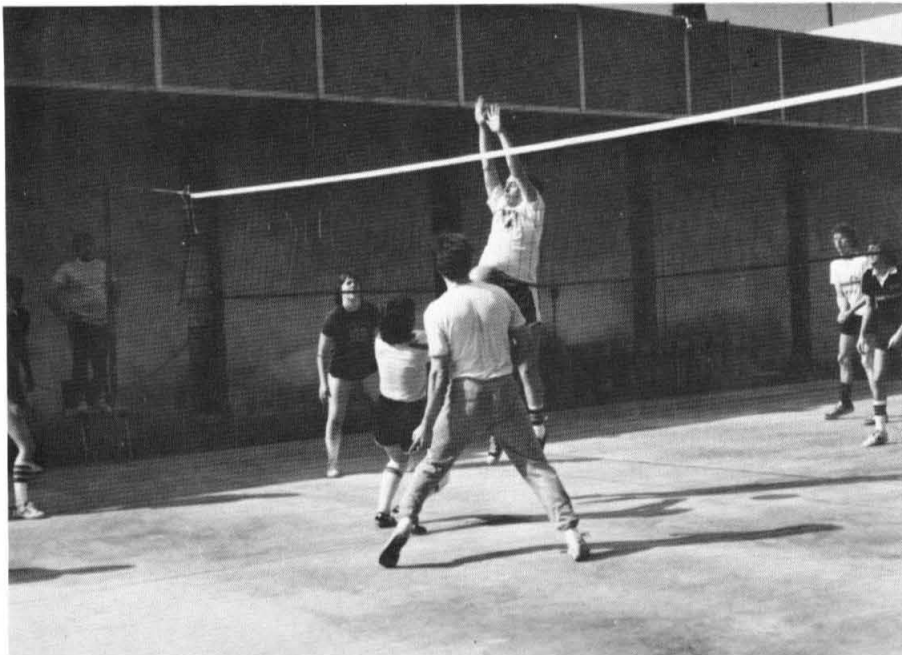
SPORTS



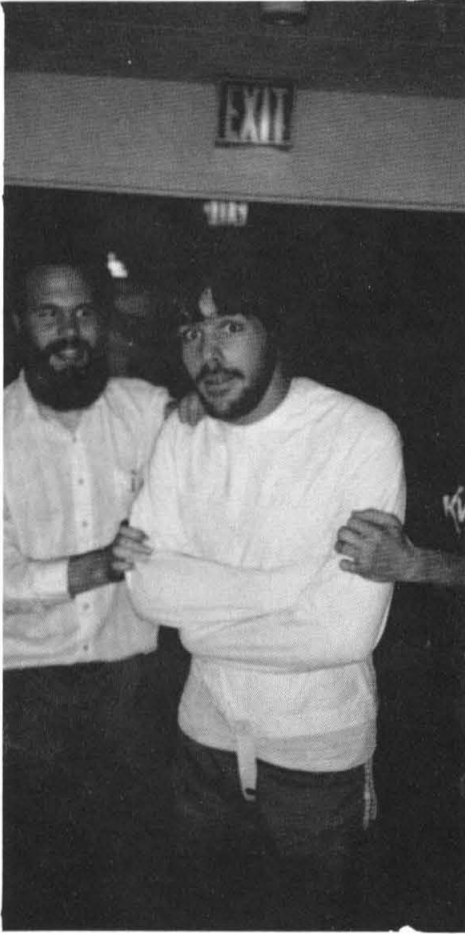
You going to serve or what?



Wait, I think my back is stuck.



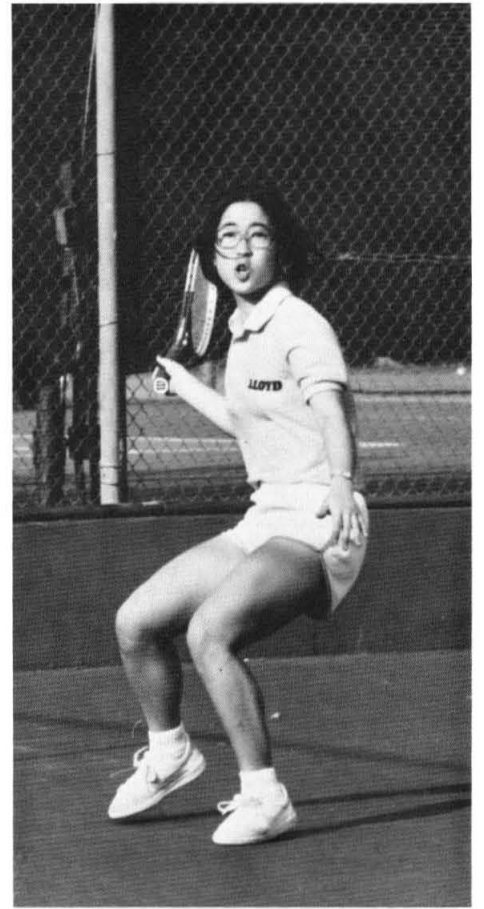
This was the year that Lloyd won 3 out of 4 Discobulus challenges (two in football and one in basketball) and marked the first time in four years that we ever had the trophy. In Interhouse sports we faired adequately in soccer and football, but the big story was tennis. For the first time in longer than anyone cares to remember a house other than Page or Fleming won an Interhouse sport outright, and it was us! Led by Ron Francis and Matt Duiker, Lloyd stormed to a 6-0 record while losing only 3 matches. Although Ron and Matt are graduating this year (they hope), an athletic group of freshmen and sophomores hold promise for the future.



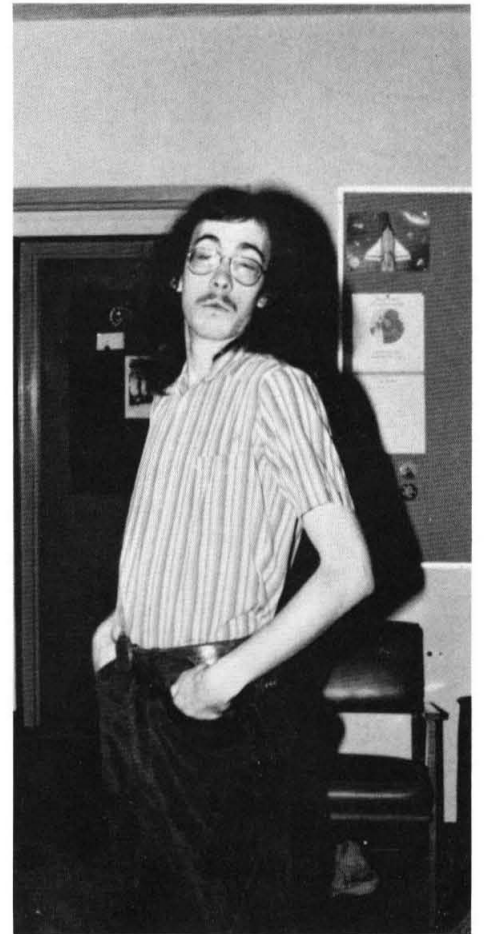
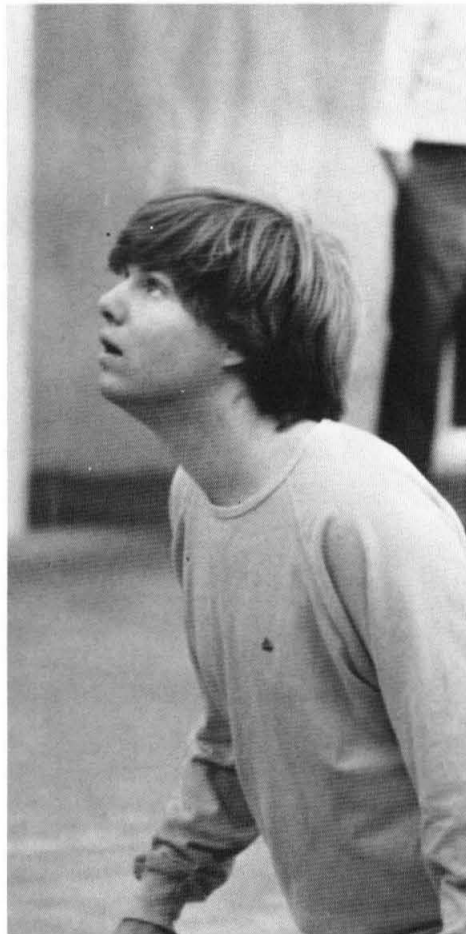
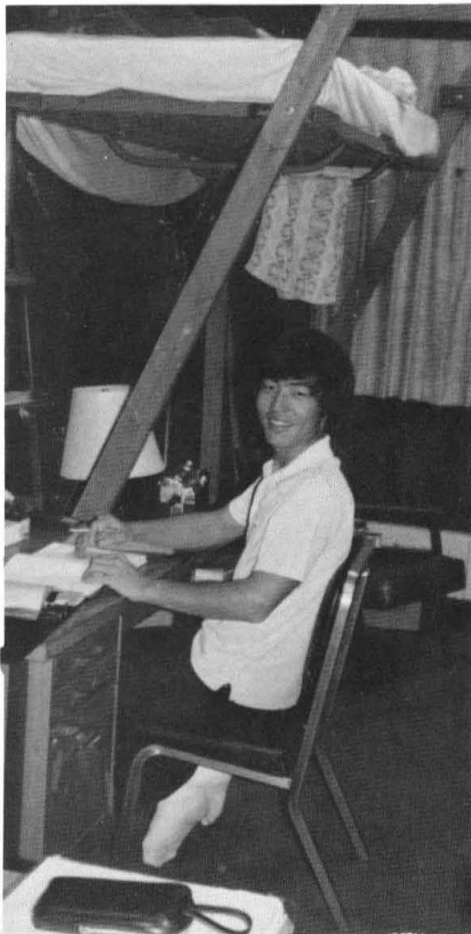
Just 'cuz I said I like Chem I.

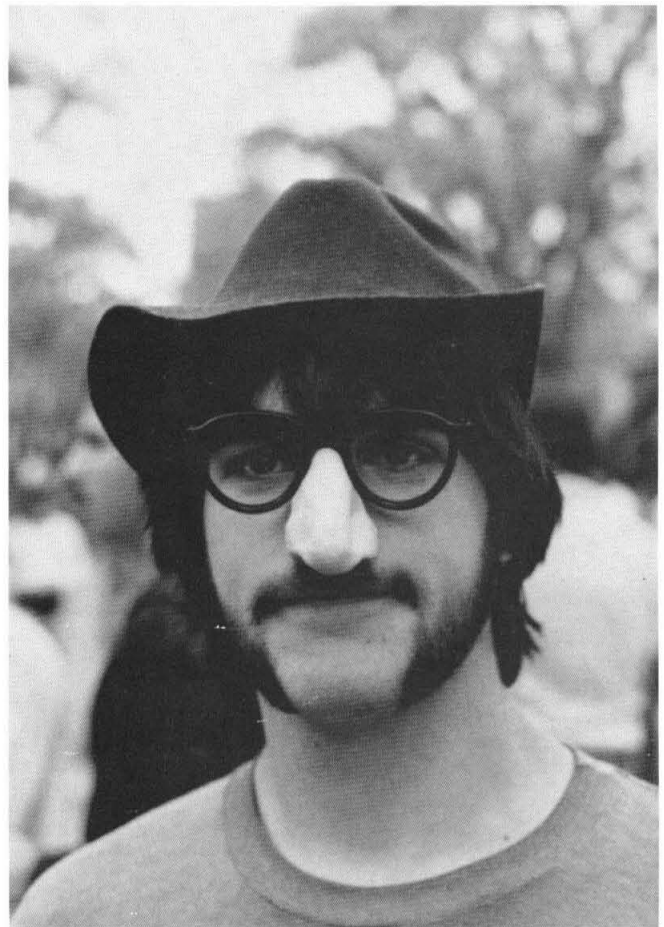
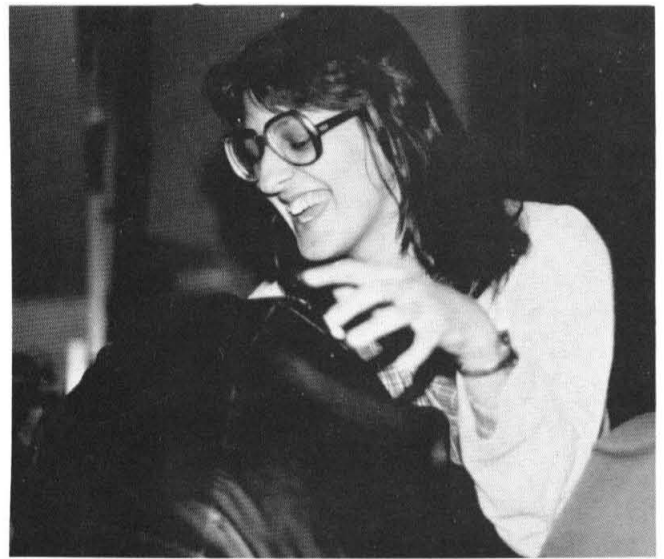
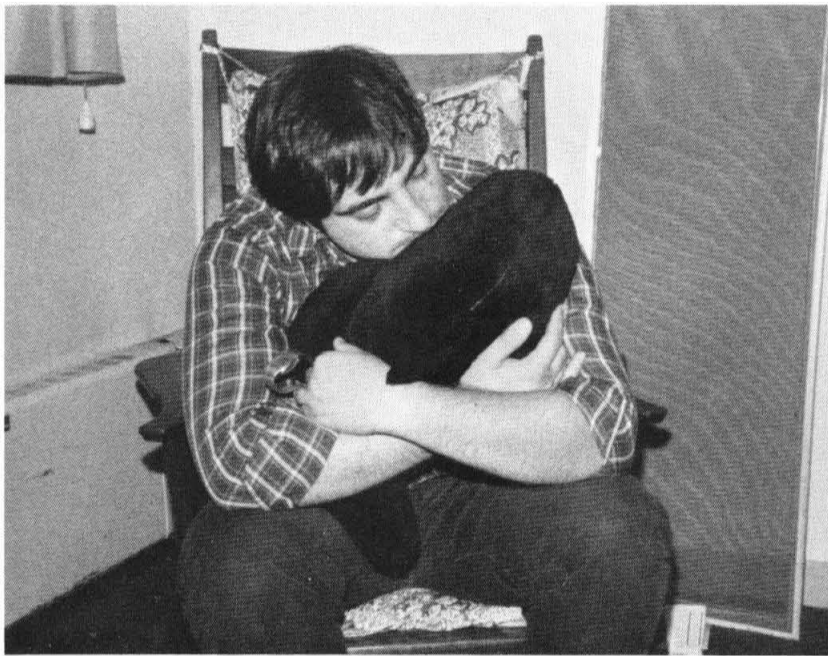


Come on, try it! Please.....



Tammy Austin.





Credits

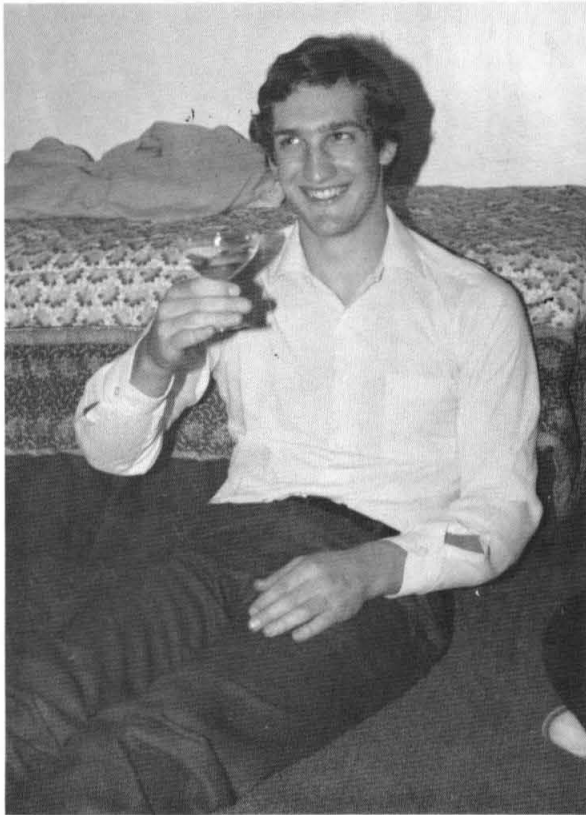
Section Editors:
Praveen Asthana
Theron Stanford

Photographers:
Praveen Asthana
Sergay Mnatzakanian
Robert Hill
Brett Garrett
Norman Baatz

Special Thanks to Roger Fong for
Darkroom and Typesetting work.



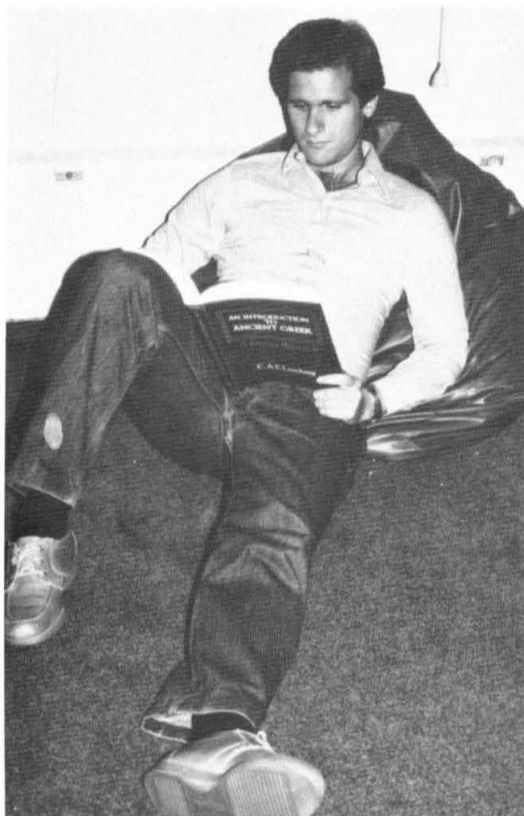
Ruddock House



HOME of

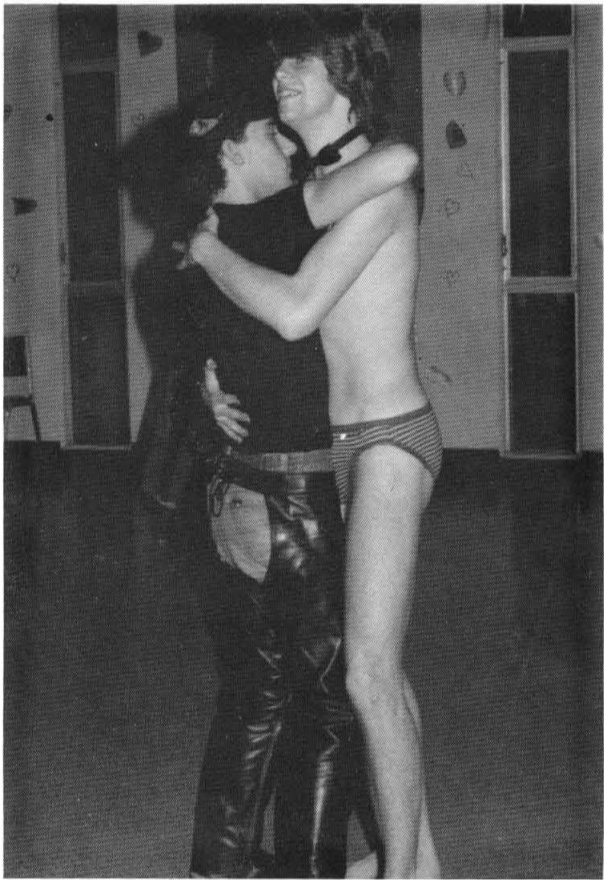


Gods AND

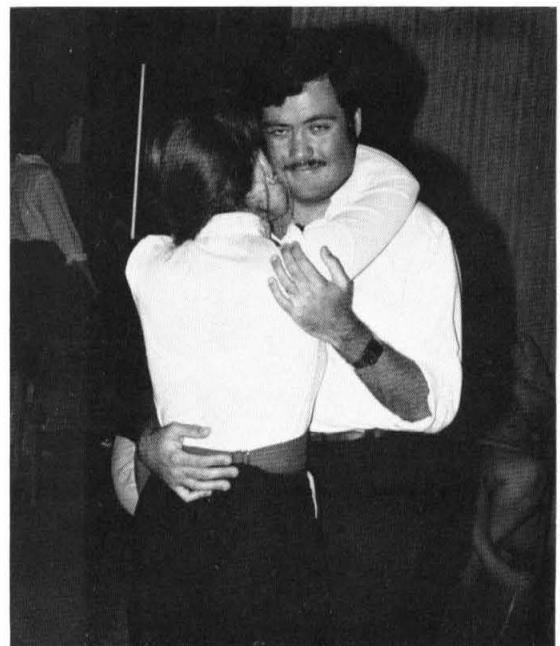
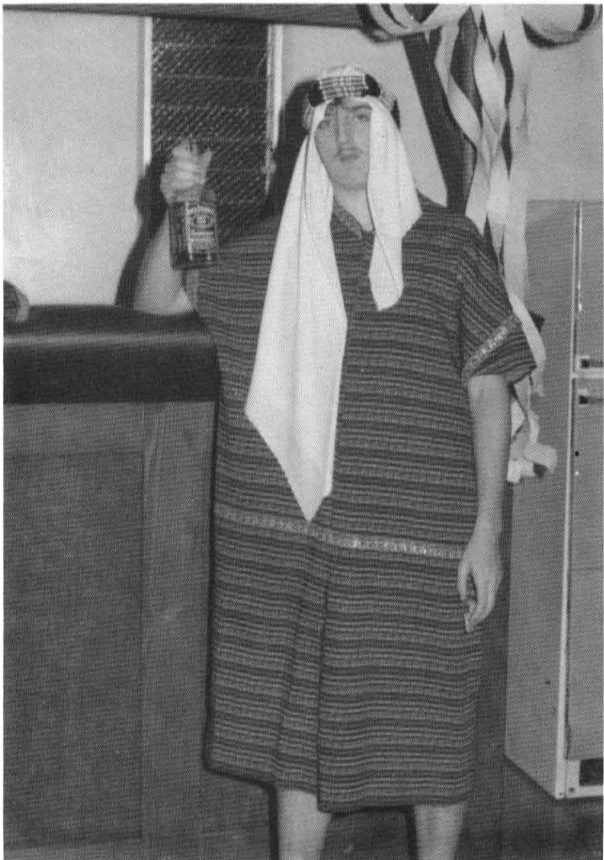


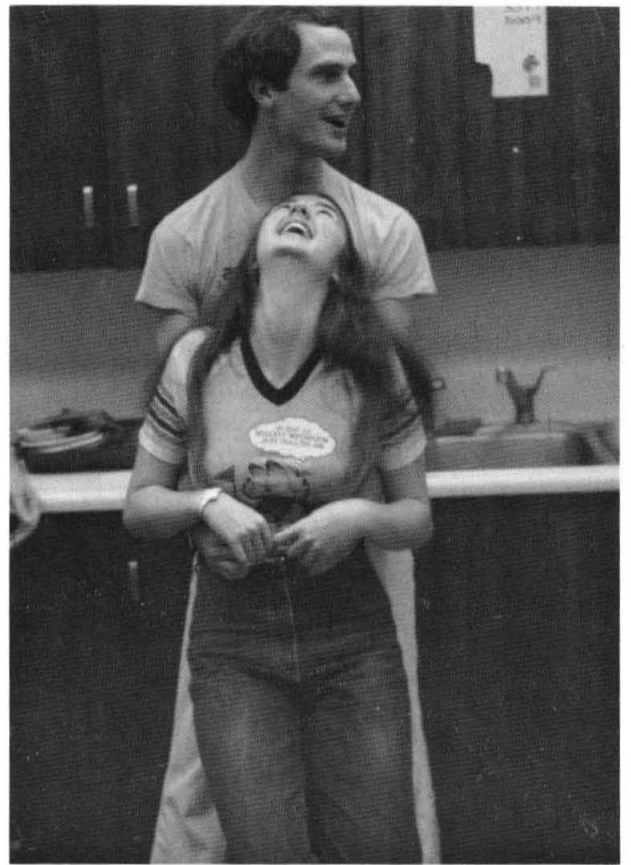
WARRIORS



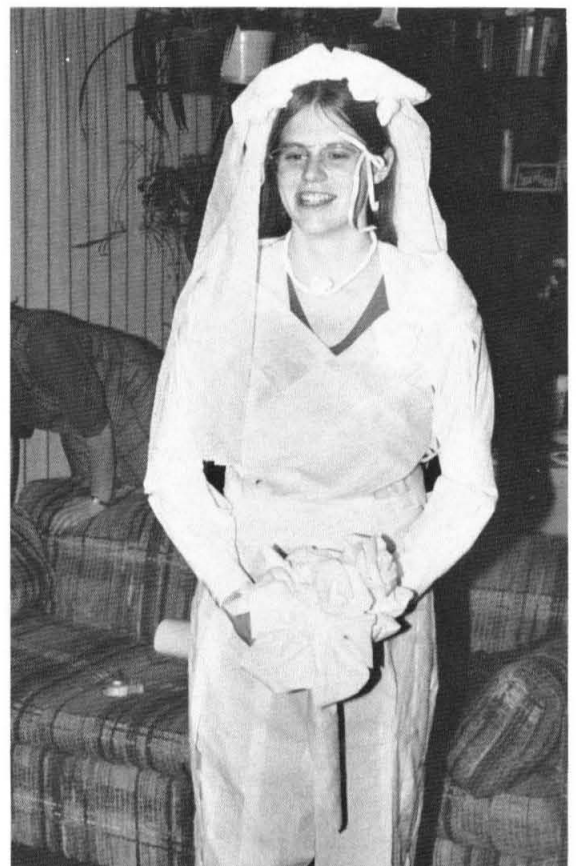


**AND MEN WHO
CAN HANDLE IT**





**AND WOMEN WHO
CAN TAKE IT**





Tracy "Chicken in Flight" Petersen



Take this, Alaskan Scum!

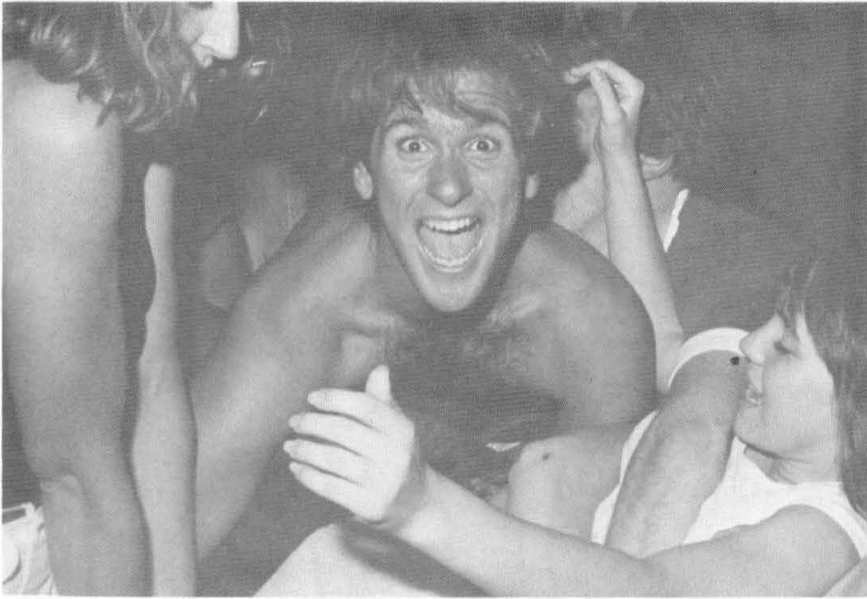
The closing days of summer are a call to the faithful, both wizened upperclassmen and wide-eyed frosh, to Caltech. For each, the feeling is different, seniors find a long awaited goal only a few short months away; juniors are resigned to their fate; sophomores face grades with trepidation; while frosh mix anticipation and anxiety in nearly equal parts.

In Ruddock, summer-honed, random, questions confuse frosh more than Chem I; while rotation meetings bring on calls for more singles. Nevertheless, a new frosh class was chosen and welcomed in the traditionally soggy fashion.

Some people have to be forced to stay on board contract.

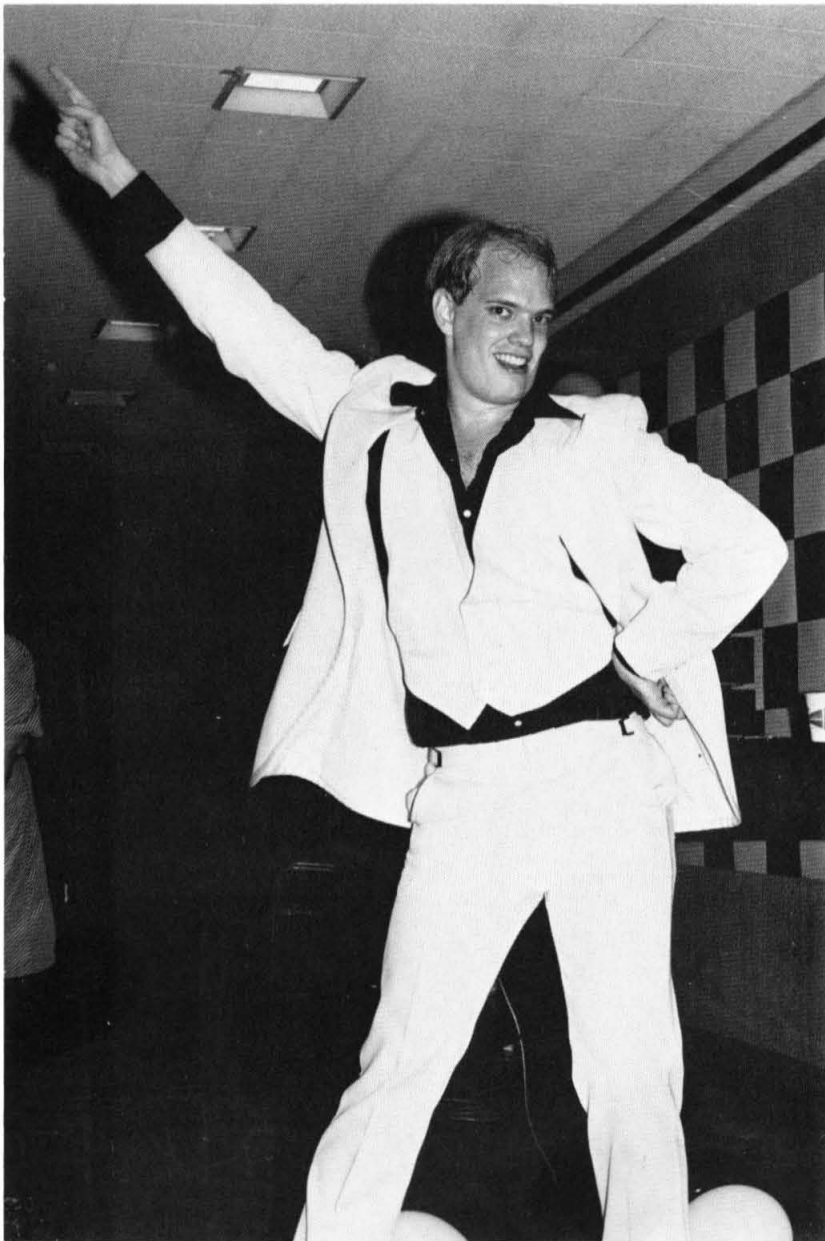
My hand is **not** stuck in the drain



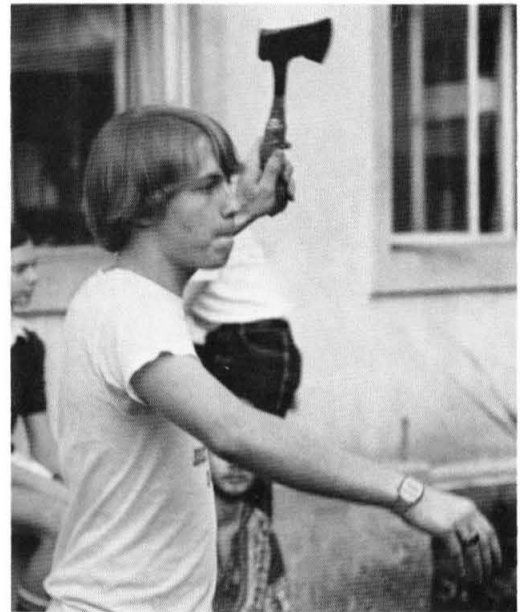


ORGY!

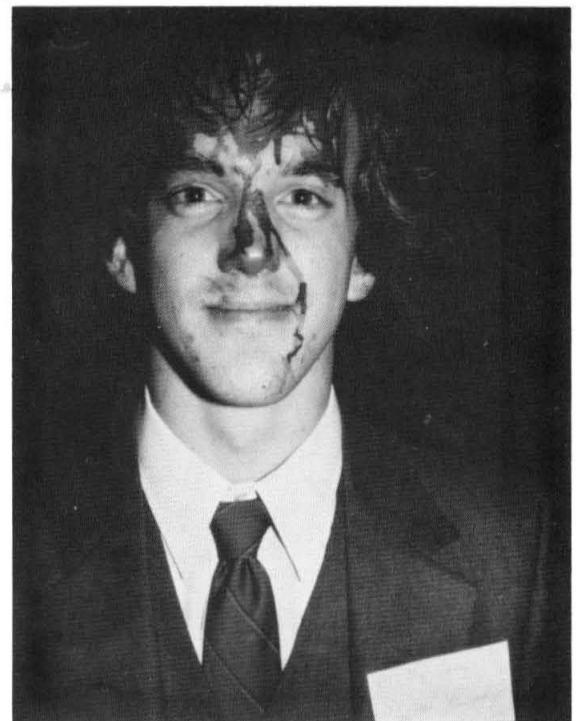
John Revolta



Don't hit the "vans".



Yes Carrie, I enjoyed the Prom.





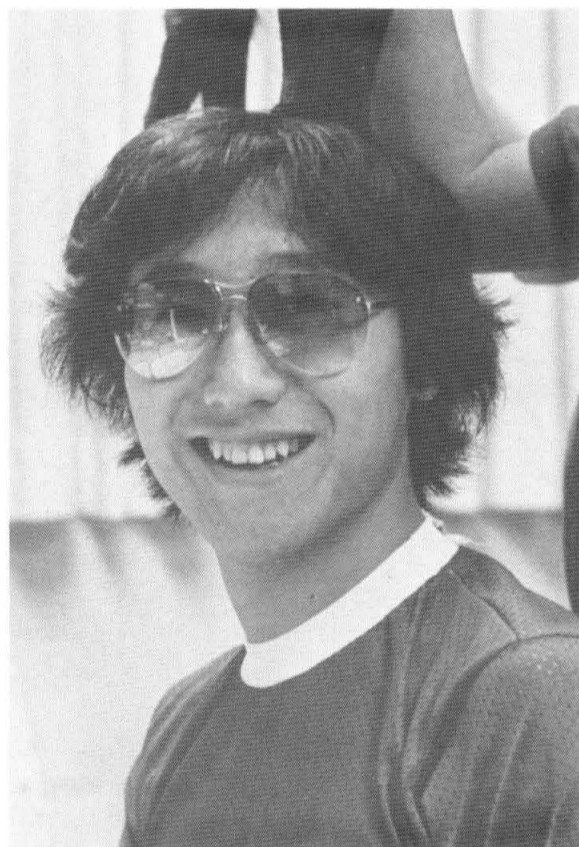
*Alright folks, time to pay those bar bills.
Tracy, how could you.*



Wheee



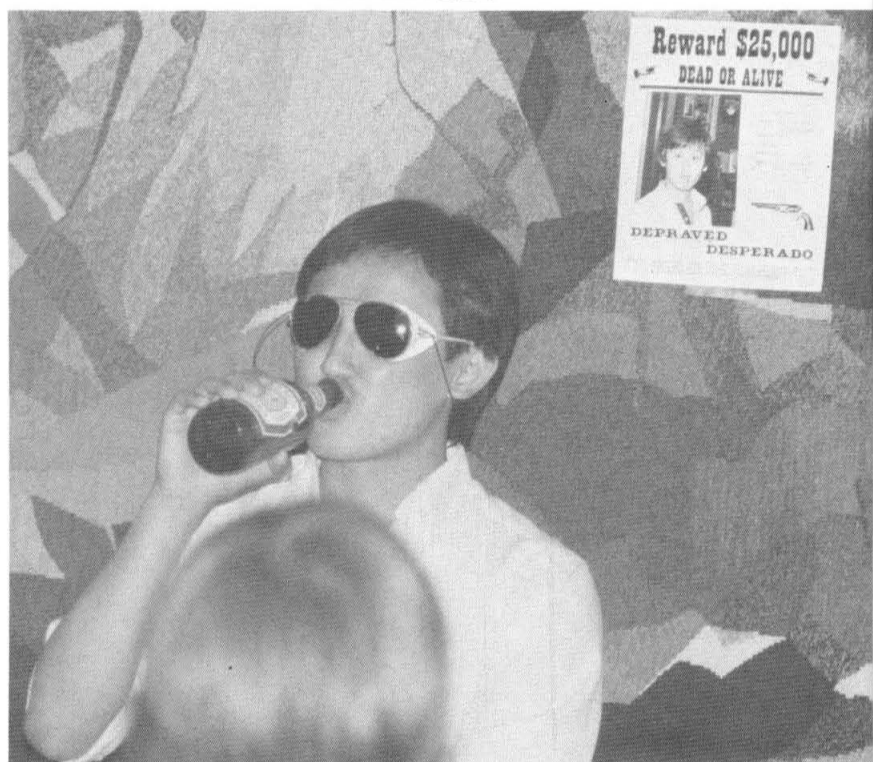
This one didn't pay his bar bill.



THE OLD EXCOMM

Front: Sue Gross (Soc.), Frank Evans (Soc.), Mike Curtin (Ath), Pete Lim (Treas), **Back:** Tom Sim (Veep), Ri-Chee Chou (Pres), Evan Cromwell (Ath), Elton Inada (Sec.), Glen Crawford (Lib.), Anne Sauter (Soc.)

WANTED!



THE NEW EXCOMM

Front: Dierdre McClure (soc), Larry Meixner (Pres), Cinsy McCalley (Veep), Josh Susser (soc), Karyn Betzen (soc), Joe O'Donnell (Tres), **Back:** Tracy Petersen (lib), Jim Helgren (Ath), David Sahnaw (sec), Drew Lindberg (Ath).



Presidential Evolution

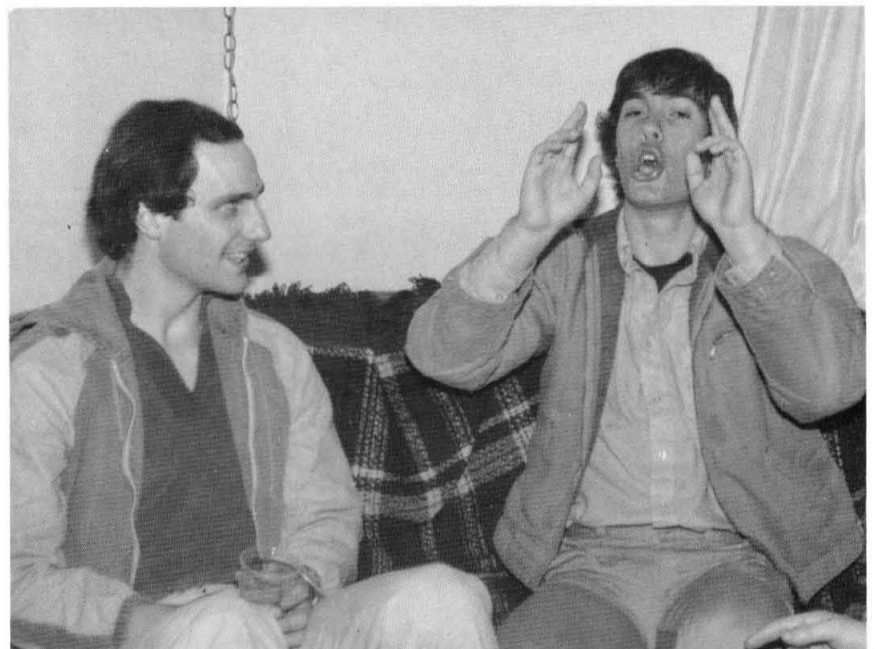
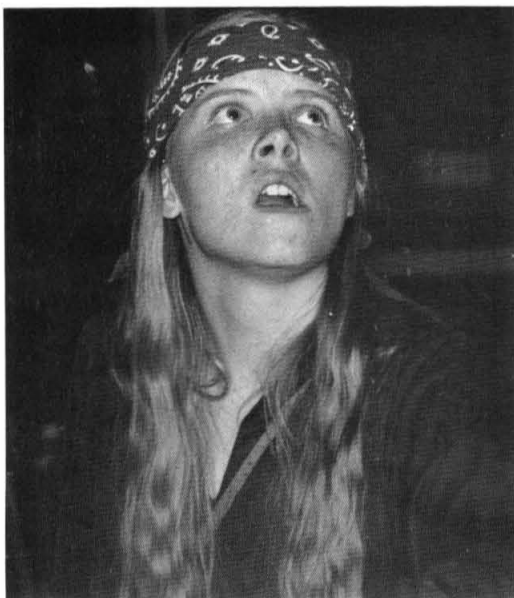
UCC's

A.J. Capowski (4)
 Jeremy Leader (6 pt II)
 Chris Cotterel (S.G.)
 Mike Weston (6 pt I)
 Tom Berto (1)
 Paul Kinker (5)
 Don Smith (3)
 Jay Rickard (2)





House Wimps (l to r): Tom Sim, Kevin Hughes, John Behr, Jay Rickard, Ich Sugioka (behind Jay), Don Smith, Mark Maier, Chris Jacobs, Greg Favor, Anthony "Julian" Capowski, Wendy Rasmussen, Tom Berto, Scott Johnson, Mark Cornell, Elton Inada, Paul Kienker, Alex Leibovick, Tim Williams, Mike Weston, Mike Mettille. **(LOST IN THE RUSH)**: Carla Ahlstrom, Loren Alving, Mike Becker, Ri-Chee Chou, Ken Chow, J.P.Clejan, John Cramer, Kaitlin Drisko, Frank Evans, Lisa Flitz, Ron Gidseg, Mary Heinrich, Tom Hensel, Cecile Huling, Paul Johnson, Jeremy Leader, Dan Lenoski, Lyle Levine, Andy Liu, Don Lo, Maclen Marvit, Ed Miles, Vince Powers, Bev Robertson, Cheryl Robertson, Rusty Schweickart, Ken Seibert, Cyndi Shaver, Becky Sheets, Steve Shin, Ken Schrum, Rod Thompson, Camilla Van Voorhees, Walter Wuensch.





The Way It Was

House Wasted Union (l to r): Don Cohen (Honorary Junior), Brian Lau, Matt Swass, Dave Fun, Joe O'Donnell, John Fong, David Sahnou, David Marvit, Glyn Anderson, Darrell Schlom, Larry Meixner, Evan Cromwell, (**Other Casualties**): Stephen Anco, Theresa Birdseye, Johanne Bolduc, Daniela Bonafede, John Chang, Jim Drake, Louis Godbout, Charles Hershey, Morry Katz, Greg Kavounas, Irwin King, John Mahoney, Brad Marston, Robert Martinez, Candi McCoy, Mike McDowell, Niels Michelsen, Anthony Miller, Robert Murphy, Paul Munro, Dave Newhall, George Pitt, Steven Riley, Kelley Scott, Glenn Seidmann, Paul Shaffer, Jon Shapiro, Doug Shors, Tony Skjellum, Chris Stassen, Clare Stassen, George Tolomiczenko, Harold Weiser, Todd West, Guy Wisenrakkit, Dave Zobel, And yours truly, Steve Swanson.

The Way They Wanted It

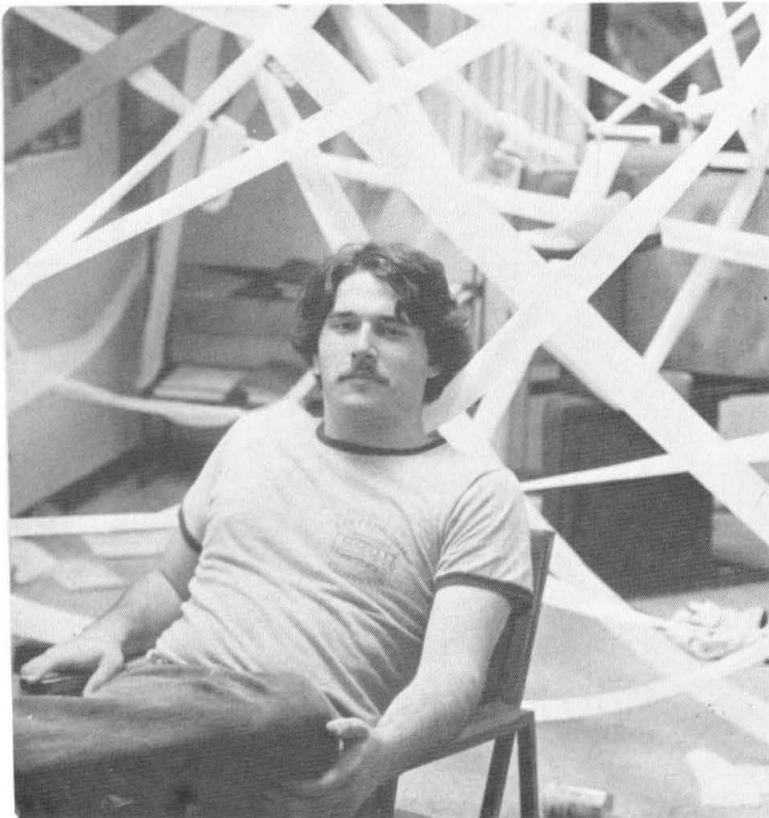




House Zip's (l to r): Karla Peterson, Anne Sauter, Glen Crawford, Louis Cuellar, Jason Hickey, Chris Cotterel, Doug Simons, Anirvan Ghosh, Ken Chan, Aaron Roodman, Doug Evans, Peter Lim, Cinsy McCalley, Paul Graven, Elliott Lowy, Dave Ruhde, Mark Adams, James Dunn, Brad Lincoln, Brian Bush, Mike Curtin, Mark Lewis, Stan Bielfelt. (*Under water*) Ian Anderson, Jim Chen, Pam DeMoor, Faye Flam, Jeff Freymueller, Russ Graymer, Glenn Gribble, Sue Gross, Nathan Hood, Bryan Howard, Karen Kurowski, Larry Liu, Bob Myers, Tan Ngo, Eric Olafson, Teresa Solberg, Steve Thomas, Fu-Sheng Tsung, Julian West, Lily Wu, Christine Yu.

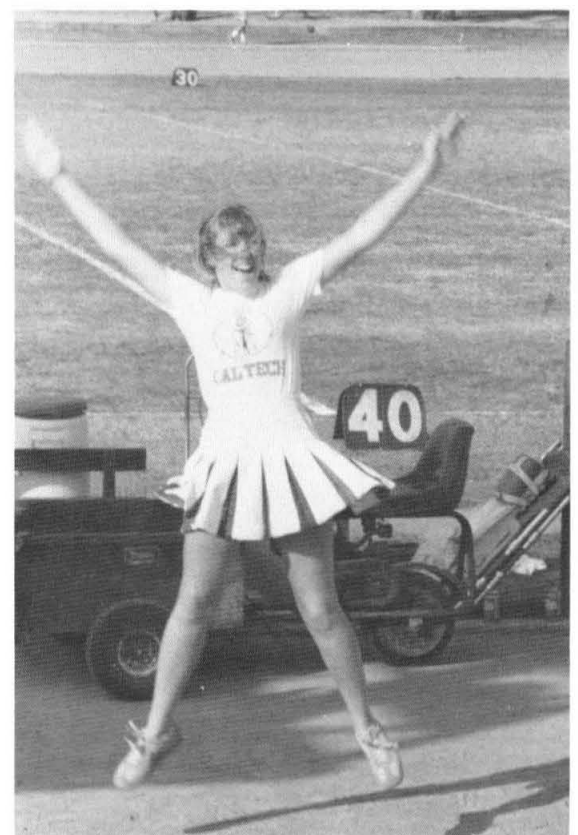
Hassle week brought the dubious innovation of both frosh cubes and the first pledgemaster "choice groups" with an average weight of over two hundred pounds. The small fry physicist got picked off, but like in all fishy stories, the big ones got away. And instant status was given to some sophs and seniors with high point values in the showering phase. All ended amicably with a truce on Friday nite.

Interhouse returned to a less "imaginative" theme with a Water Front Bar. A mellow wharf led to an even cooler den of jazz, at least when not interrupted by the smash and splash of bar fights. Assembly and cleanup were both record breaking, the former for it's speed and efficiency, and the later for it's lack of same.





House Trolls (l to r): Front Row: Sam Wang, Rod Van Meter, Josh Susser, Ken Whang, Kevin Wilson, Jon Happe; Middle Row: Heidi Langeberg, Mark McDonald, Deirdre McClure, Kiyo Yamazaki, Karyn Betzen, Debbie Pinck, Janice Sakai, Alan Maramoto, Sherry Smith, Jesse Wen; Back Row: Brian Tsai, Sing Ung Wong, Drew Lindberg, Huy Nguyen, Dave Wernitz, Jim Helgren, John Brendsel, Mario Montessori, James Liu, Nathan Hurvitz, Dave Feldman, Richard Doherty, Tracy Petersen; (Already Insane) Scott Brylow, Dave Chang, Dean Elzinga, Jam Hamrick, Yvette Madrid, Joel Seely, Tarn Tantikijrungruang, Janeen Williams, Paul Young.



A WEEK LASTS A LIFETIME, AS THE DAYS SLOWLY MATURE

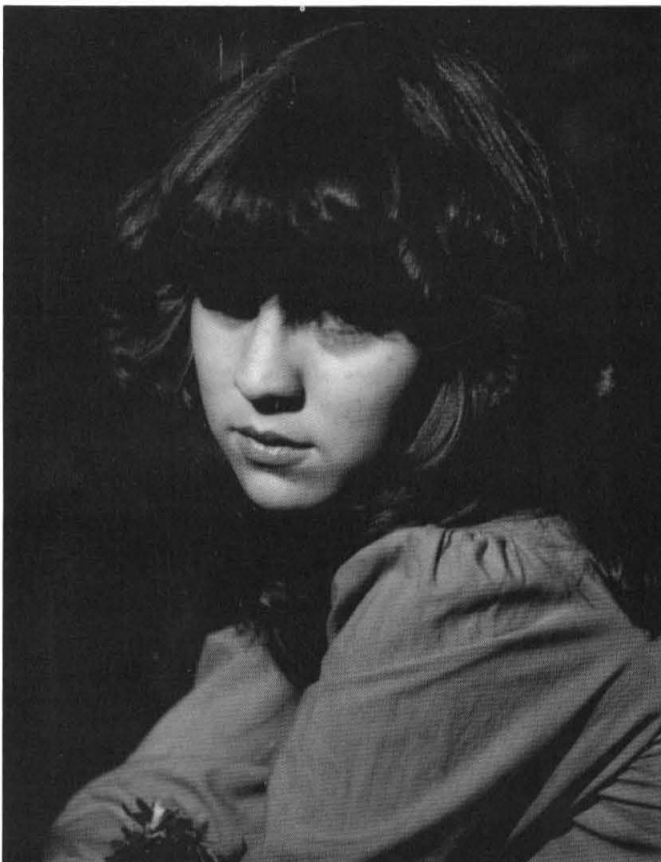
Monday's Child is FAIR OF FACE



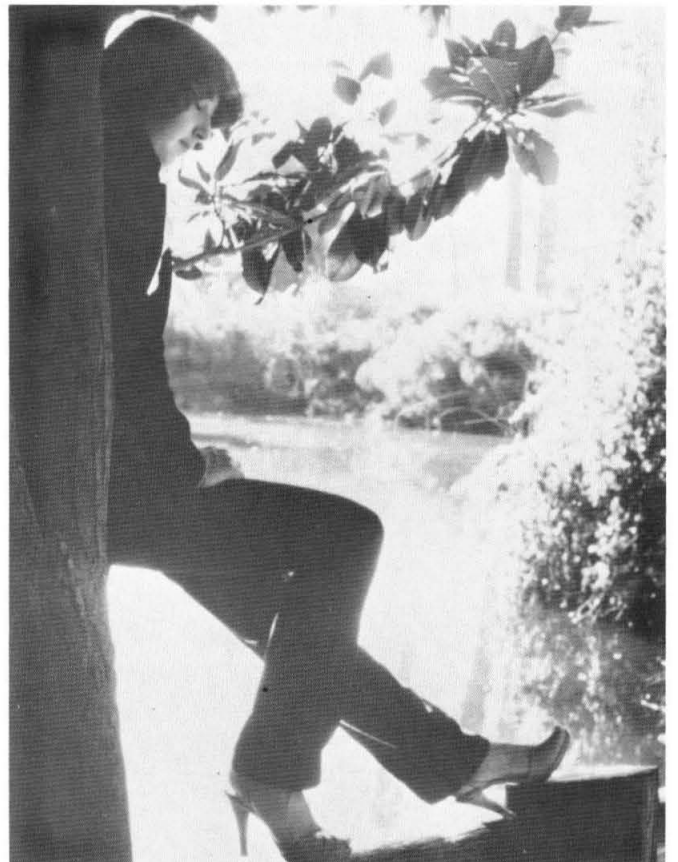
Tuesday's Child is FULL of GRACE



Wednesday's Child is FULL of WOE



Thursday's Child HAS FAR TO GO



Friday's Child is LOVING AND GIVING



SATURDAY'S CHILD HAS TO WORK FOR HER LIVING

AND THE CHILD THAT'S BORN ON THE SABBATH DAY, IS FAIR AND WISE AND GOOD AND GAY



We were pleased by our house's popularity, as a steady stream of people applied for social membership (a prospective member's "movie" was definitely a first), but as house meetings became almost weekly, some began to wonder.

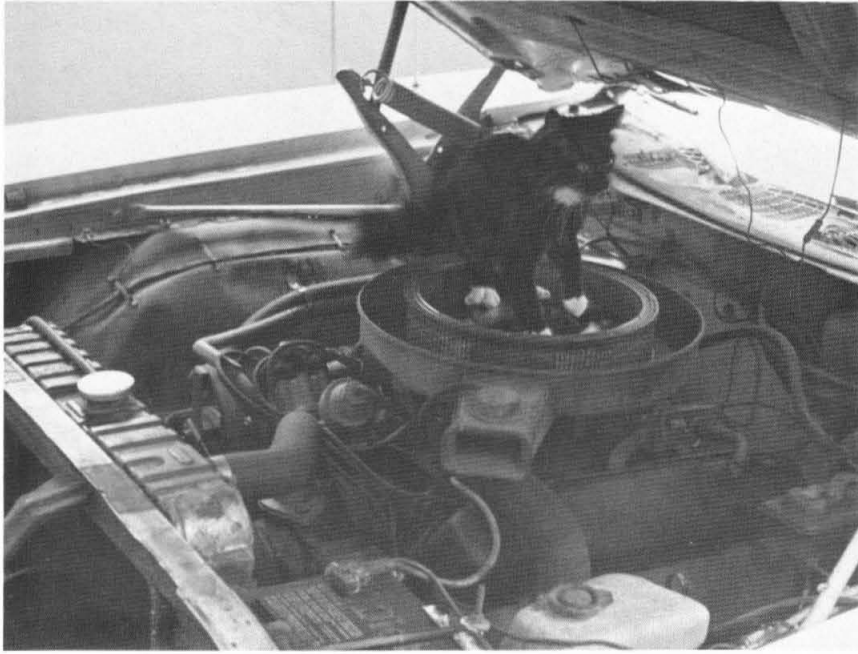
The approach of Christmas was marked on people's doors, with generous prizes to the best ones. Frosh met finals for their first time, and everybody went home for vacation. It was a short-lived break, though, as we soon returned to a wet Los Angeles winter.

The spirits of neither underclassmen nor seniors were dampened, however, when elections rolled around. The underclassmen were afflicted with "he went thataway" syndrome as ex-president Ri-Chee sauntered away to a late snack at the Salt Shaker. Observing this year's excomm, it was noted that the "yellow peril" had been repulsed.

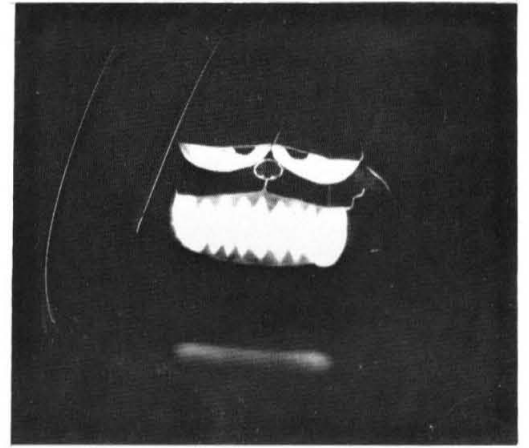
Parties took on a new flavor with themes prevailing. Valentines, hats, and black and white all provided excuses for social interaction. To almost everyone's happy surprise (some women were discontent), the "ratio" at parties pulled close to one to one.

With the eventual arrival of May, the rained slackened and every senior's mind turned to ditching. False starts were in vogue this year, seniors needing practice to get up before eight in the morning. When "tomorrow" finally arrived, stacks were the mix of ingenuity and public silliness that Ruddock stacks are known for. Themes ranged from movies (Raiders of the Lost Ark) and books (**Foundation** and **Hitchhiker's Guide**), to terrorist bombings and mazes. Nearly all stacks were broken and -oddly enough- all bribes were taken. No Rudd went to bed hungry that nite.

Spring gave way to early summer, jobs were found or missed, finals taken, and another year came to a close. Seniors relaxed at long last, juniors saw the light at the end of the tunnel, sophmores wondered how much longer this could go on, and frosh (after furtive calculations of their expected G.P.A) consoled themselves that at least next year there'd be new frosh.



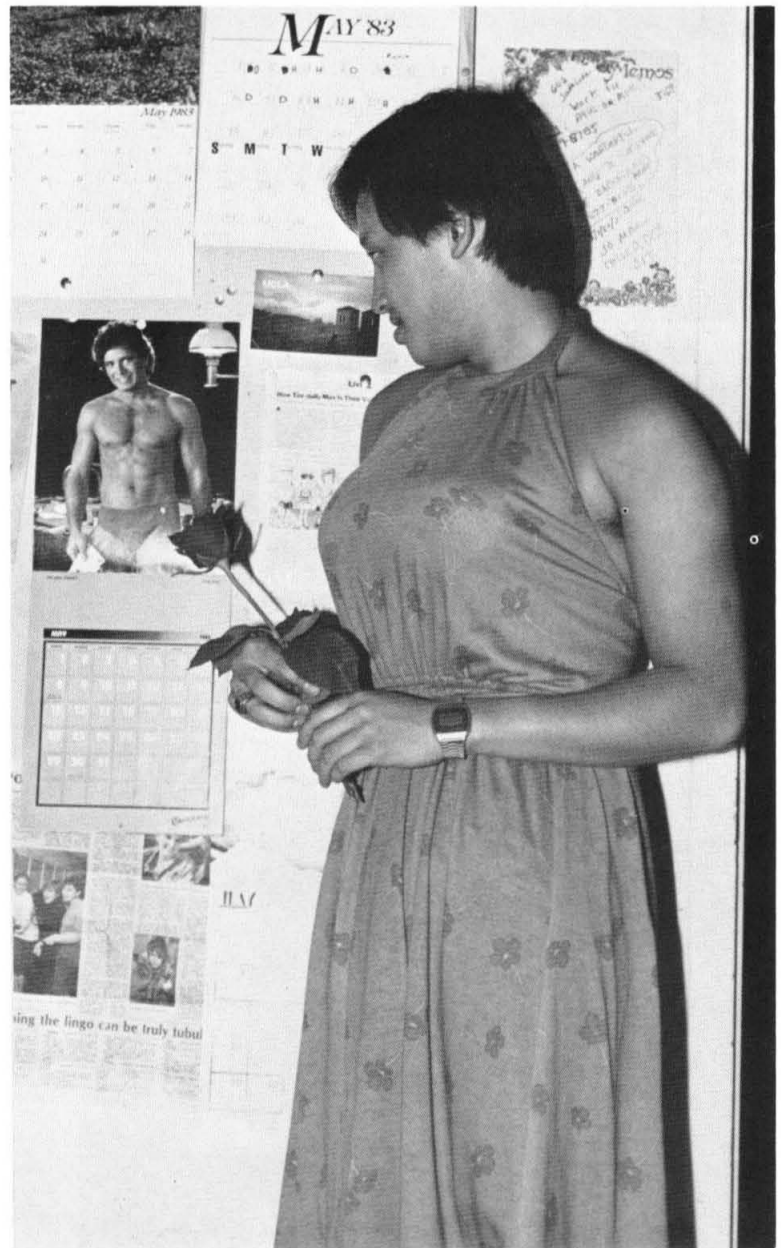
A "turbo-charged" engine



Smile!

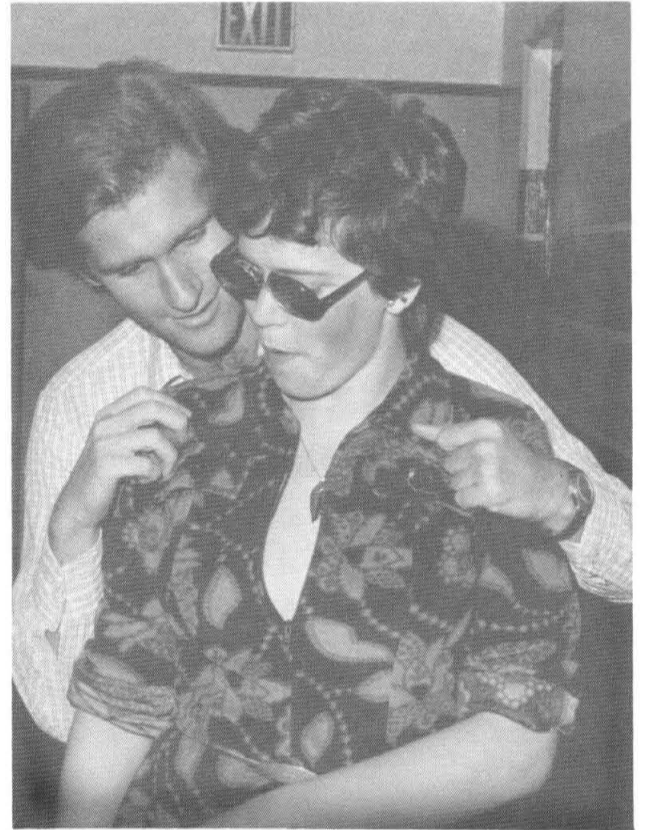


He's just soooo dreamy.





Harder, push harder.

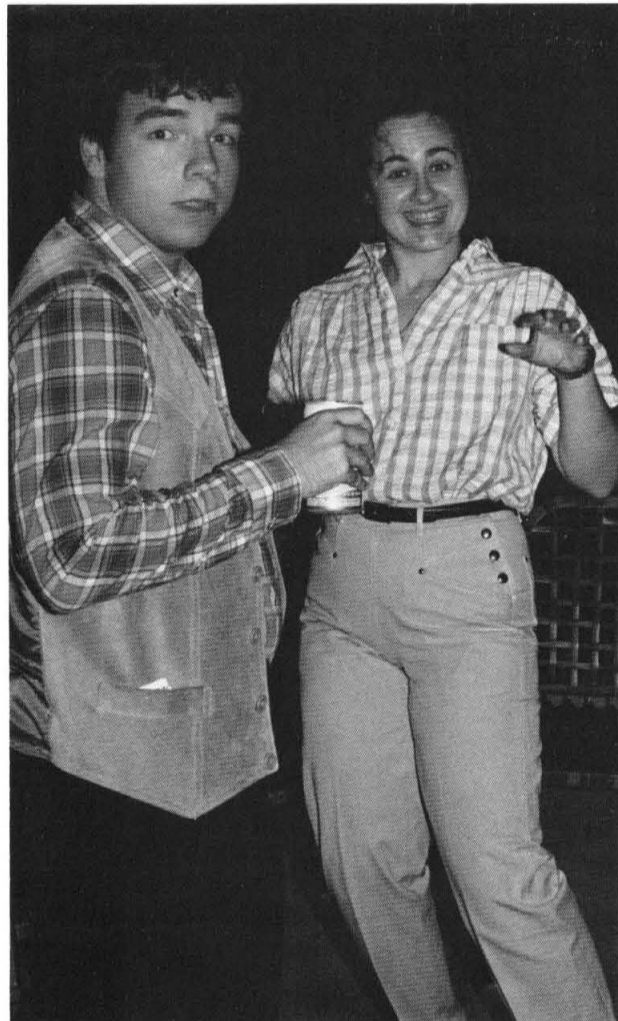


What have we here?

This years poster children.

Many thanks to: Mark M.
Greg K.
Roger F.

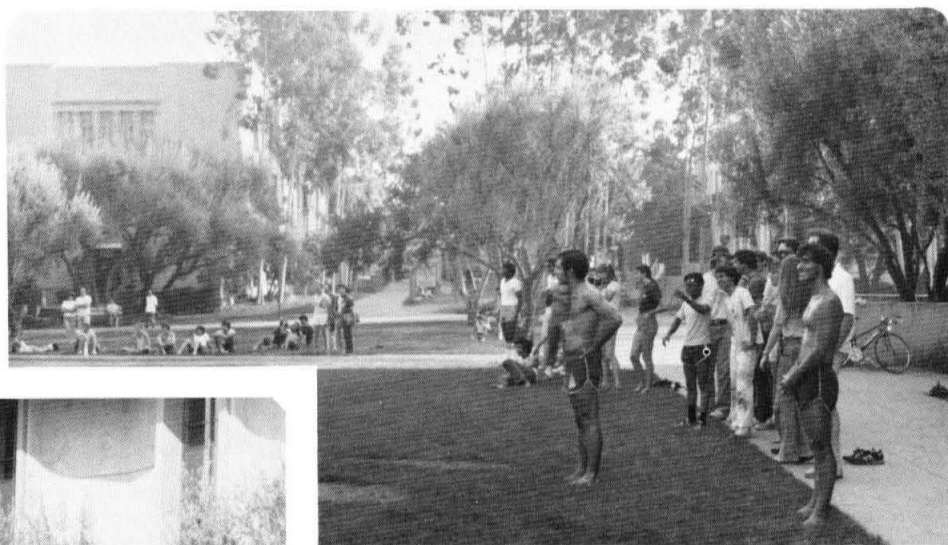
Editor Steve Swanson



PAGE

Alley Trophy

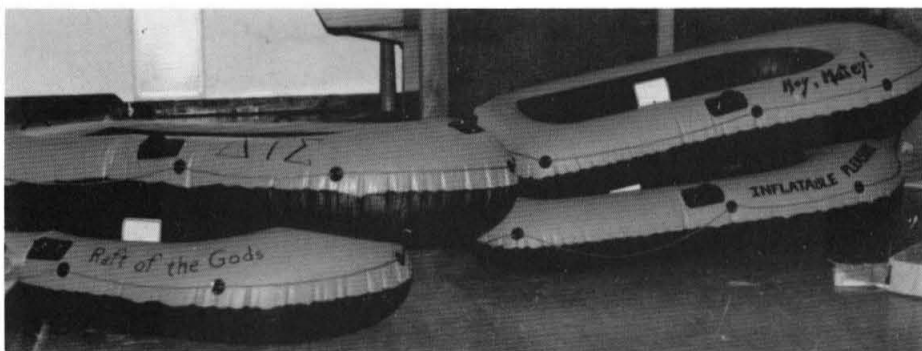
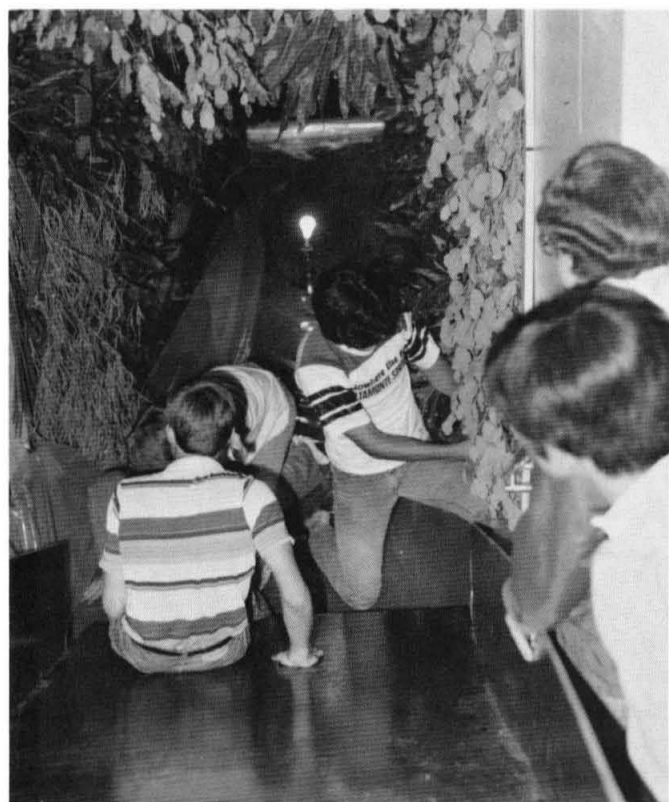
For the third consecutive year the Greased Frosh Races were held to determine which alley was to have initial possession of the alley trophy. The two alleys in the long, downstairs hallway combined forces and used a moose as a frosh to win the Races. The trophy bounced around 515 South Wilson, weight, and Wun Rhun alleys for the rest of the year.

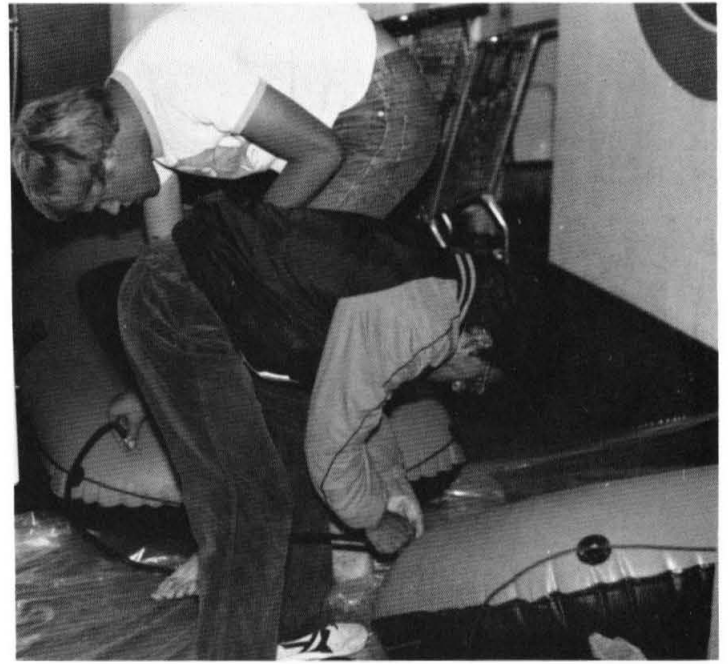




Interhouse

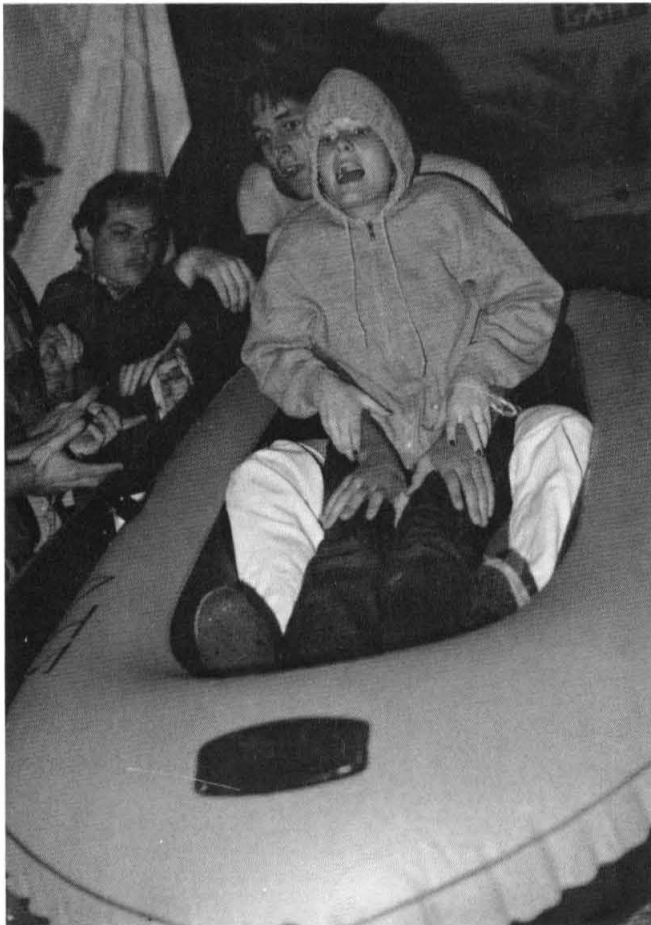
Interhouse time floated around with its usual enthusiasm. The river ride was pretty impressive, with a waterfall and a gorilla to greet the river riders after their initial plunge into the river. Farther down the river waited a thunderstrom. Lots of people worked on putting up foliage all along the length of the ride, and everyone had fun naming the rafts.



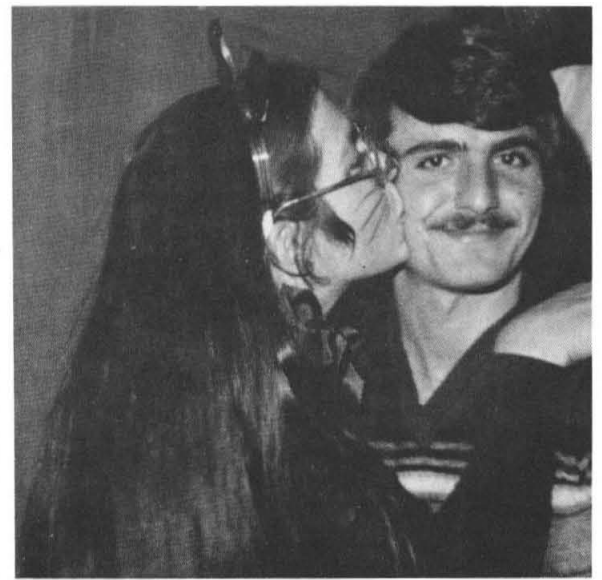


Interhouse (cont.)

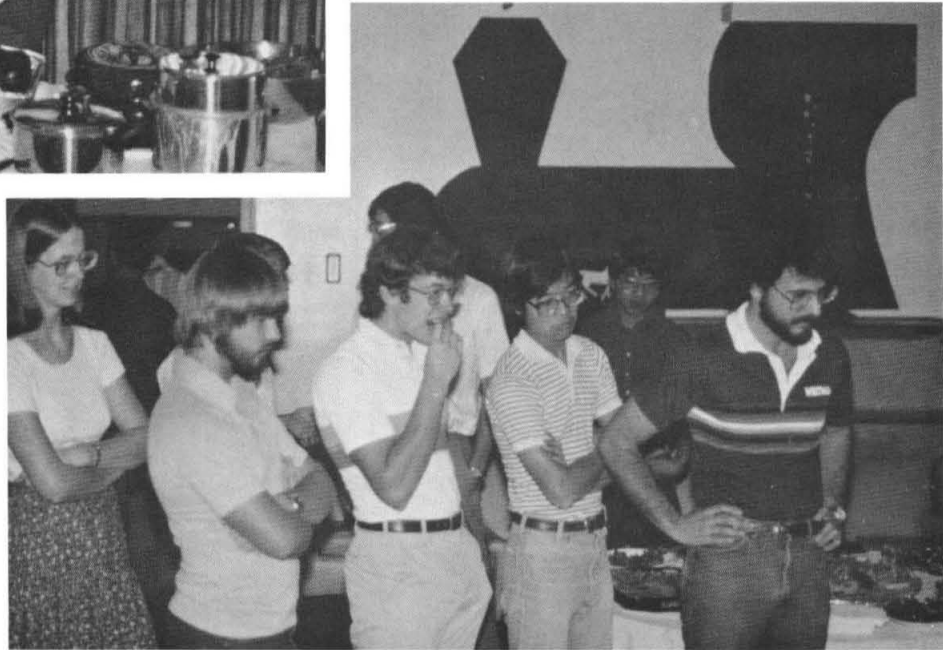
Behind the scenes were many frosh who were ready and willing to keep those rafts pumped up. Mark put on a laser light show in the courtyard. The band stayed until 2:30 and kept the lounge and dining room crowded the entire time. *"Just lean back and I promise you won't get wet."*



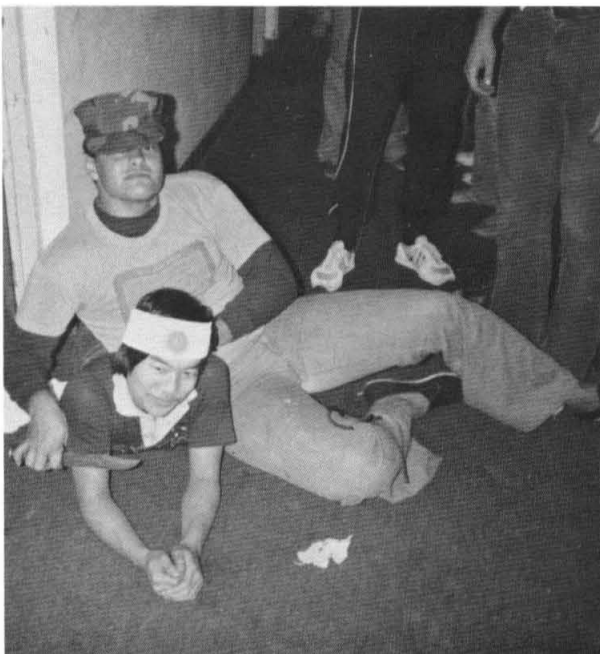
(Right) The Halloween Mouse visits Page.



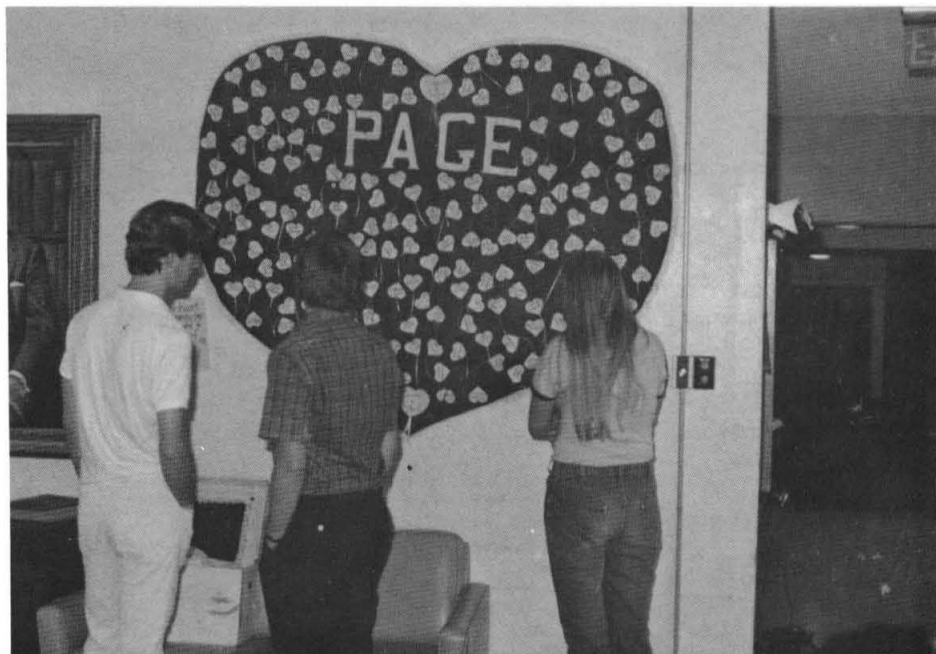
For Thanksgiving, Barb cooked a big feast for about 20 people who stayed over break.



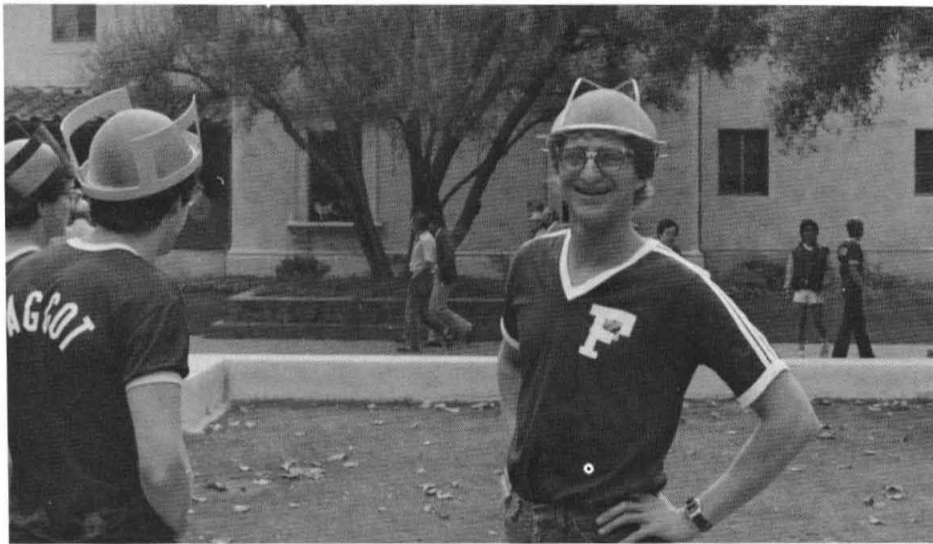
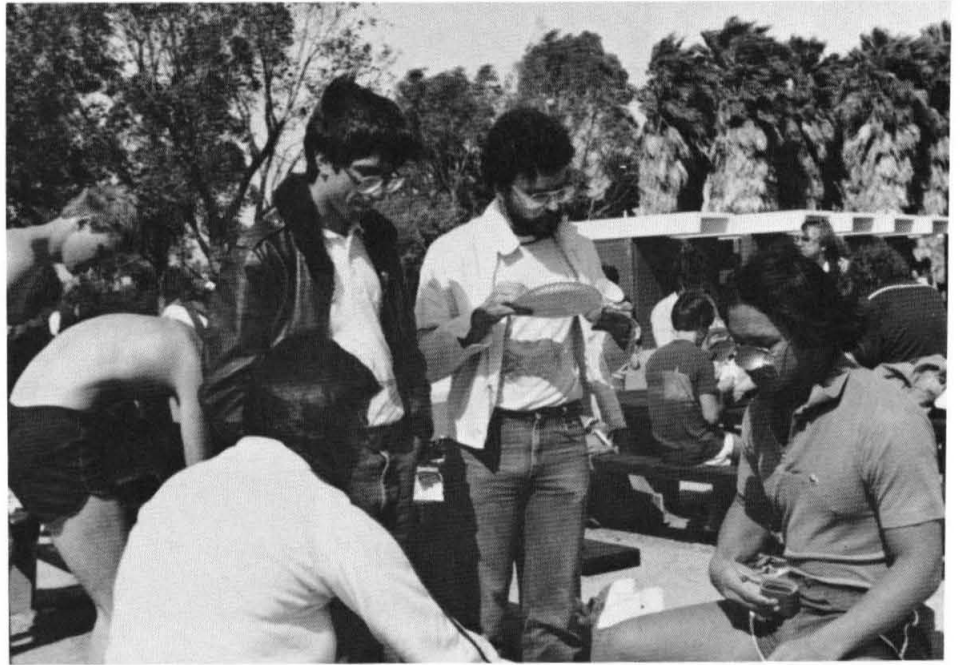
Pearl Harbor Day was celebrated in grand style as this frosh went to the ocean.



On Valentine's Day, Karen Erickson sent us a heart as big as hers.



The Easter Bunny prepares for her annual visit to Page. On Sunday, we went to Laguna Beach for an Easter picnic—hamburgers, hotdogs and BACKGAMMON! Here, Barb shows Joey dice control.



Greg Schenter parked under a tree.

A new tradition started this year—Fleming House wimps bought and served pizza to Page frosh during a Ph 1 lecture. What a nice gesture! While some Page dudes are having fun on the lawn, a couple of Fems stand on the Olive Walk wondering what to do without the rest of their house behind them.





What a frosh!

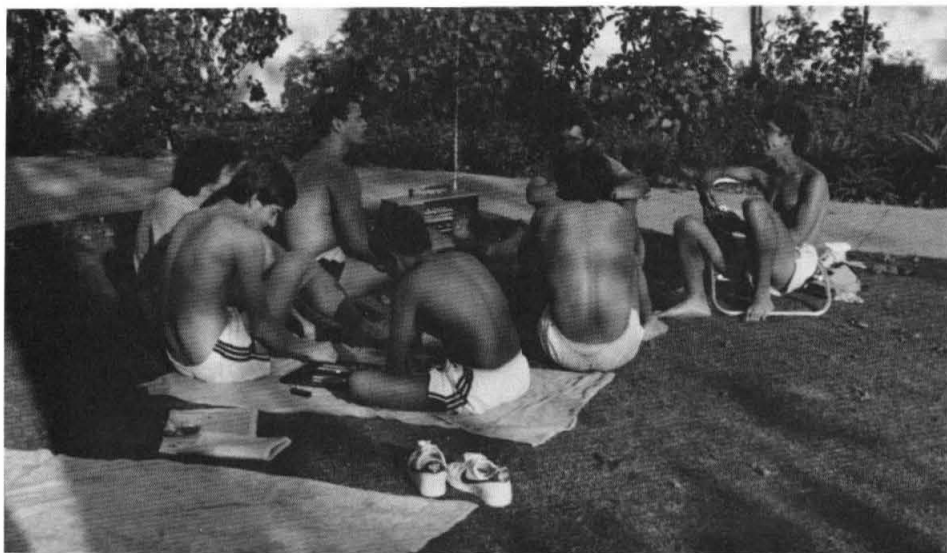
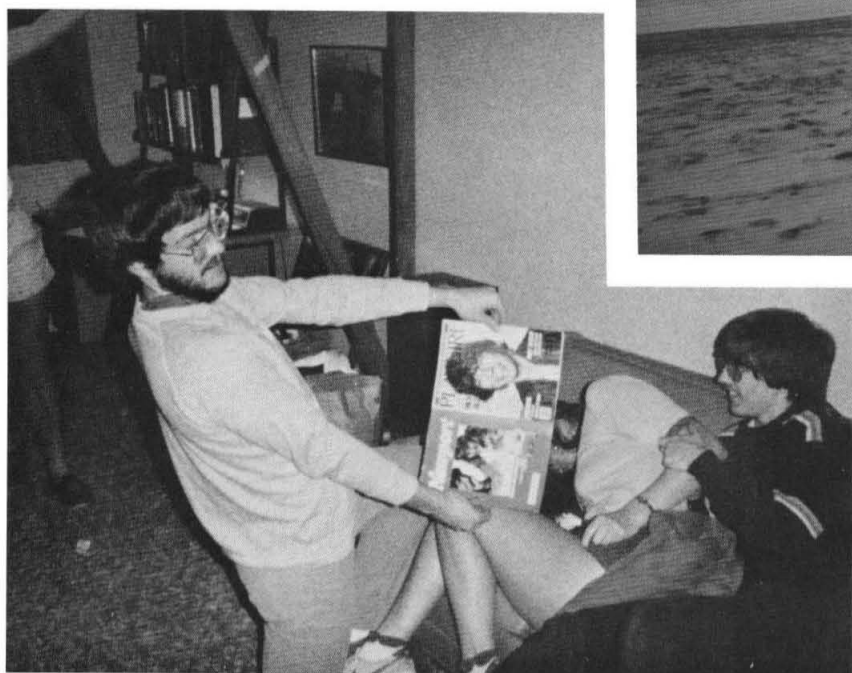


Figure this one out yourself.

And we did have massive flicking on the Page lawn.



(Above) Don't let this picture fool you!!

(Right) Create your own caption.



Seniors—(L to R): Bill Polson, Brent Stuart, Larry Gross, Russell Quong, Andy Berkin, Chi Fong, Luis Monsalve, Dale Chu, Glenn Nakamura, Dale Chu II, Graham Zaretsky, John Wang, Bruce Behymer, Brian Richards, Scott Bloom, Sekhar Chivukula, Fred Wieland, Steve Chin, Lloyd Franklin, Greg Schenter, Greg Haussman, Bob Golden, Nancy Krehbiel, Karen Close, Scott Michael, Sandra Loh, Rod Morison, Larry Gross II, S- Wad II, Tim Brazy, Bjorn Matthias.

Those who got jobs: Dave LePoire, Harry Mousmoules, Scott Sperling, Chris McKinnon, Greg Sayles, Carlos Valencia III, Ginny Chan.





Juniors—(L to R): Michael Terepka, Erik Fernandez, Ken Hui, Mark Waggoner, Han Toh, Mark Marley, Dave Hawley, Jim Determan, Steve Baxter, Hank Erving, Neil Phillips, Vance Haemmerle, Steve Stahl, Steve Havstad, Dave Chavez.

Those at the beach: Asad Khan, Anthony Miller, Mark Holst, Doug Ruden, Phu Nguyen, Joannes Costa, Joe Lee, Joey Chang, Alan Murray, Pedro Rodriguez, Brad Brock, Keith Holt, Kirk Brattkus, Clara Spalter, Reed Burkhart, Eliza Sutton, Yung Lim, Robert Murdock, Phil Scott, Vince Cammarata, Robert Mostert.

Caveman working out.

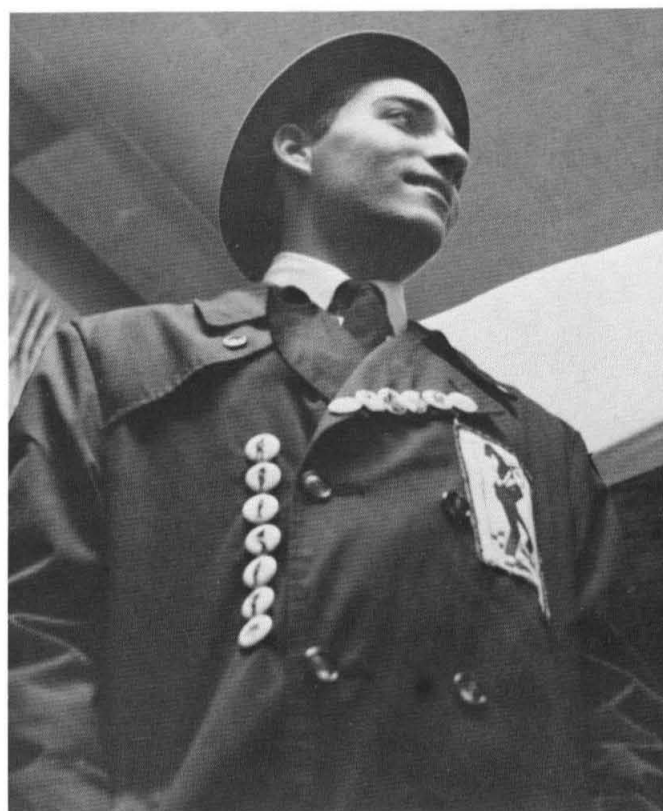
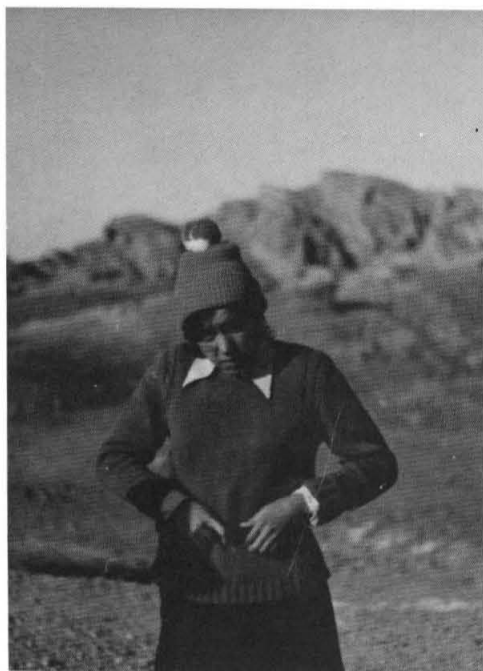


Lazy Ass!





Sophomores — (*L to R, vaguely*): Paul Filmer, Steve Loyola, Michael Gibbs, Richard Premont, Doug Stohler, Manny Acevedo-Ruiz, Dan Davis, Sean Moriarty, Paul Graven, Brandon Mymudes, Steve Kong, Cathy Shapiro, Gordon Vaughan, Pam DeMoor, Ed Felten, Paul Barros, Mark Dombrowski, Gerald Zeininger, DAN Schwartz, Lew Aronson.
Still Trolling: Jim Labrenz, Suk-Hoon Yoon, Kelley Cherry, Steve Molnar, John McGowan, Kristian Kvilekval, Jenny Haase.





Frosh — (*L to R*): Milagros Montalvo, Víctor Leyva, Rich Trujillo, Kent Noble, Scott Grossman, Supriya Ghosh, John Herndon, Lisa Cummings, Robby Dow, Hsiu-Tung Yu, Dave Werntz, Ryoji Watanabe, Warren Goda, Sonja Benson, Matt Compton, Tom Luke, Brian Suggs, Hans Hermans, Fred Ferrante, Scott Karlin, Brian Burk.

Those who fell off: Carlos Mussenden, Michelle Miller, Janet Boley, Diane Creveling, Dave Gallup.





(Top right) "Why do the GODS hate me?"

(Lower right) Hire the Physically handicapped.

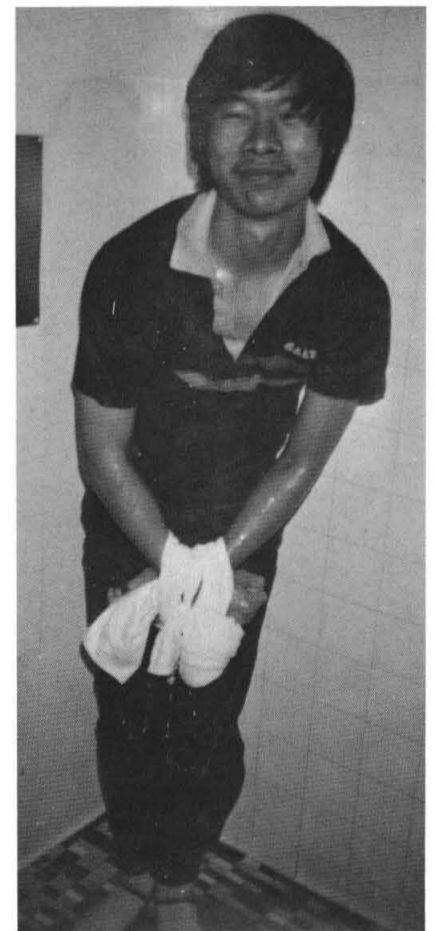


The Nurling of the Room.



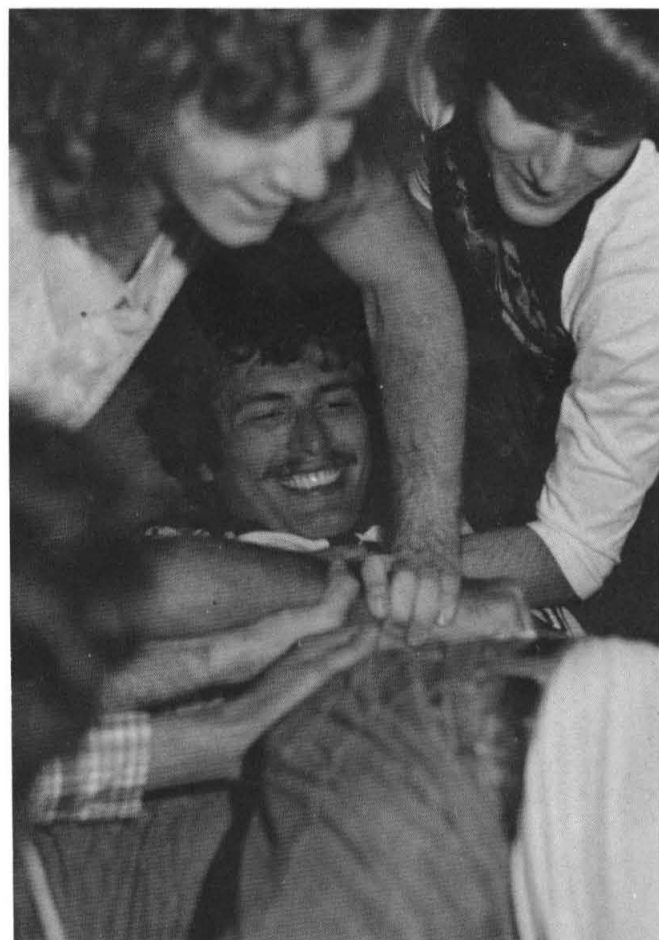
(Bottom) Russel experiments with food.

(Right) Han Toh experiments with himself.



(Right) A wet frosh is a happy frosh.

21's:



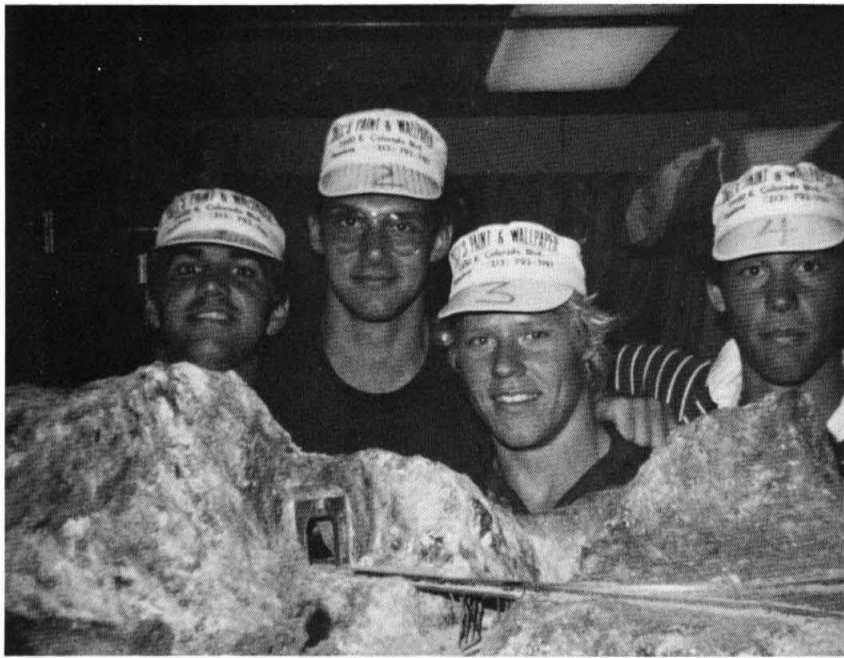
Pete wishes he could be ocaned every year.

14's:

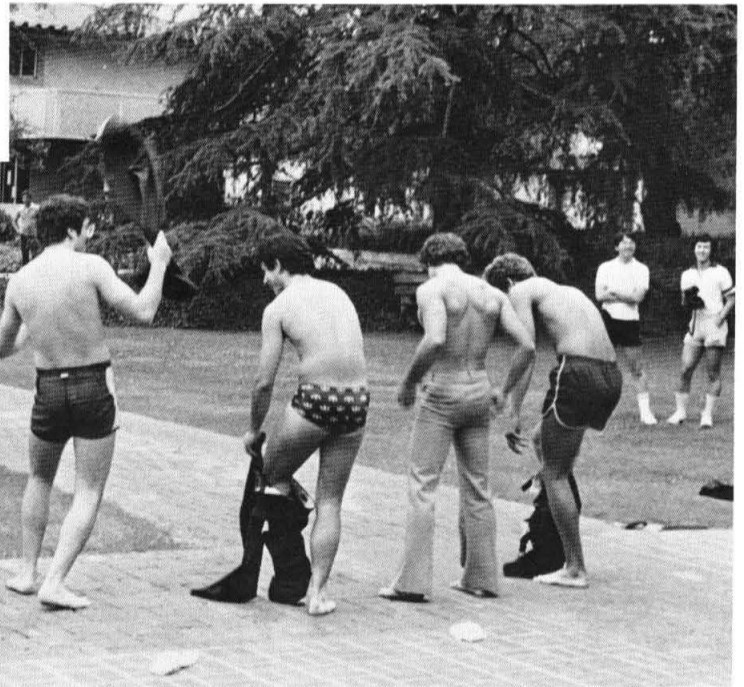


Clara...

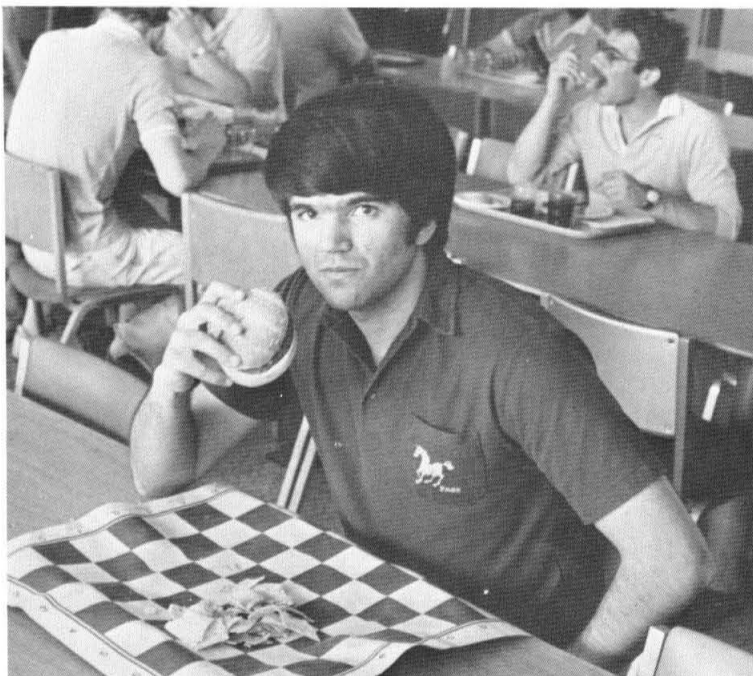
Harry (Fish) Mousmoules



The Severity Stack required underclassmen to have severity in order to gather beer bottles. The bottles provided the code that would open part of the door to reveal a model railroad. The railroad was then operated to open the door.

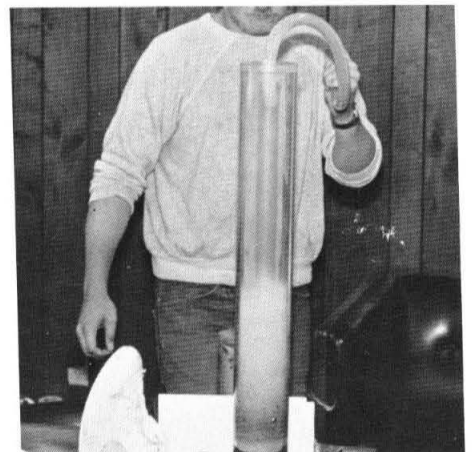


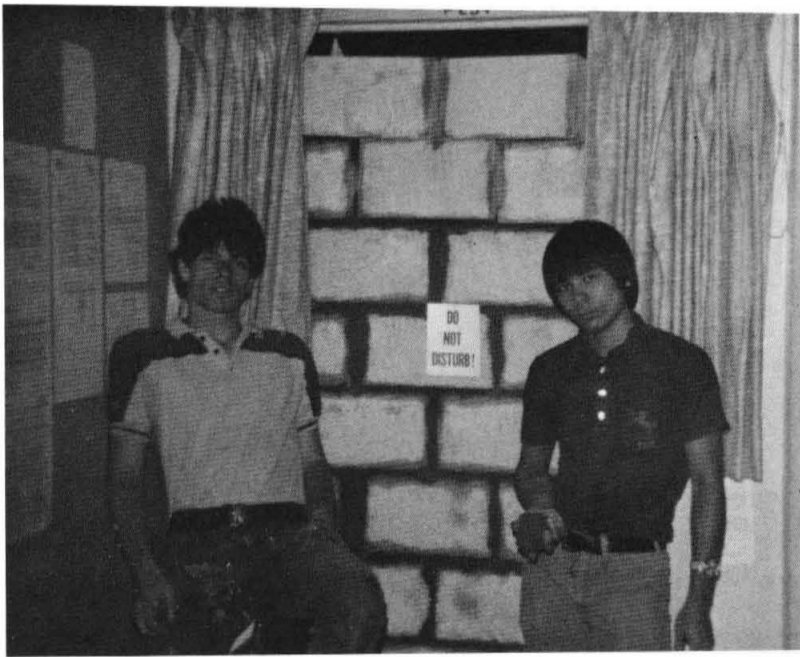
*When: High Noon.
Where: Athenaeum.
Who: 5 Page Dudes.
What: Strip Tease.
Why: Because it's Ditch Day.*



(Lower left) Brad Brock was served Servomation lunch on a chess board as part of Sandra Loh's Sandra Loh stack.

(Lower right) The Luis Monsalve/Larry Gross Stack: Sex, Drugs, and Rock n' Roll. Steve Baxter went to Berkeley.





Andy and Russel returned to find a reinforced concrete counterstack. Lesson: never trust a EE!



Harry and Sekhar's bribe of wine, cheese, and other goodies was accepted.



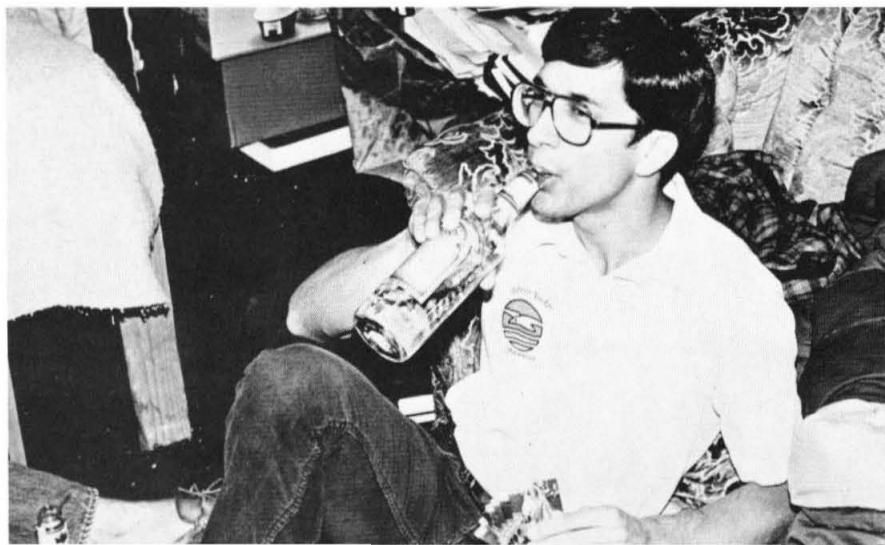
Passers-by remarked that "it's difficult to distinguish between the counterstack and Sandra's room in its usual state."



Laura and Ed, Terrie and Dan, Kathy and Scott, Lisa and Sean at the Ath Formal.



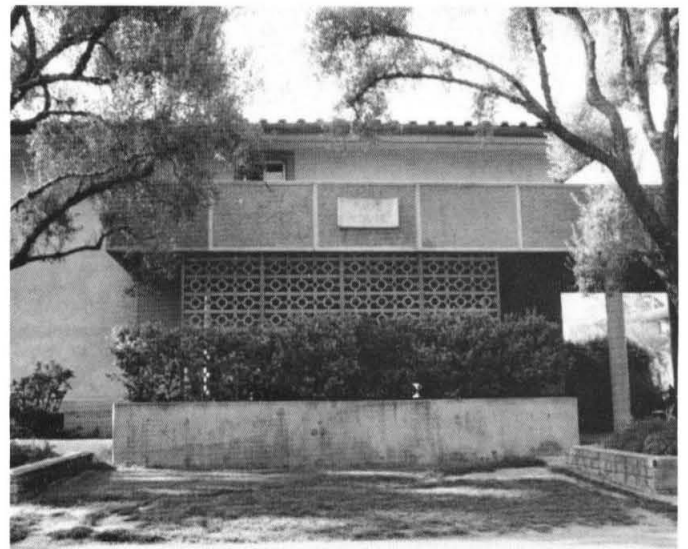
FINNALLY! After 7 years!!



Russell Quong amongst a half-dozen or so lazyass wimps.



Lloydie backing into the Discobulus Trophy with the help of the I.H.C.



Parting Notes

Oh, by the way, along with all of the numerous social activities and events that we participated in during the year we found some spare time here and there to win the Interhouse and Discobulus trophies—AGAIN! However, the IHC is getting better and better every year at trying to cheat us out of the trophies.

CREDITS

Editor:	<i>Michael Terepka</i>
Photographers:	<i>Paul Filmer</i> <i>Steve Molnar</i> <i>Lew Aronson</i> <i>Greg Hausman</i> <i>Andy Berkin</i>
Illustration:	<i>Andy Berkin</i>

BLACKER

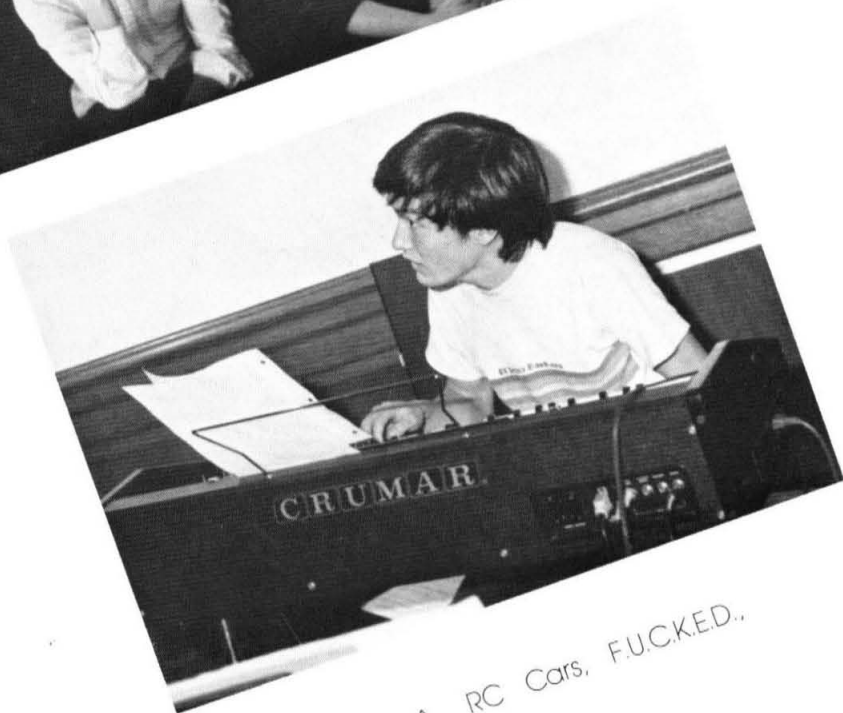
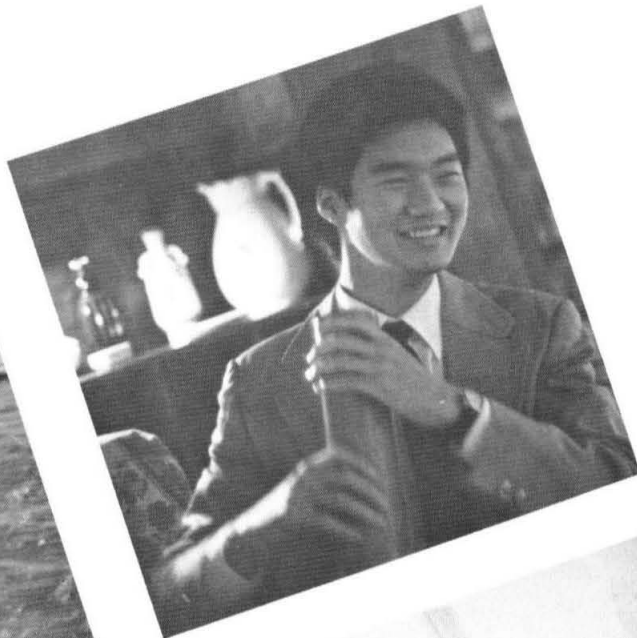
House of Gracious Living





Ass Tea, Posh, Wine Tasting and Fondue, Second City, Lounge Run (with pleasant and varied conversation)





Purity Test, B.A.S.A., RC Cars, F.U.C.K.E.D.,
Disneyland, Water Fight

Juniors: (Clockwise from bottom) Norman Princen, John Houde, Satoshi Yoshizawa, Walter Weber, Laura Wilson, Dan Kegel, Chris Worrell, Jonathan Leech, Vepul Periwai;
Missing: (clockwise from top) Denes Zsolnay, Kaushik Bannerjee, Suzanna Corral, Geoff Dairiki, John "Sinc-brick" Byrne, Roderic Schmidt.

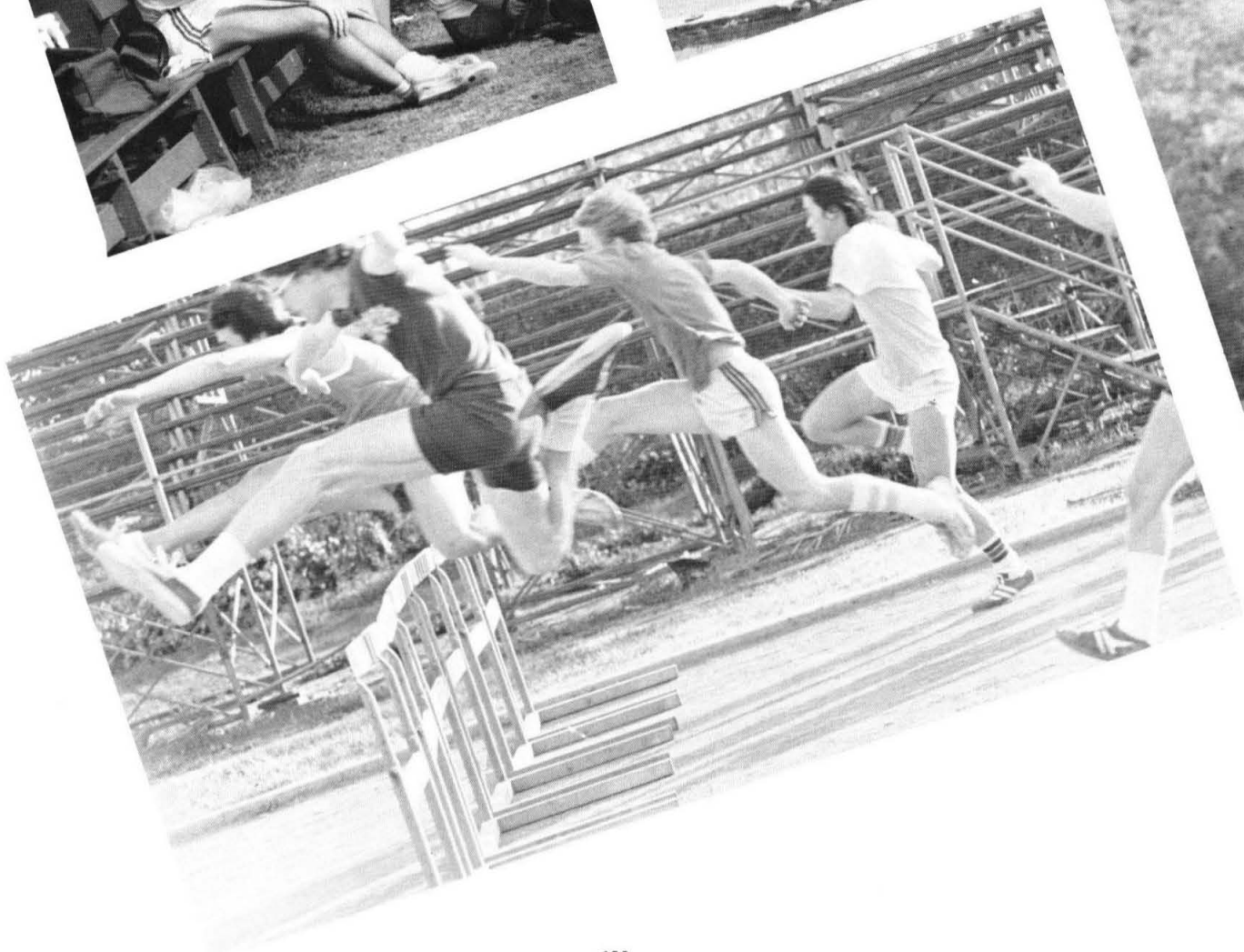


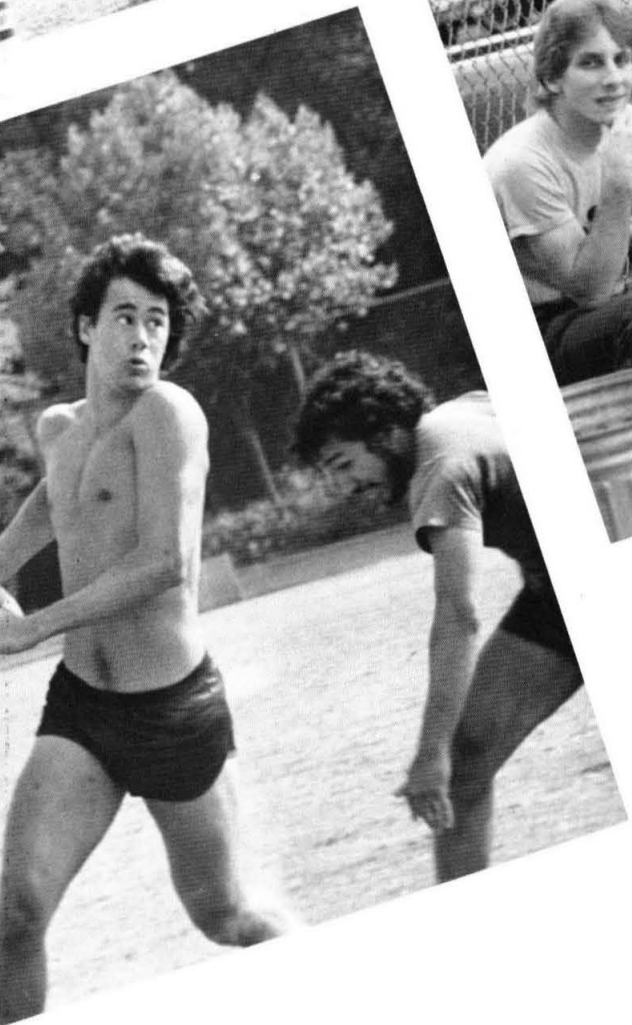


Seniors: (all missing, Blacker Clockwise from 1 to r) Jim Anderson, Ramanuj Basu, Leif Bennett, Steve Colwell, Jahn Dyvik Ph.D., Arthur Fortini, T.C.O.T.U., Lee Hasiuk, Arlene Killer (I mean Keller), Brian Kenney, Vince Powers, Jeremy Sommers, Adi Srinivasan, Chris Thompson, Reese Faucett, Chris Snyder, Avidah Zakhor, Joe Ho, Craig Minor, Dave Adler, Dave Muraki.



In Your House Sports, Infinitely Many
Kelroff Studs, Future domination of Track
and Field, Discobolus, "So when are we
getting a House Rock?"





Sophomores: (sitting, l to r) Mike Chwe; (standing, l to r) Rodney Kinney, Vince Chen, Greg Kopp, Davy Hull, Blake Lewis, Steve Hawes, Mike Nolan, Ted George, (A non-sophomore) Mike Yamada, Frank Lowther, (A part of another non-sophomore) John Butman, Fred Wong.
Missing: John Beahan, Bob Henderson, Richard Marray, Steve Pitts, John Wall, Jeanine St. Jacques.





Frosh: (All wet, l to r) Scott Brylow, Nathan Inada; **(half wet)** Matt Penn, Simon Goldstein, Margaret Carter, Ken Hahn, Rob Fatland, Doug Grey, Tom Megeath; **(dry)** mi gnu!, Mike Bronikowski, Chris Meisl, Lisa Henderson, Dave Agabra, Richard Ling, Se Jung Shin, Dave Hull; **(mountain men)** Andy Miller, Mike Rigler;
Over the hill: (l to r) Pui Tak Kan, Tory Lawton, Kaveh Taleghani, Mimi Zucher.

Rebirth of BTE—the pulsating white sphere,
Guy Faukes Day, charades in the snow,
stacking Chris Meisl, P.C.D.E.



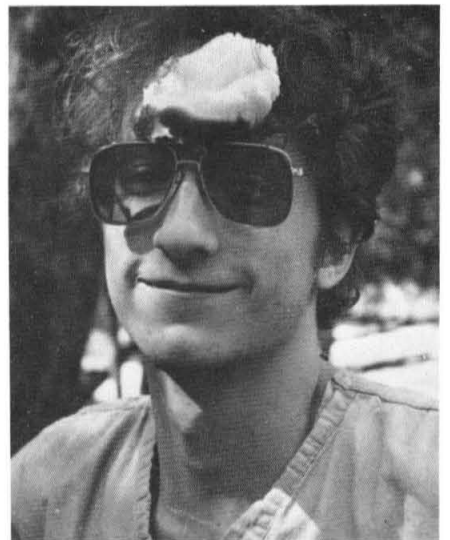
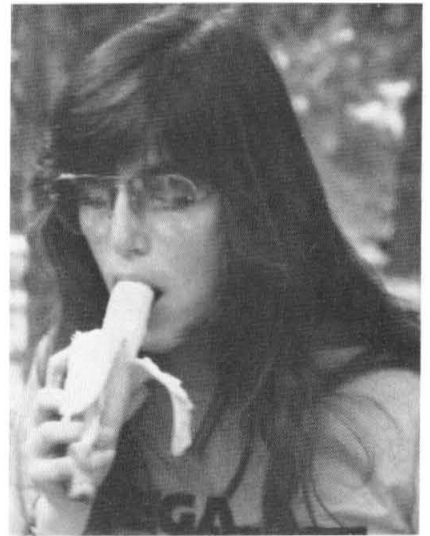
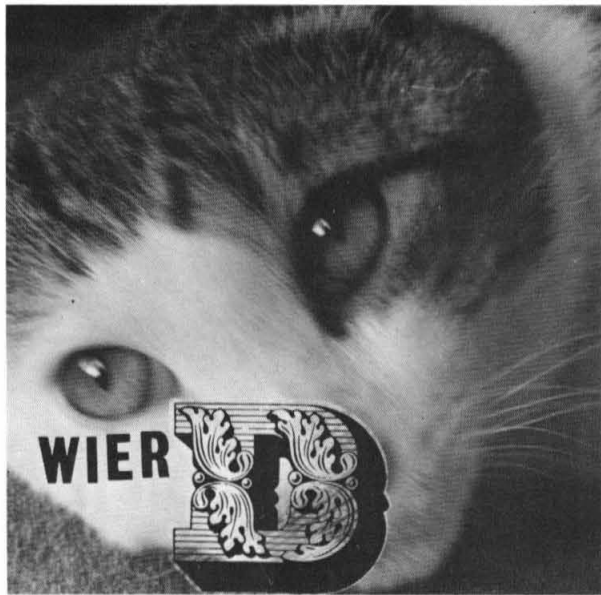
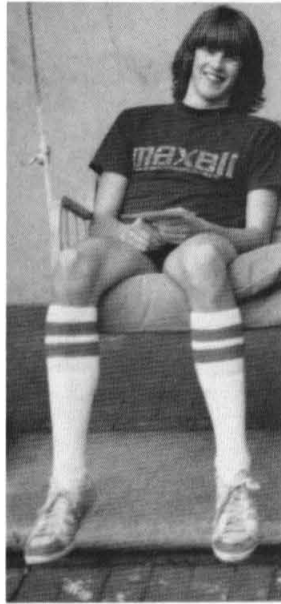


Ditch Day ("welcome to Arlene's Lounge"), Inure House Party (flooded courtyard, Frosh project, Molack jokes, mud wrestling), Care Package sent to relieve the Dabney Potato Famine, Blacker Beach



Old Athhole

the 2:00 geyser



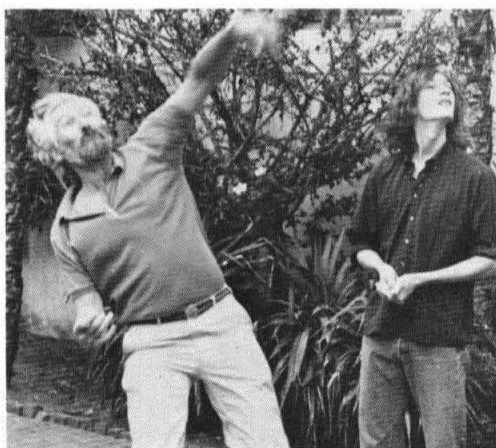
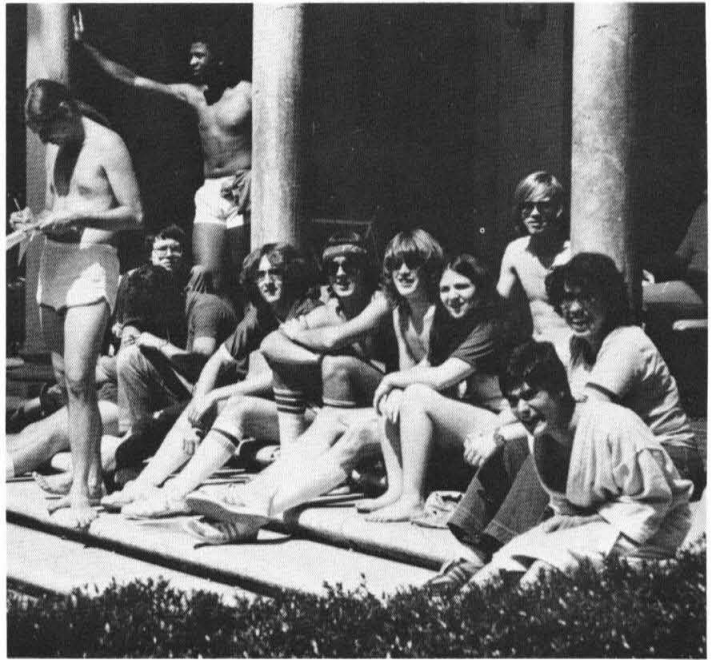
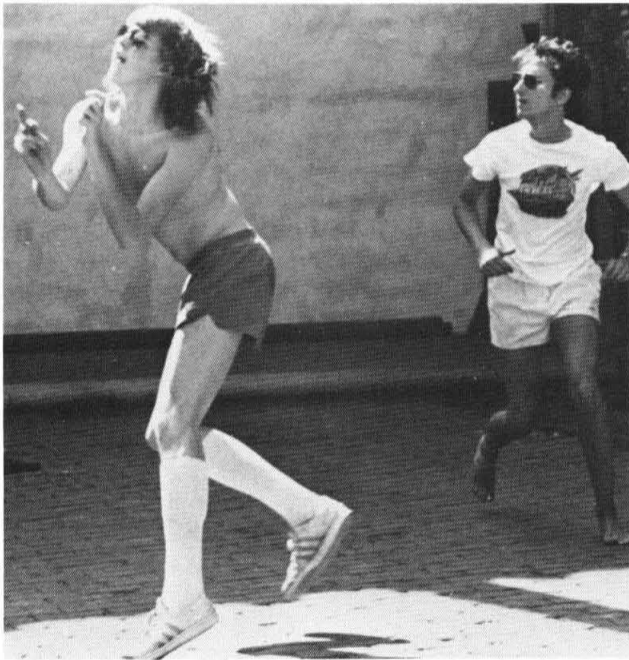


A Story, less fictive and less factual than the transubstantial original. A remembrance. All characters both living and dead. Certainly quintessential. The names have been. Will be again. The place is the thing. Wherein. Catech the kenscience of thinking. This is a story. Jest. A story. All lights revered.

Force Traum

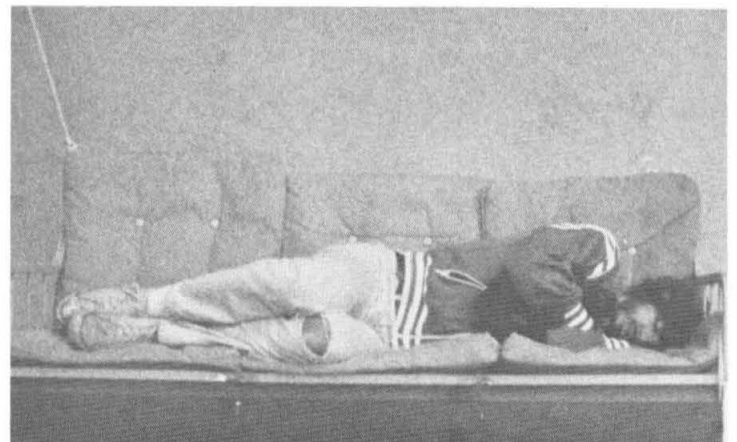
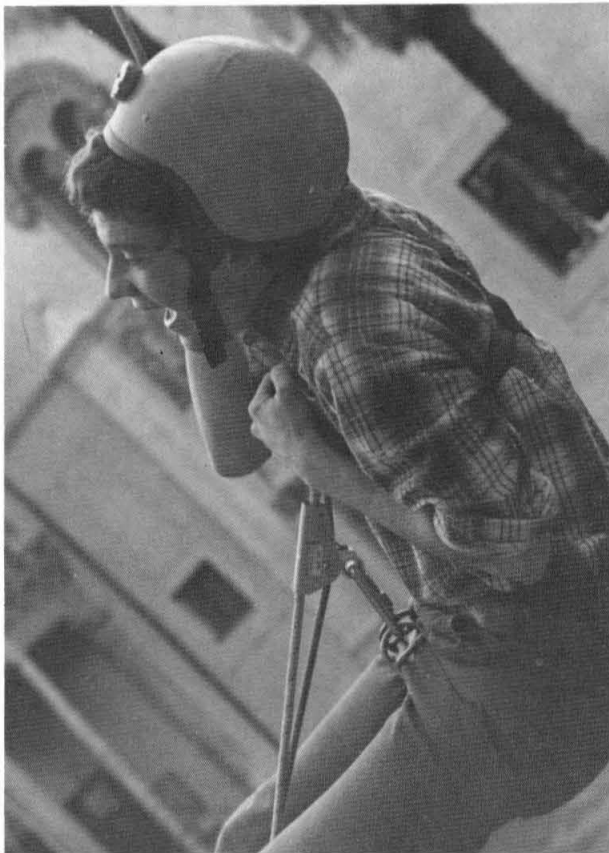
Early on morning two boys blew into court on the breeze. House of chaos, house of couches; take one.

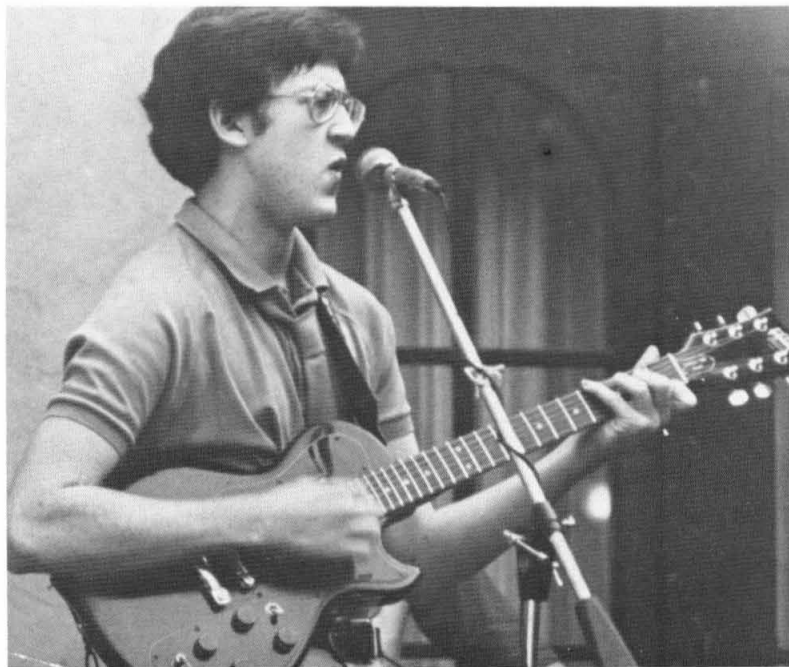






1) Seniors (clockwise from upper left): Richard Pogge, Bruce Sams, Mario Fajardo, Anne Hermann, Sam Sjogren, Jim DeWitt, Daniel Jew, Margie Farrell, Jenine Murch, Jim Cummings, Bonnie Pletheram, Ethan Lavan. 2) Bass ET. 3) ¿Dos Bruñ? 4) Graduating seniors sleep easy. 5) SSSSuperfly, the man who was rejected by Nature. 6) South American Gothic. 7) Sure does. 8) Mom washes the elephant. 9) Juniors (left to right): Kent Cantwell, Mike Allweiss, Tracy Furutani, Jim Mayhew, Peter Siracusa, Charles Cuny, Katrin Rodriguez, Mark Purtill, Barb Turpin, Scott Gordon, Eugene Hu.





Airily comported, together, but not in unison:
 "We're interested in the Matter of Gravity."
 Writing on the wall.

Having writ from a cool couch arose a man
 draped with long hair and purple unmentionables.
 No sheet. An introduction: Julius Caesar the Elder,
 unapologetic one of two, the second unCSERtainly
 principled, a third only allusive. Joe Cairo. Jim
 Cassionova. Stars of Bedlam.

Persuasiou: "Try climbing the stairway to
 Seven." Upper and lower, like classes and cases.
 Comings and goings up in the world. Weight up.

Two boys wandered up past Clue W to see the
 Wall of Science. W for wonder. Exit left to the
 Funway. Two boys blind with neoscience read the
 writing between lines and massed much mirrored
 inner septum. Sknowblind. Kindersentient. Blanc-

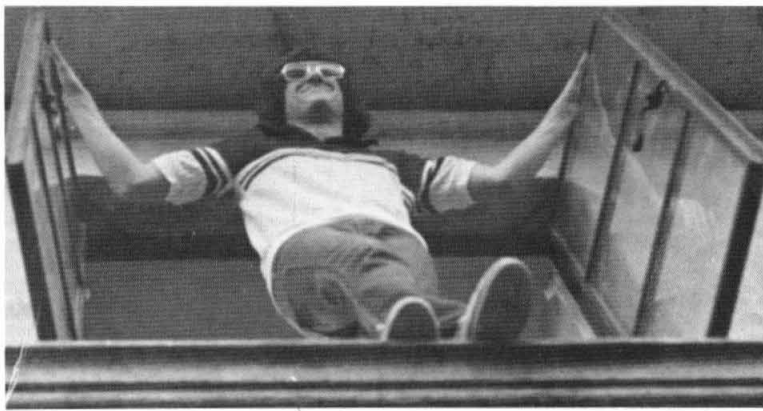
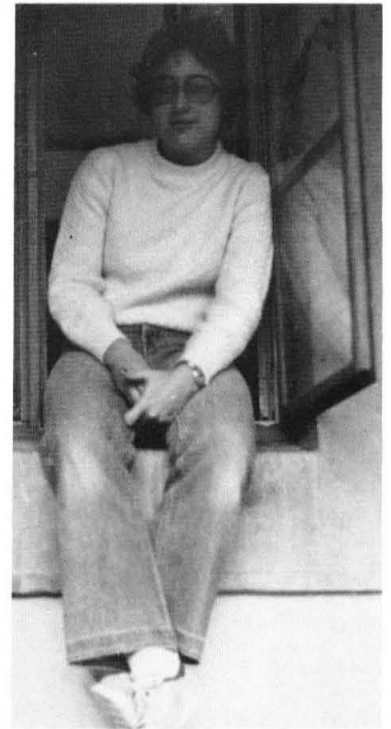
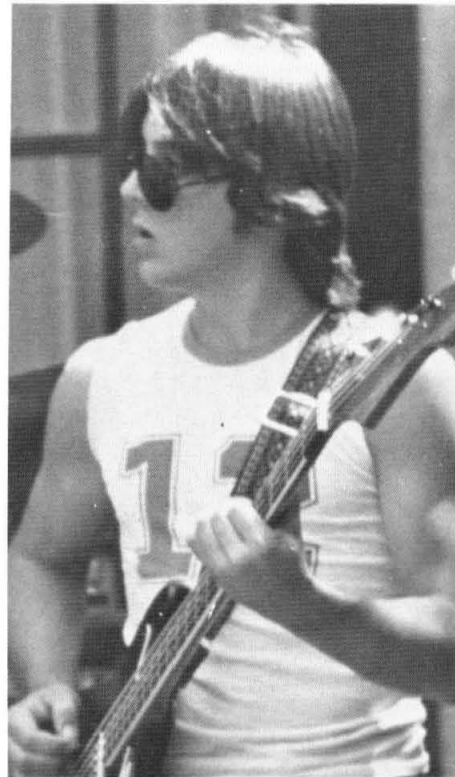
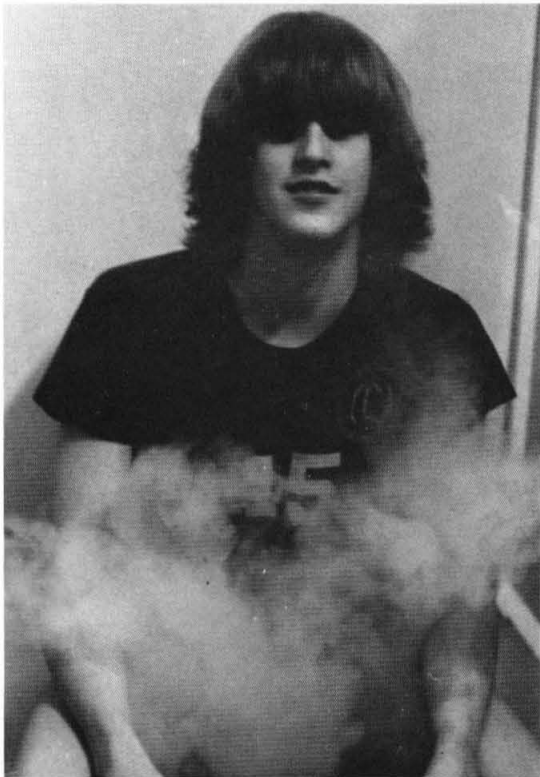


minded. Two boys gravely mannered left the while of nonsense but did not exit left. Returned proper, correct, gravitating down the staircase past Clue W. W for influence.

What's it all mean, do you think?"

I don't know. I don't know." Which was a quaint little uncertainty, but he was bemused by presumption.

Two boys strolled back into the courtroom past a reclining jury and directed their gazes to follow the tall trunk of a palm tree rising roseless beside the unsigned whitewalls of a parking lot to be. Opening on a window wanting a bicycle. Hanging before a couch unsuspending and not

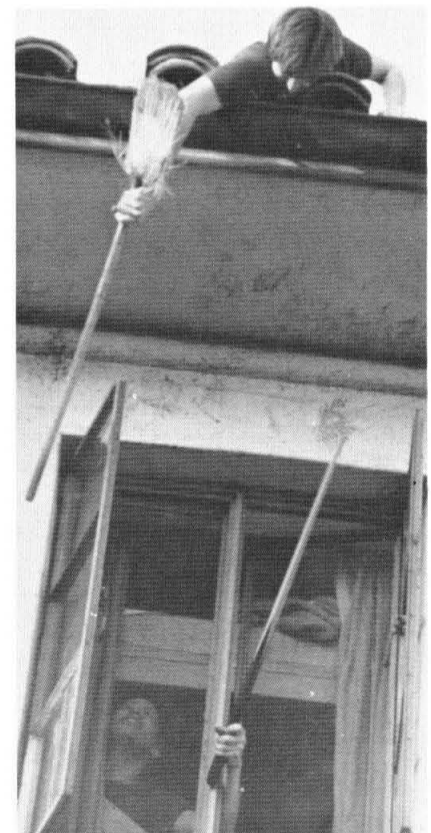


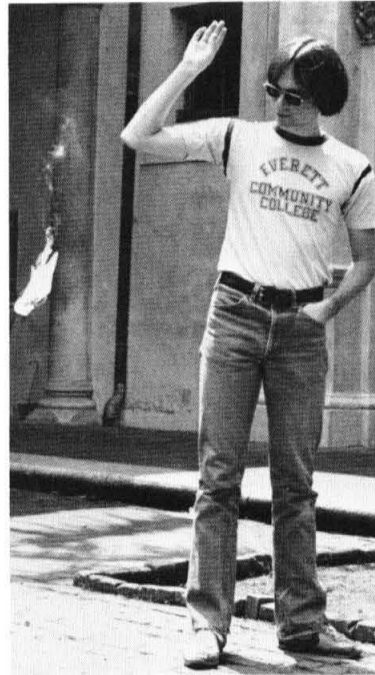
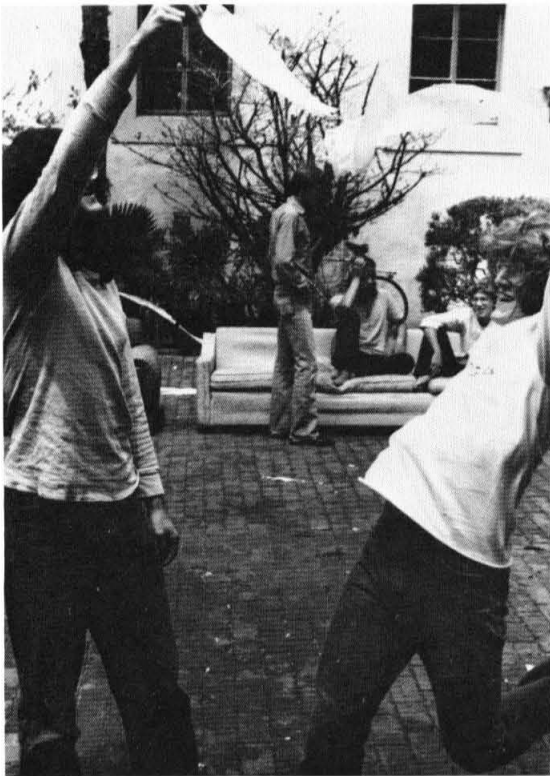
1) Would you trust this man with *your* money? 2) Sophomores (*left to right, top to bottom*): Jim Cser, Don Buchholtz, Alan Daughton, Brian Mapes, John Morrison, Cathy Ifune, Lisa Payne, Ken Hooper, Dave Weisman, Cheryl Klipp, Dave Lee. 3) Tim Brandon teases long skinny fish. 4) What? Me worry? 5) ¡Viva Cser! 6) Servomation—"Quantite ad nauseum." 7) Joel Cool 8) Sure Does 9) Tom Tucker prepares to do a swan dive into a teacup of lime jello. 10) Freshmen (*left to right, back to front*) James Mayhugh, Everett Howe, Larry Doan, Rudy Hofmeister, John Schlarb, Joel Harris, Cora Chow, Mike Roberts, Milagros Montalvo, Marguerite Payne, Ed Ussery, Jeff Keller, David Gillespie, Kevin Hernandez, Felice Borisy, Tim Allen, John Lindgren, Joel Seely, Steve Gomez, Tom Tucker, Jennifer Jerlstrom.





1) House Flakes and Swelled Heads (l to r, back to front): DeDe Draper, Mira Todorovich, Kirk Kanzelberger, Paul Ste. Marie, Elliot Hohri, Mark Tinkle, Bill Callahan, Irene Replogle, Joe Decker, Jennifer Jerlstrom, Dean Shibata, Tom Tucker, Teresa Solberg. 2) What the fuck? 3) Long distance—the next best thing to being there. 4) “Lay on McHayes and damned be he that first cries, ‘I quit!’”





swinging. Fluttering against a sheer face, pinned by the sharp thwack of a misnamed orb. Strop. Whet. Strobe. Whirled.

The wind chaot two boys unenlightened. Swirled them as eyeballs alone right by the Breath of God (frame an earlie phonograph) out of the House of couches and meanings. Vox Dei.

Later one boy reappeared, head spinning, and accepted with gravity champagne, by the quirks of choice to become a Darb. A thing remarkable. Expertinent. Innocent. Incurruptible. Inflammable. In limmine.

¡Viva San Semilla!



Extreme attraction, strange and mutual.

I was he. He was become me.

(blasphemy: n. 1. irreverence toward something considered sacred or inviolable; 2. the act of claiming the attributes of deity. /The quirks of choice become benzyl blasphemies./ see *sins unmentionable*.)

Psych I.

Sick and Dumb

Inks. They can kill you. I dream a patternedly seriouscurious dream. A petrochimerical dream. I stand where the rain falls hardest in a courtyard deserted save one soulparticle. A rock. A church. A cherry elementary. Leaking. I watch swelling round droplets of blood fall in easy leisure to spatter on dusty courtyard bricks. click...smack...slick...crack. Tiny Millikans drifting down in answer to the precedents of one force over another. Wrists slit. Wide doe eyes stare behind dark green glasses like deep sea water, and I stare too. Drops splash and crackle and paint our toes pop...cop...coppery red. Patter. Pitter. Pitter. Two arms swing up, sending scarlet sparks arcing in morning light, and two hands almost cradleclutch short, black hair. Lazy droplets become a rushing, turbidulent current which streams down raised forearms into bent elbows and pours to the bricks with a muffled roar. And gravity pools. Breath held too long surges from a stained throat. A scream. An ululating shriek echoes from high white walls. Vox et praeterea nihil. A hand bell on the far side of the crimson wheelchair rings in anger



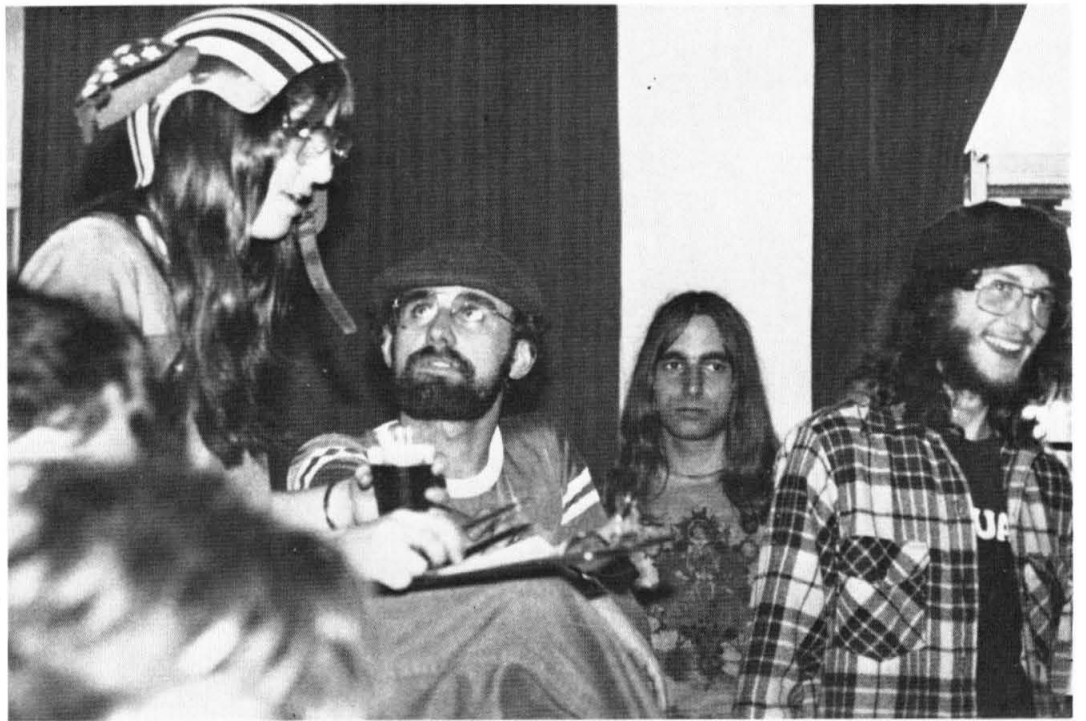
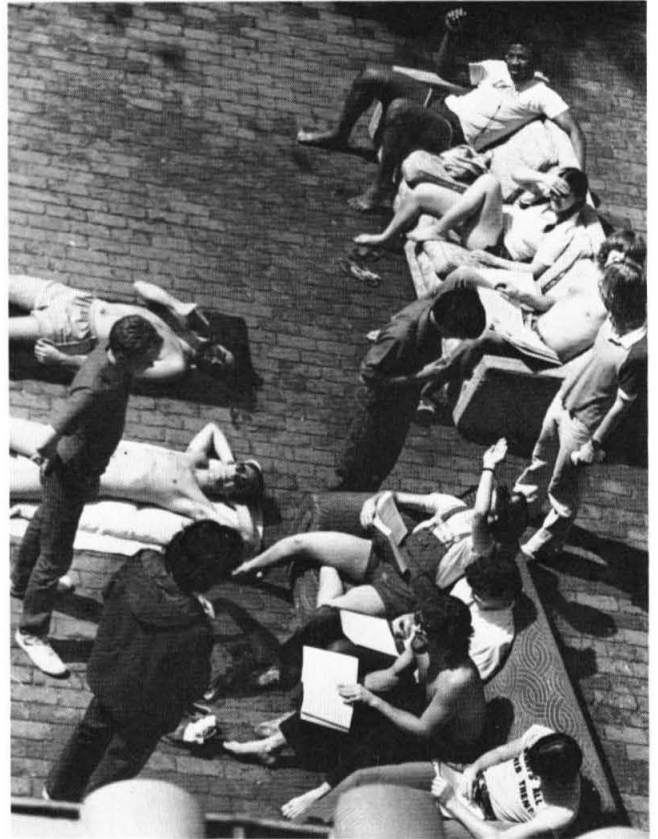
Laceration, assholes. A scream. Razor-sharp as the thin whistling whine of snow across the crest of a wind-whipped Antarctic drift.

I grope slipperily for wrists dissolving in red miasma, and I hold. The shriek loses breath and slowly fades to a querulous whimper. Red flood slows, paling to a thinly rubicund trickle. Direct pressure. Forced aid. Scream stops, stream dies. In silence, two eyes stare at me behind emerald stained glass. Eyelashes flutter once.

Then a head tears free of a neck in complete peace and spins three times end over end, spraying the air with fine red mist. Sticky hands hold and then slip from my grasp, and a body crumples. Suffering alluviated.

The death of a proton.

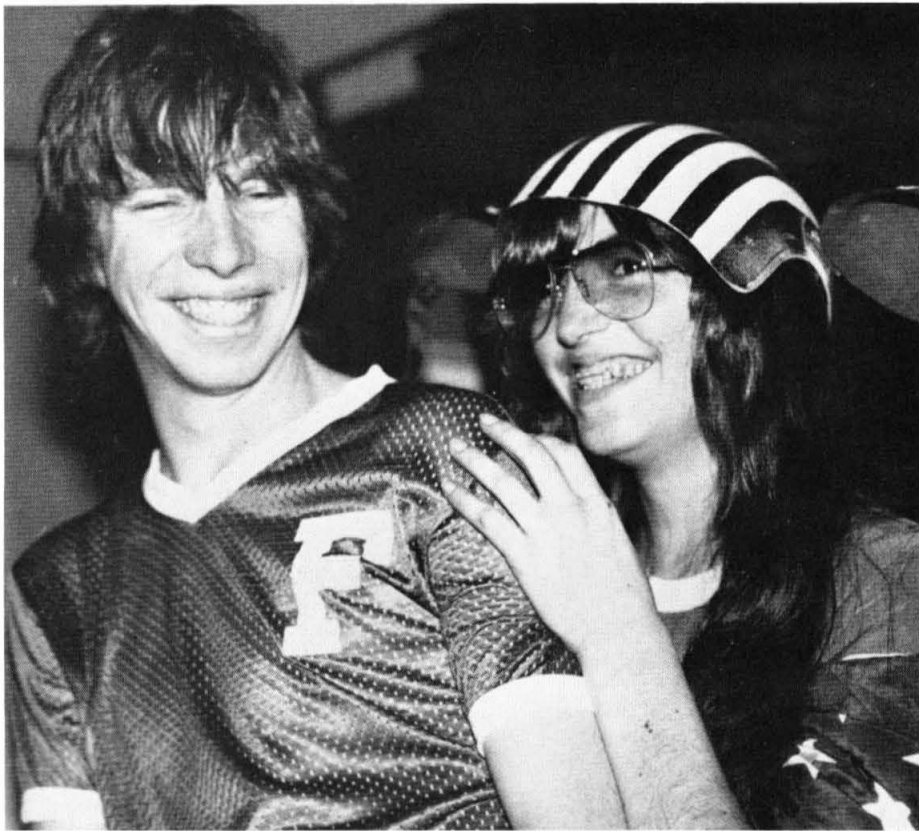
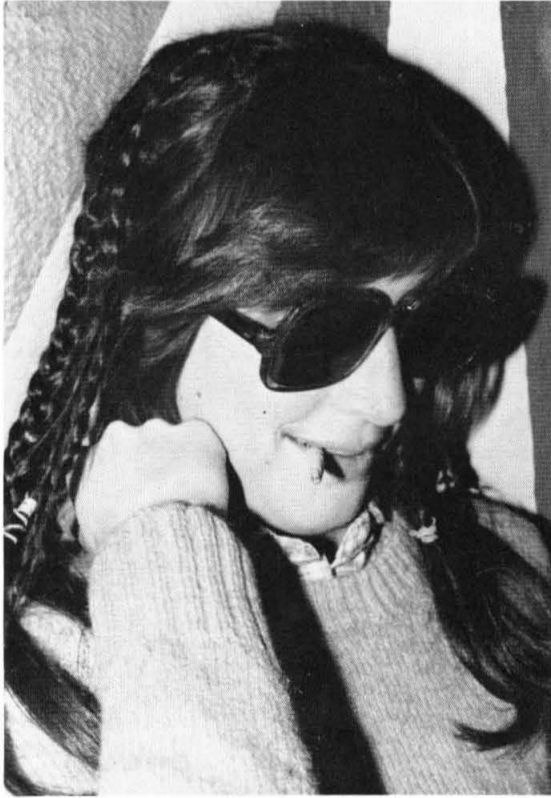




Psych II.

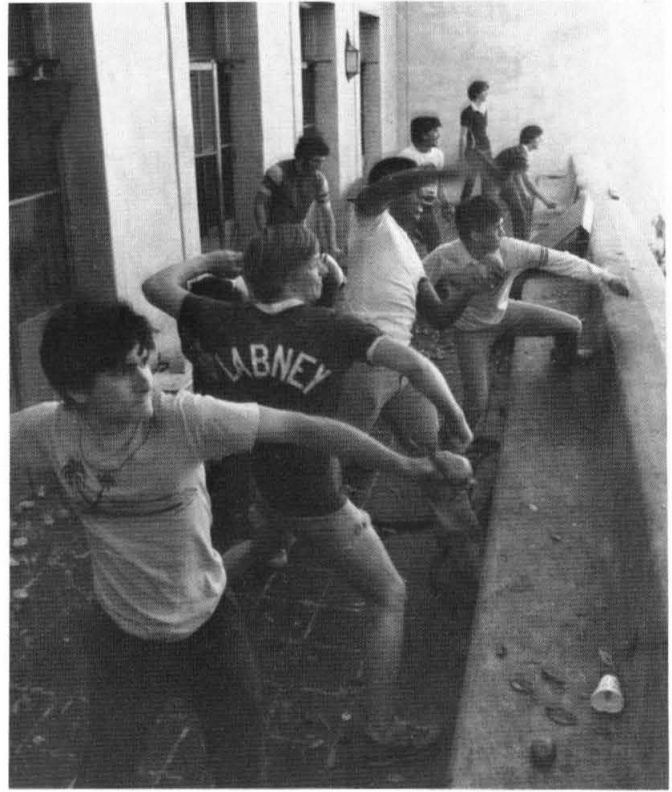
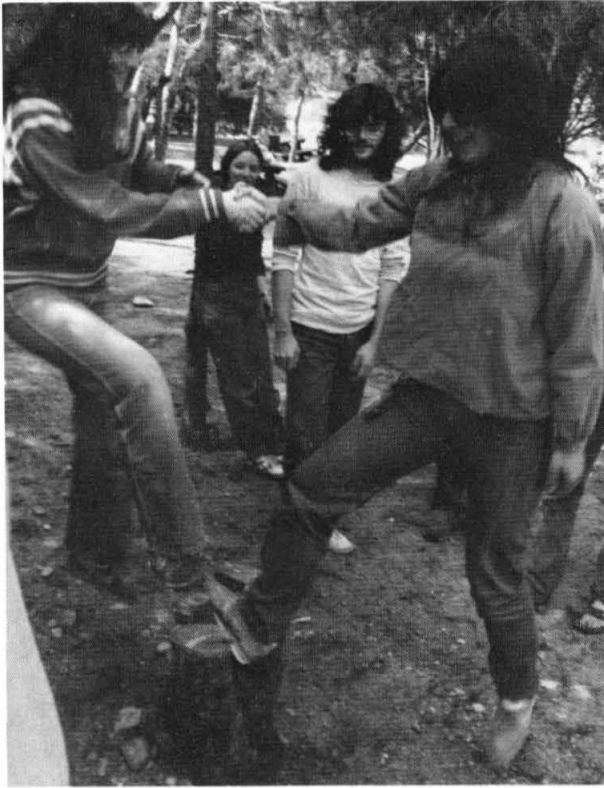
Surd Term

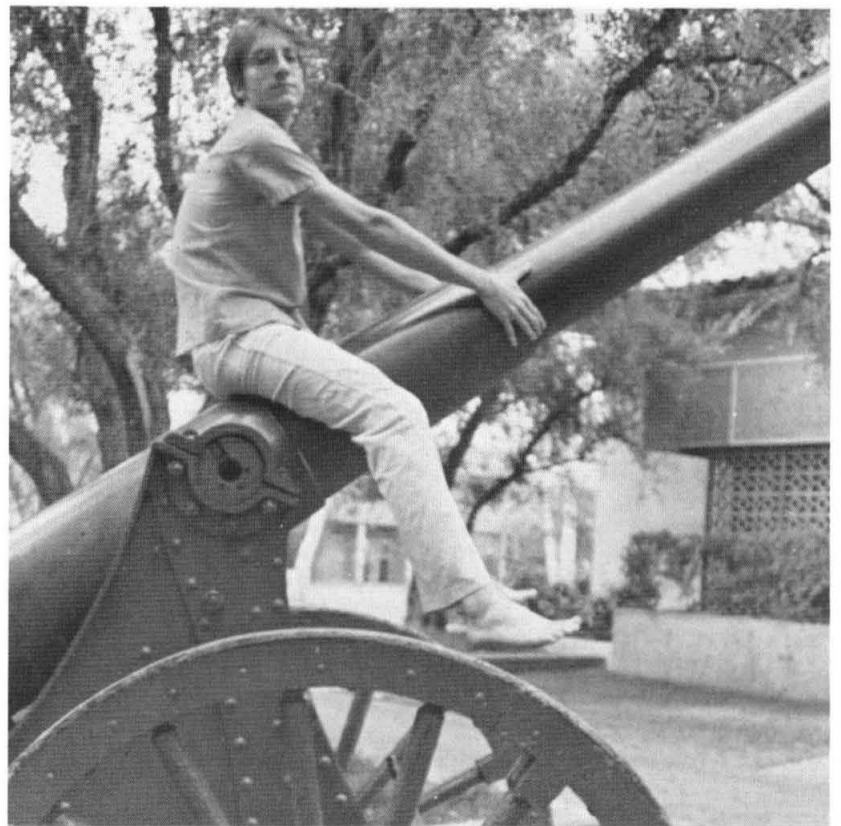
Couches, cats, camels, chaos. C. C for close tolerance. C for csertainty. C for celeritas. C for conscience. Conscience chaot. DEI, Incorporated. Everlasting errorfact, and altar egos: everpetrockirsche—body of one, blood of the other. Pizzapanther, paternoster, patternseer-accuser, petersnostrils. Regularly beat Plato. That's what computers are all about. Numb births. Aerial lords. Light Ardor. Starchostic BARBs and green elf-reverence. Airvet. Airventoolate the sceutsiweuts of TURPINtime from twenty-two. Allforabit. Big boolean boobs—yessirknow? Eh? MAYWHO? Brain/Mind Bugging. Oh, THTUART. Ich habe Goethe nicht gelesen. Nicht gut. Goodnight. And he left with SEG written all over his. Are we not men? Lemurs? Lemmings? We are Darbo. Keenly sentential. House of weards...words...wireds....Wits left. I caught conscience thinly. And I lie. I lie. We have our daze in court, our days, our dais. Our entire alphabet, from levo to dextro. Vitamins and friedamines. Our cats, our fractal cats. And the new, improved present BABS TURBINE. She's a kinetic taco, tomtaco. Calmly censured mornings. BRUTAL SAMSaran lightning bugs and merrily earnest firebugs. But richacted naturally an astrophysicist. Poggonestly.

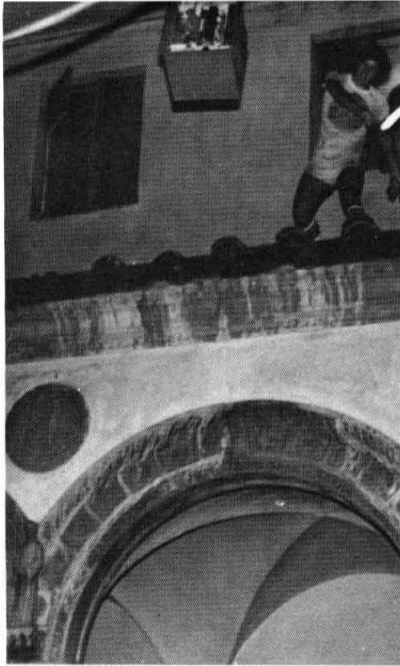


Ahforget the way the words end. Evephant remembers. TA...B. How are things out there? Here
everythink is onoffmottopoetic. I don't know why. Do you? Why not?
Psych III. You're out.

—Tom Tucker







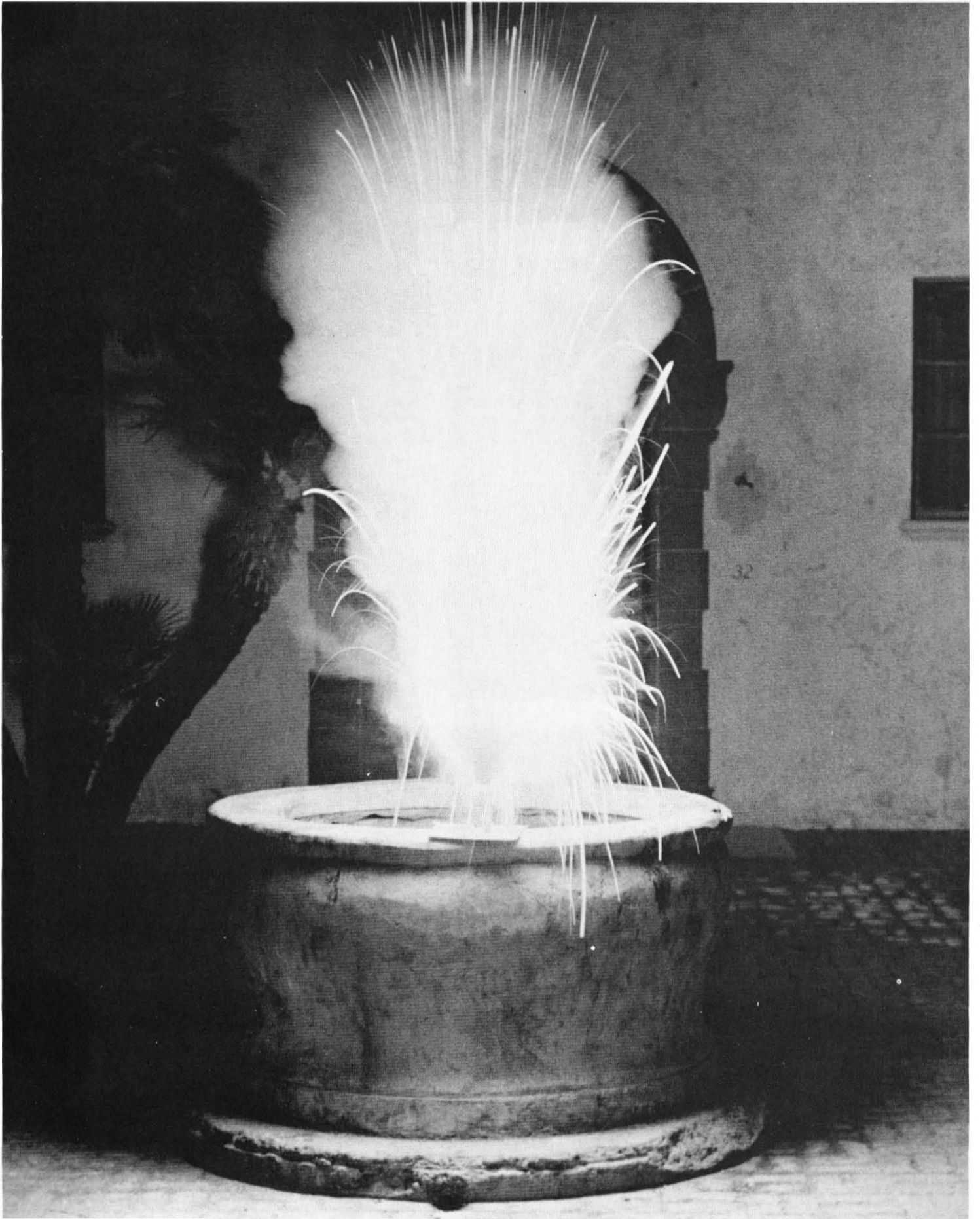
Before I leave I'd like to let you know...that the love that's in your heart wasn't put there to stay...I want you to know that love ain't real love until you give it away...you gotta share it with somebody...try to spread a little bit if you can...and enjoy your life 'cause it's the only one you got...live it with gusto...

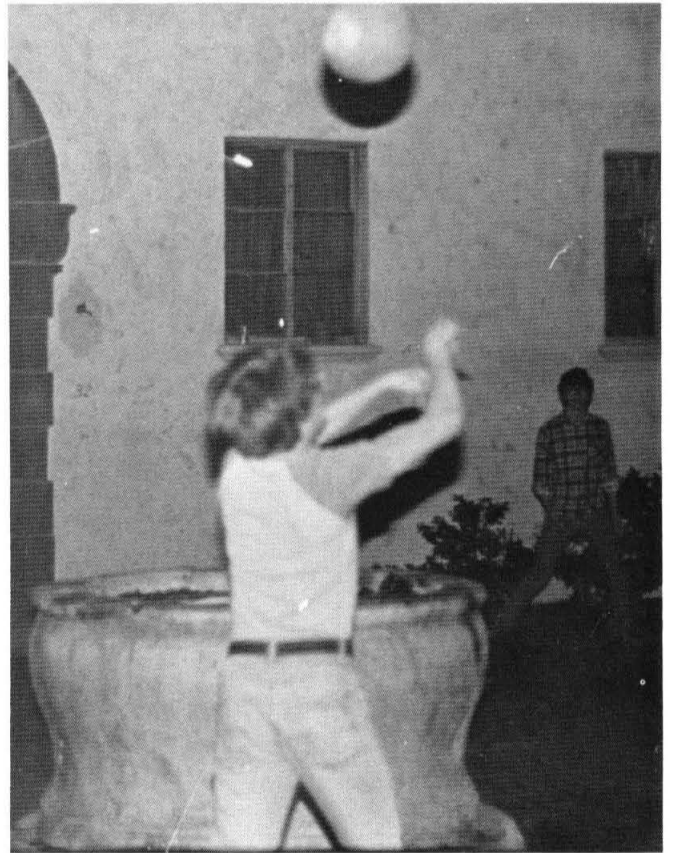
ROCK YOUR ASS OFF!!!

— Sam



RICKLETS

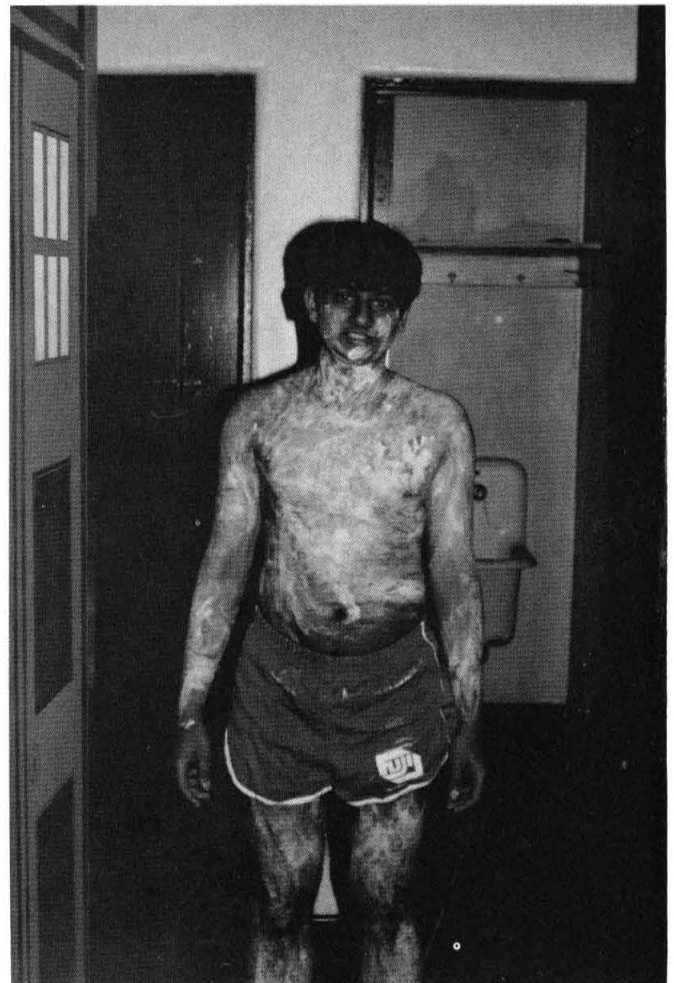




above Couldn't miss. Right?

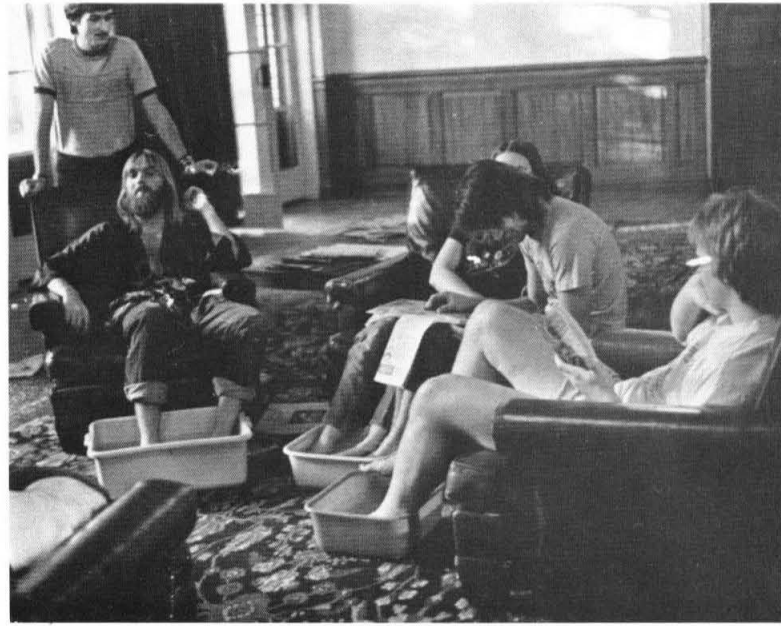
left You should have seen the one that got away.

below Some gong keepers will do **anything** to avoid being showered.





WRONG



Come on in. The water's fine.



All right, guys. Who stole my rubber ducky?

above Dan Dickerson demonstrates another new toy.

right **Scurve waiters:** back Andy Wolf, Saxy Workman, Charles Barrett, Bill Banks, Andre Burgoyne. center Pete Alfke, George Karas (head waiter), Brenda Roder. front Charles DeBardleben, Peter Konopka, Minami Yoda.

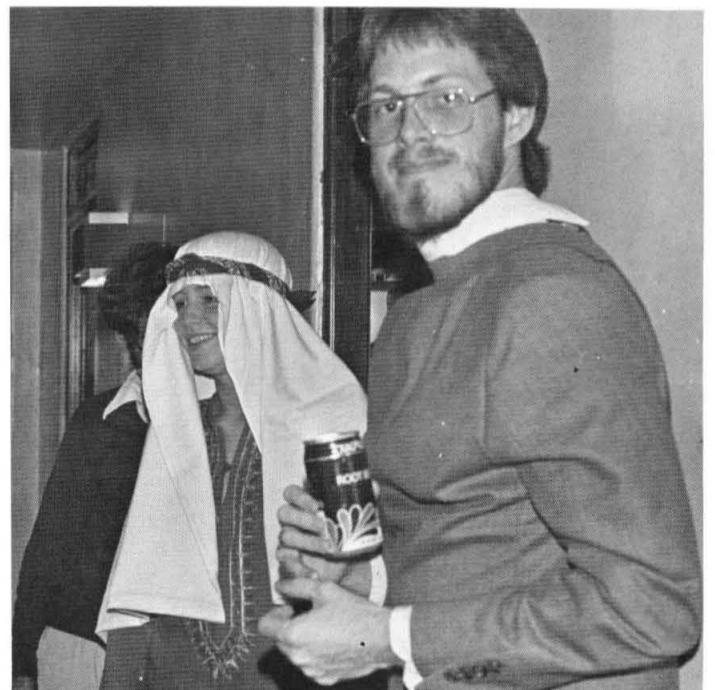
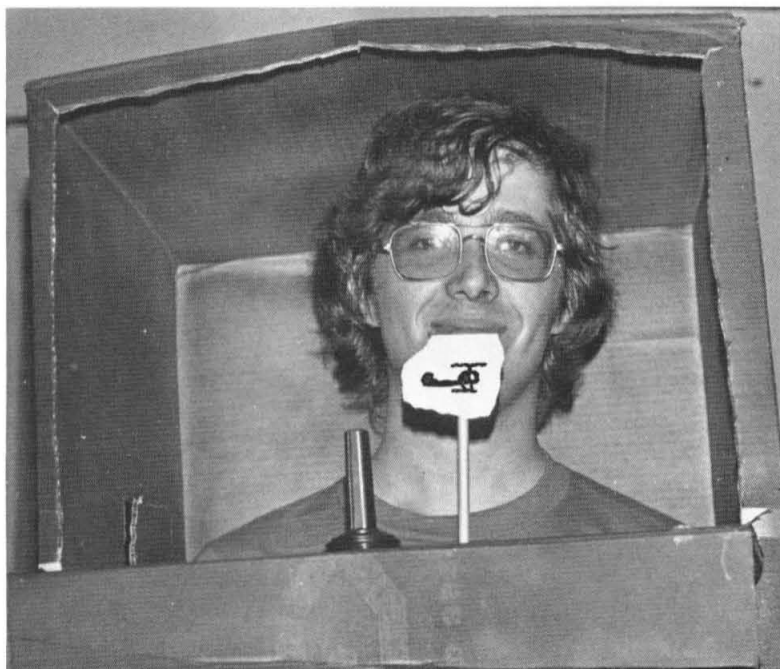
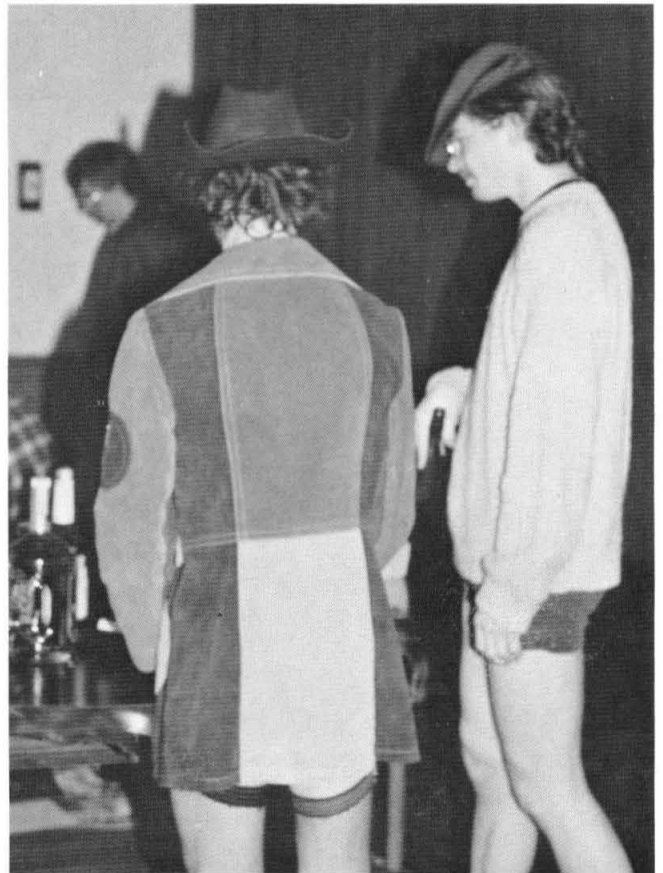


halloween and the BAD TASTE PARTY

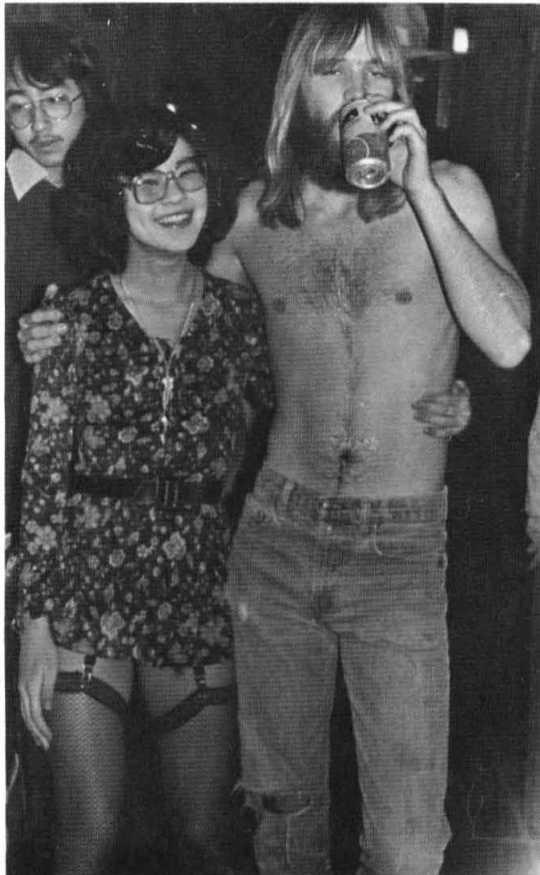
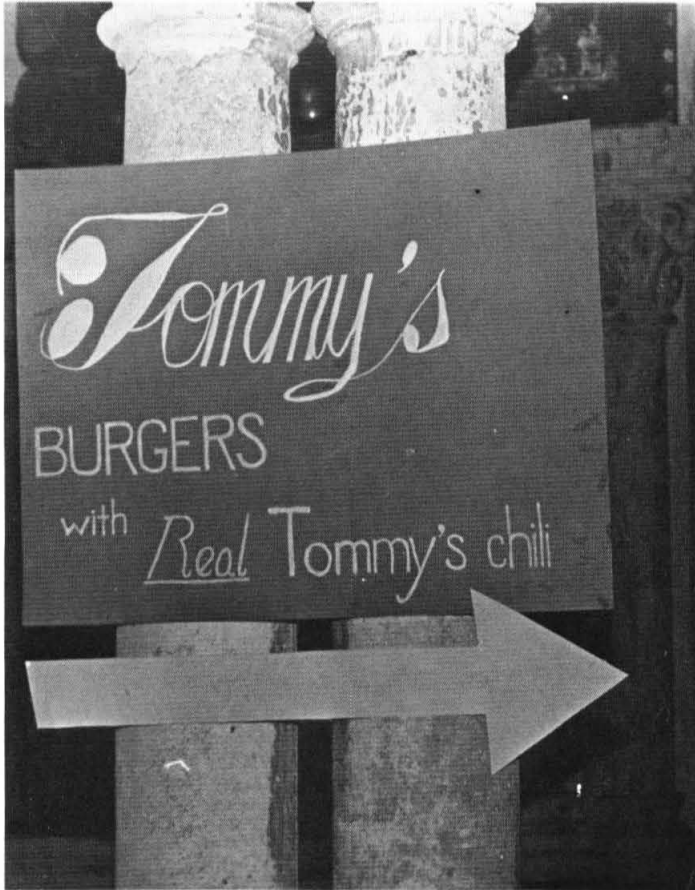
Did you ever notice how *all* of the major social events of Ricketts House involve dressing up and acting weird: Halloween, The Bad Taste Party, Interhouse and Apache?

Halloween *clockwise from the left top:* Santosh Krishnan in typical pose, Dan Dickerson in his natural habitat, Cindy Morss and a backwards Bongo.

Bad Taste Party *top right:* Bob Mackey and Fritz Nordby—look at those legs.



Interhouse



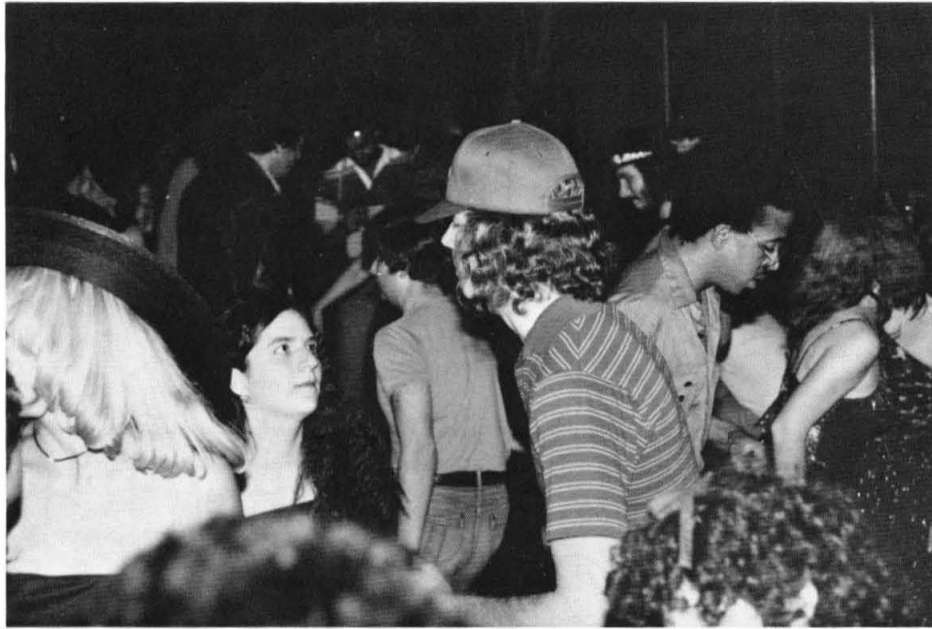
This year's Interhouse once again was selected for minimum work. So we simulated one of the sleazier neighborhoods of Hollywood, complete with adult theatre, prostitutes and real Tommy's chili.

left Minami Yoda and Andre Burgoyne.

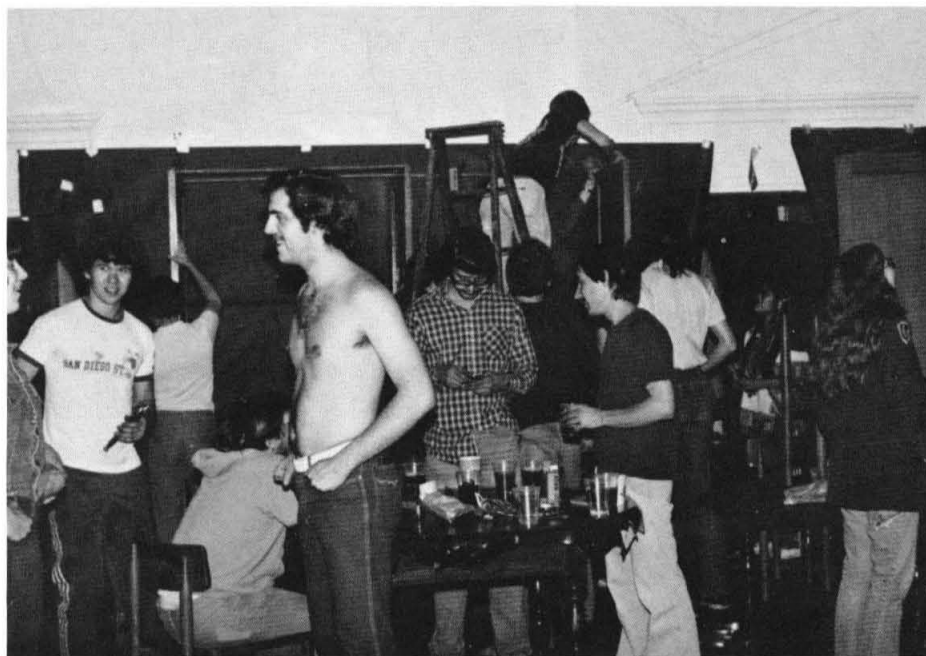
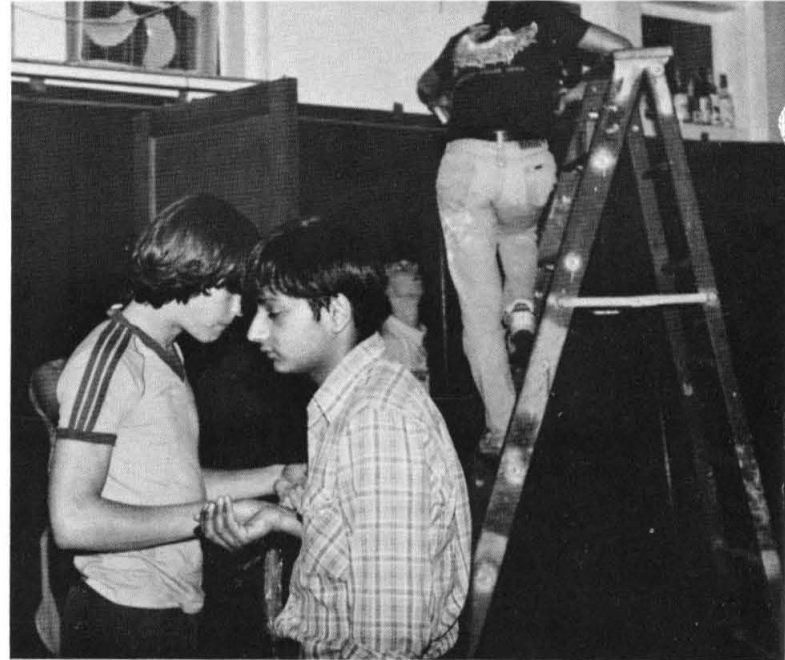
right Bob Mackey and Janet Tamada.

censored for obvious reasons The actual Tommy's chili and the late show and the Mann's Chinese Theater.





apache





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and other dances



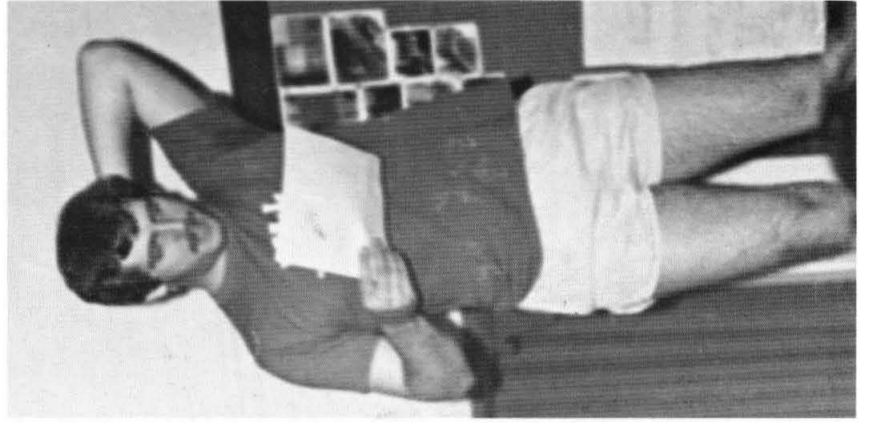
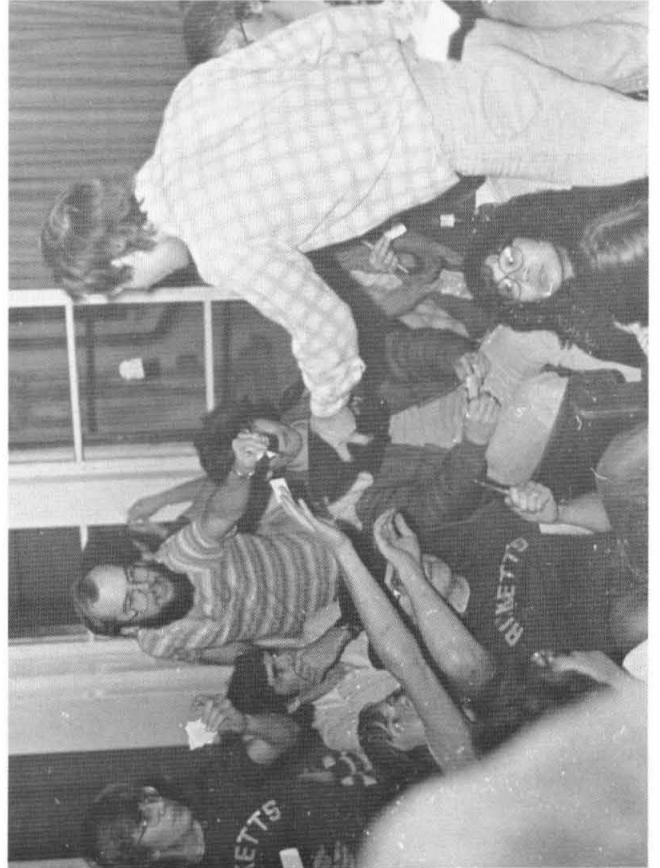
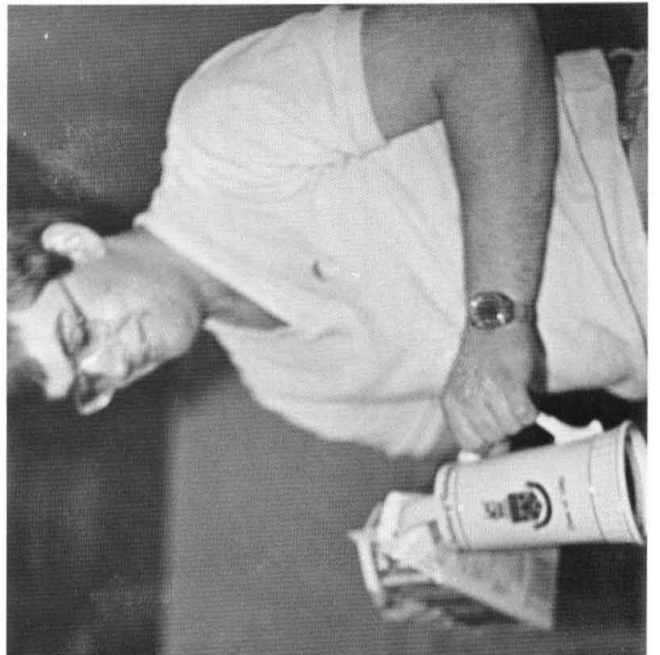


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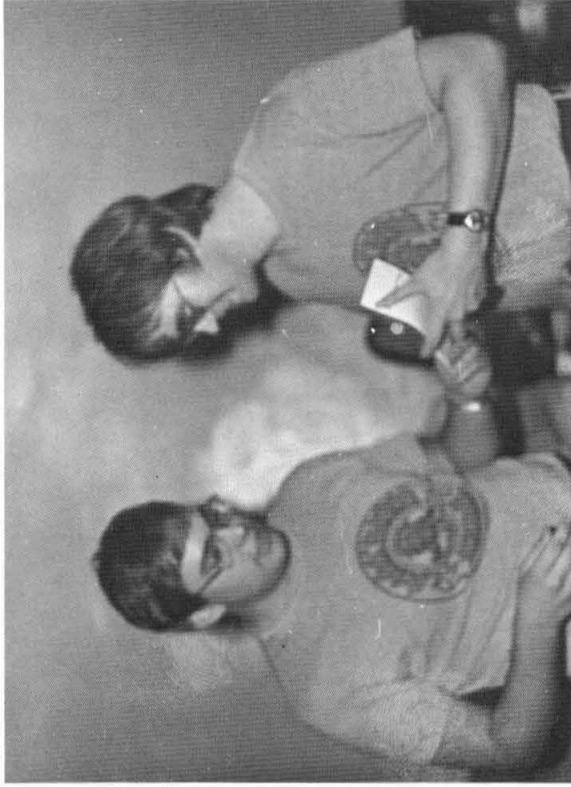
elections

and house
meetings





Greg Gallagher: House Target

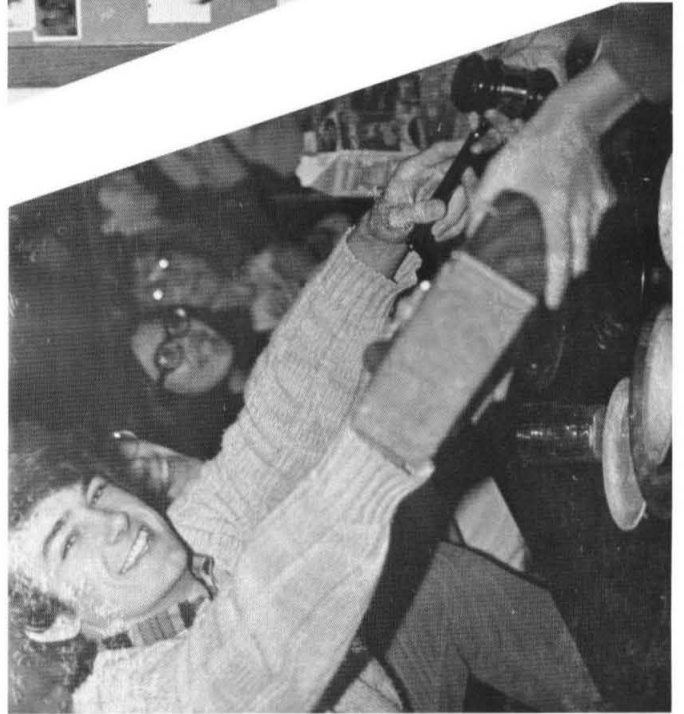


A change in treasurers?

House Officers

- President:*
Richard Miles—Janet Saylor
- Veep:*
Julie Anderson—Andy Wolf
- Treasurer:*
Derek Straub—Steve Brown
- Social Team:*
Alan Dellamore—Bill Banks
- Secretary:*
Jennine Murch—Minami Yoda
and Jennine Murch
- Librarian:*
Janet Saylor—Russell Almond
and Sylvia Luedeking

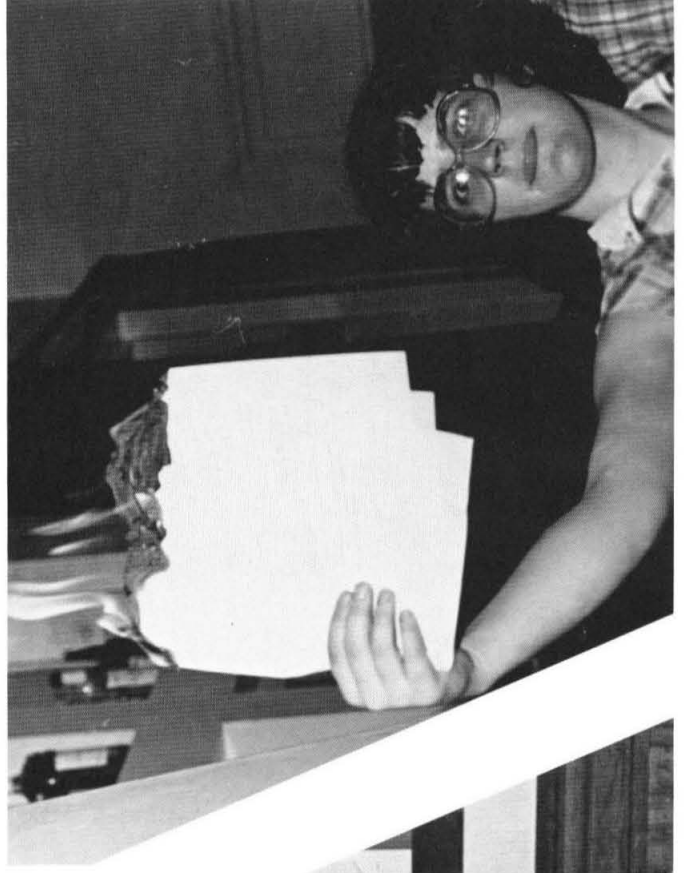
Richard relinquishes power...



...Janet seizes it...



...The house ignores it.



Ditch

clockwise from right top:

—Gary Mockli's Premed Stack.

—Richard Miles finds in his room (surprise, surprise) a full scale model of Gregor Samsa (after the apple hit him).

—A very *small* part of Derek's bribe.

—Oliver does his bit of useless tinkering outside of Richard Miles' door.

—Peter and Peter-Pete re-enact the balcony scene from *Romeo and Juliet* (complete with tennis shoes).

—The window to Dave Oare's record-breaking brute force stack is secure. It takes until 2:45 p.m. to get in through the ceiling!

Not Pictured:

—Eight people belching outside of Jim Merino's door.

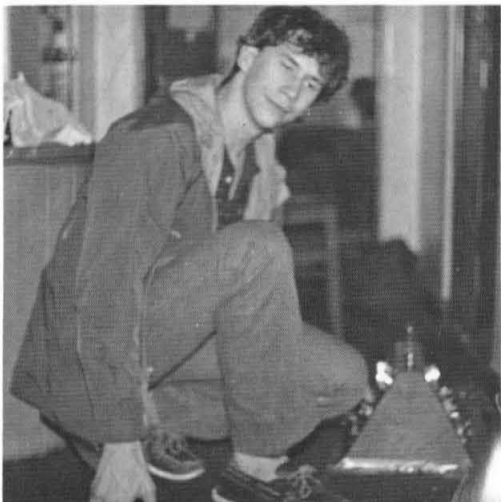
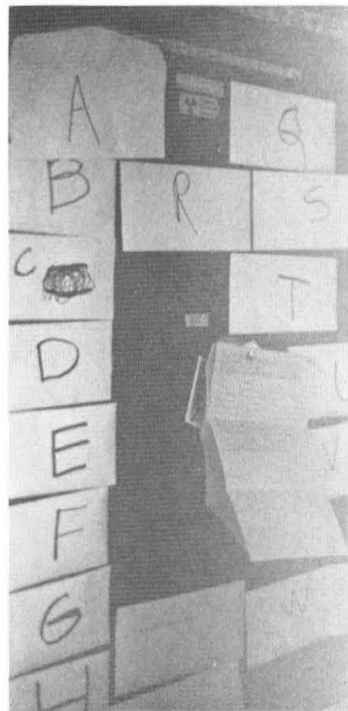
—The senior breakfast on the fake Ditchday.

—Julie Anderson's killer rabbits.

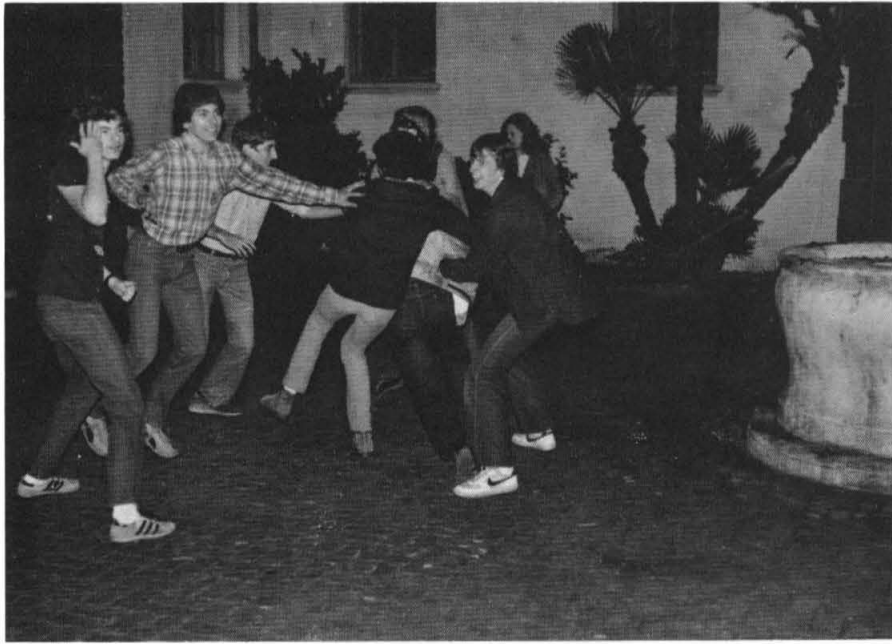
—Russell's 100 leftover bagels.

—Saxy eats pie.

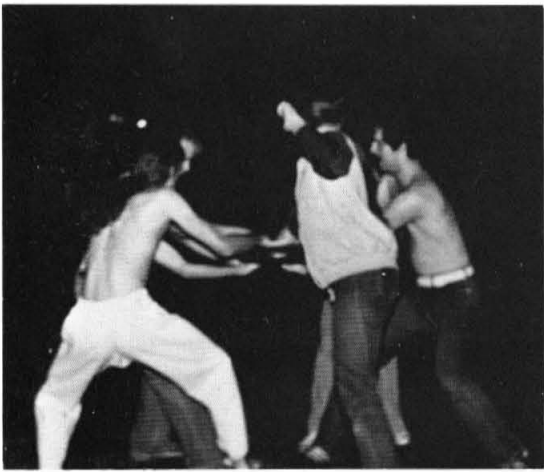
Day



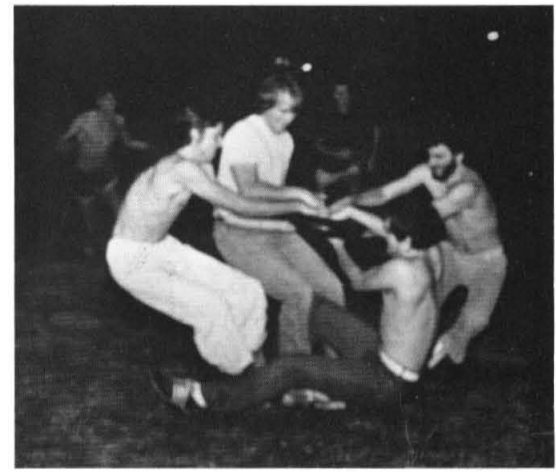
B
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SCURVES

Seniors left: **back** Gary Tanigawa, Dave Oare. **on the wall** Justine Armantrout, Barry Lippey, Russell Almond, Charles DeBardleben, Dan Dickerson, Gary Mockli, Eric Sinn, Jennine Murch, Sam Sjogren. **climbing** Brian Leahy, Dave Schultz. **not pictured** Jim Cummings, Mike Doty, Jim Scoby. **Prexy** Jim Merino, Julie Anderson, Derek Straub, Richard Miles.

Sophomores below: **on the pot** Brian Metscher, Bob Mackey, Sylvia Luedeking, Steve Brown. **standing** Andy Wolf, Misha Mahowald, John Hartzberg, Andre Burgoyne, Tom Bulgerin, Minami Yoda, Charles Barrett, Brenda Roder. **in the pot** Bill Sharpe, Eloise King, Kurt Anderson, George Yoshinaka, Serge Granik, Lawrence Anthony, Tom Foley, Stan Kuo, Jay Raemsh, Katrin Rodriguez, Dede Draper, Teresa Solberg.

Card Table below right: Clark Brooks, Ken Shrum, Alan Dellamore, Tim Pearson.

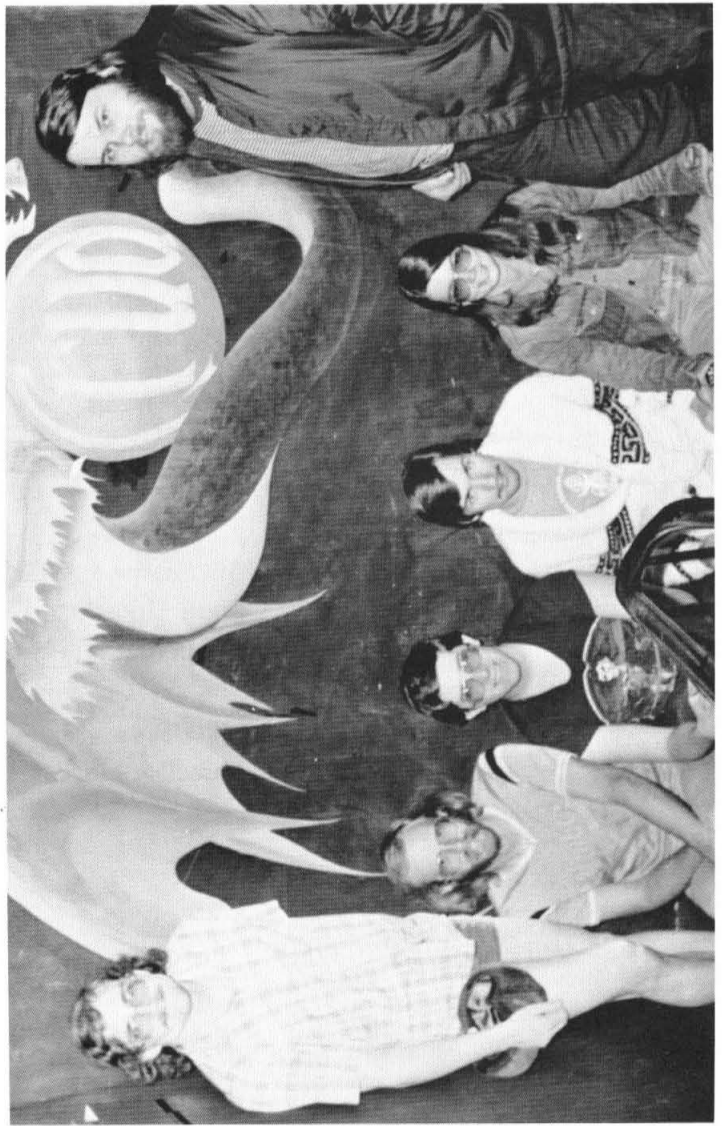


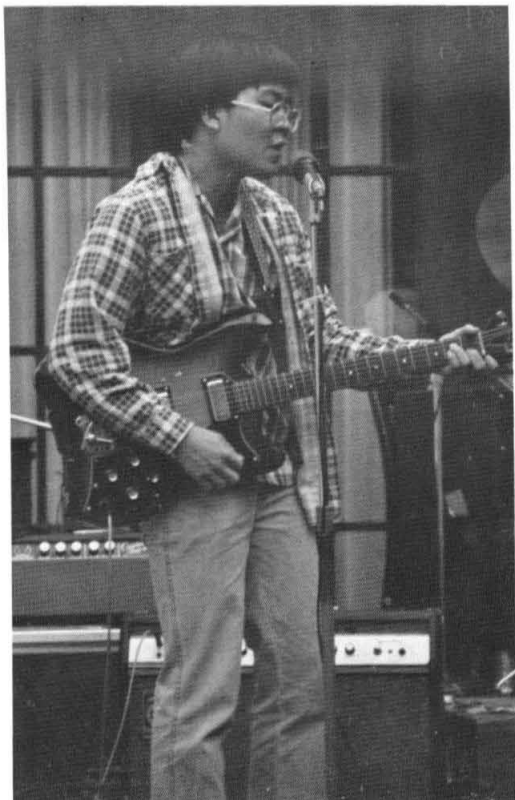
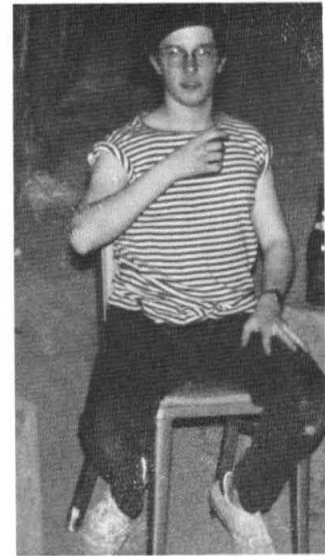
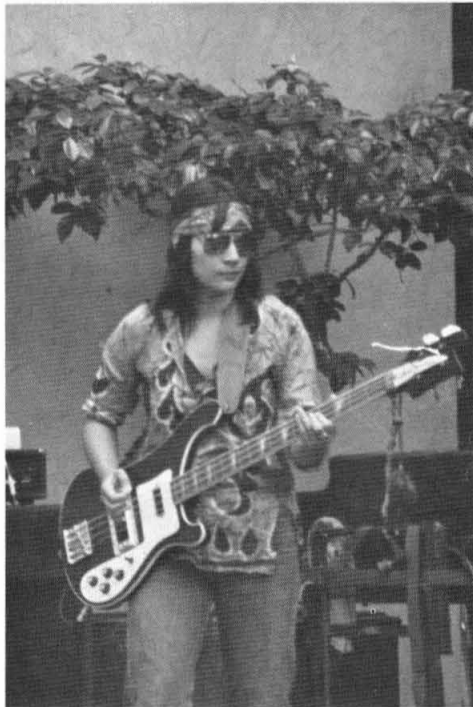
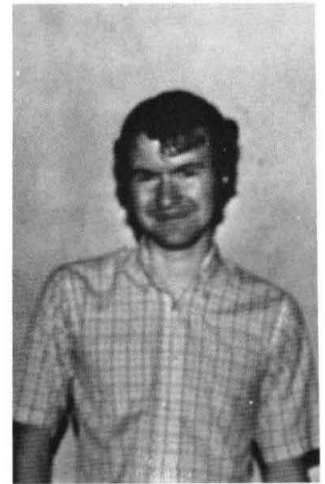
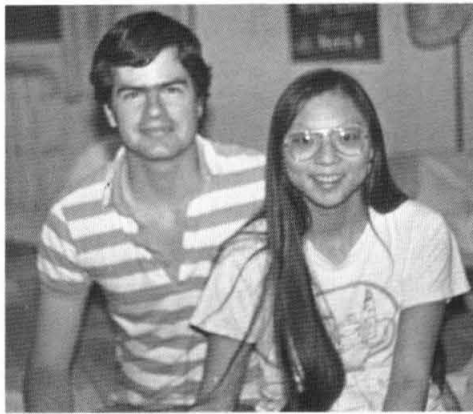


Freshmen left: front Pete Alfke, Peter-Pete Konopka, Bill Banks, next row Bruce Tiemann, Ami Neiman, Tom "Saxy" Workman, Art Duval, Santosh Krishnan, Erik Ebert, **third row** Scott Richman, Charles Flaig, Everett Howe, John "Fourqats" Fourkas, Keith Bowman, Tom Tysinger, Charles Budney, Johannes Schmidt, **back** Kori Ghandehari, Mike Crawford, Greg Gallagher, **flew away** Joy Watanabe, Janice Sakai, Greg Bolender, Karen Condie, Cindy Morss, Kim Pao, Matt Rowe, Sarah Santoro, Tsutomu Shimomura, David Betz.

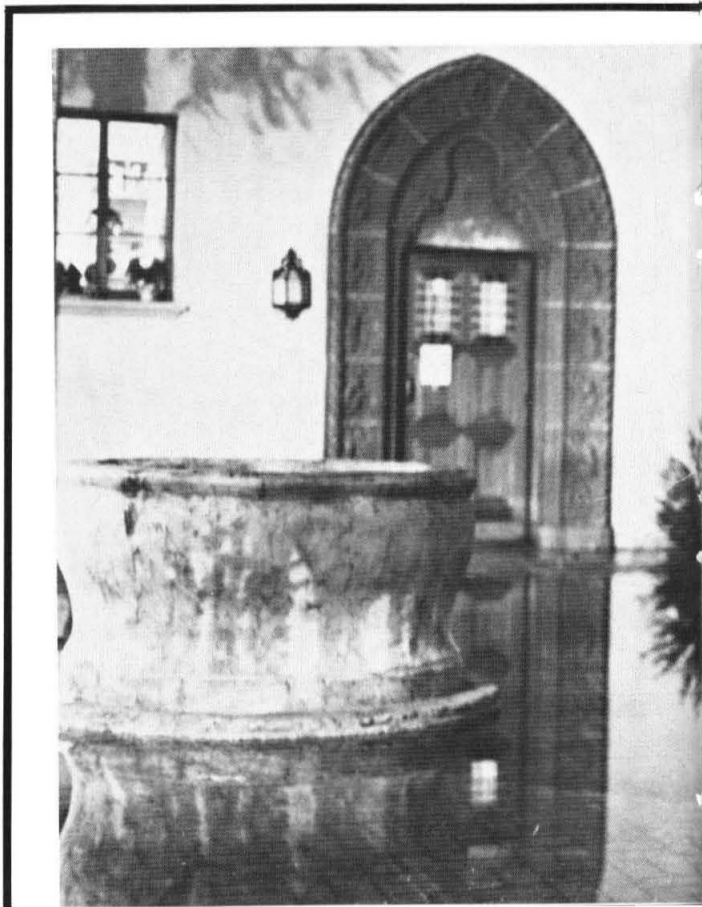
Juniors below: top Hiram Hunt, Richard Honrath, Barb Turpin, Tom Bulgerin, Bruce Richman, Evan Manning, Tak Leuk Kwok, John Eng, **bottom** Janet Saylor, George Karas, Janet Tamada, Ed Suranyi, **seated** Marc Buffet, **drowned in cold water** Mark Lindsay, Les Grate, Clint Ballard, Connie Bennit, Oliver Collins, Wuwell Liao, Daniela Bonafede, Tracy Furutani.

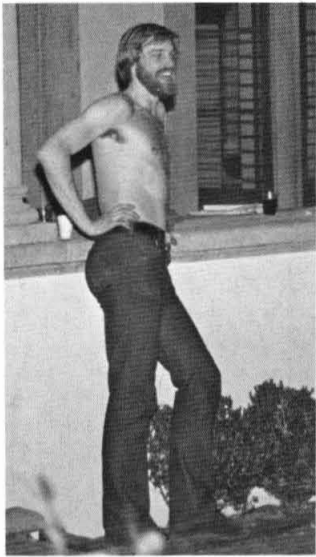
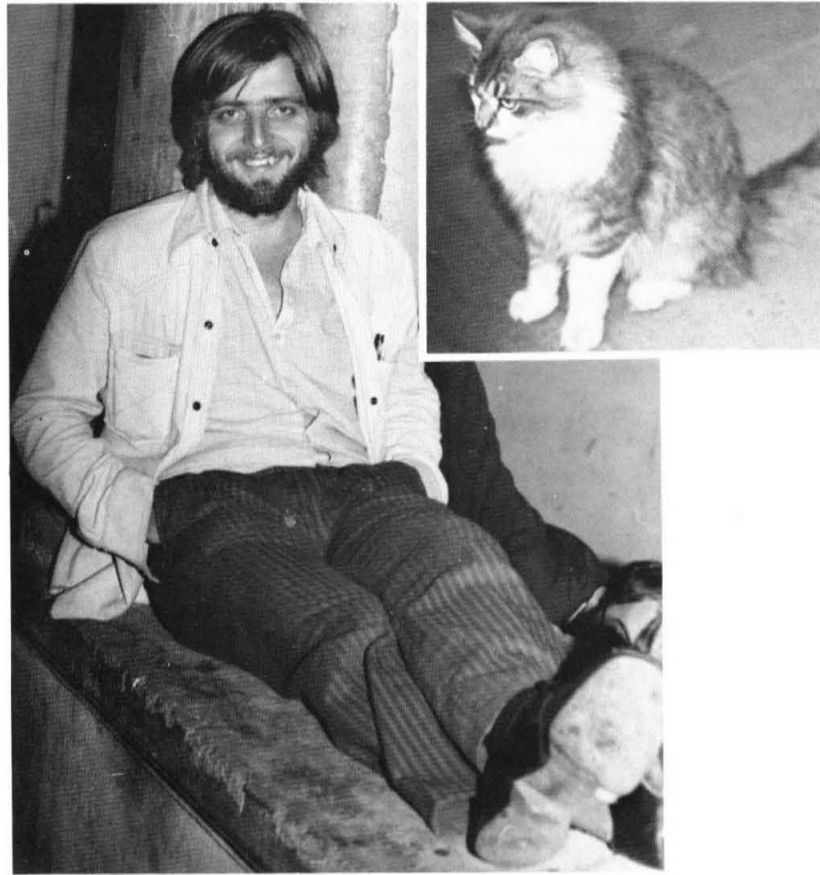
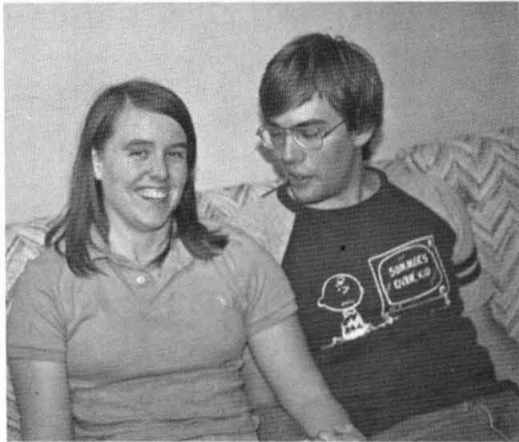
Others below left: Fritz Nordby, Dave Sivertsen, Dan Dickerson, Alan Dellamore, Bonnie Petheram, Tim Smith.





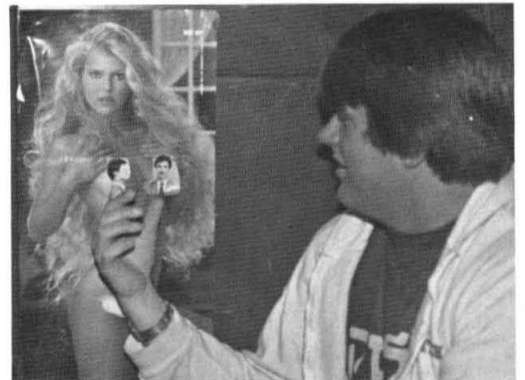
clockwise from lower left:
 Tracy "The Qat" Furutani
 Bob Bolender
 Joy Watanabe
 Kathy Doughty
 Bill Sharpe and Eloise King
 Mark Lindsay
 Derek and Julie Straub
 Tim and Octavius RA
 Mike Doty
 Russell Almond





center row:

Anne Herrmann
 Matt Rowe
 E. J. Holstege
 Oliver Collins

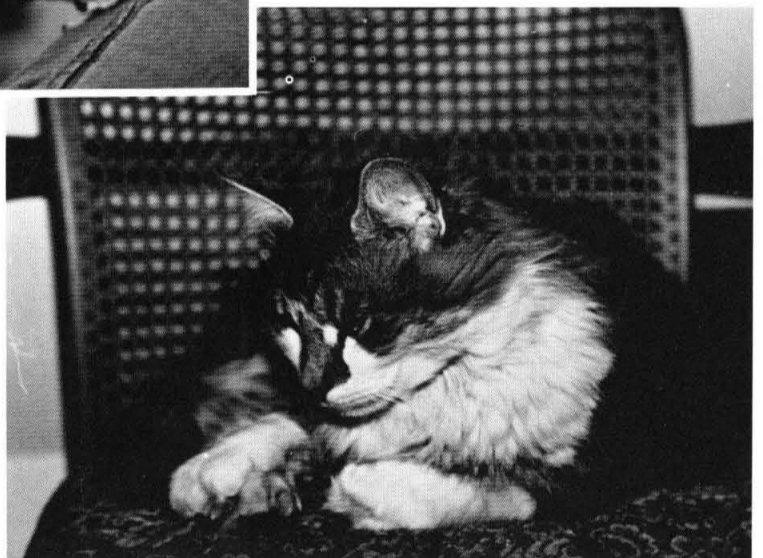
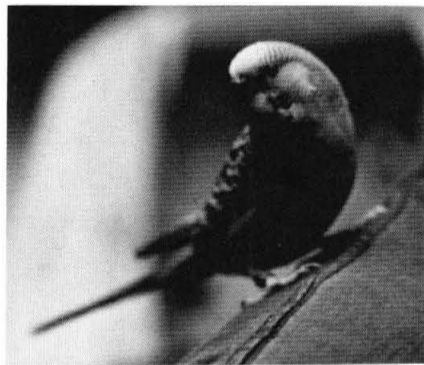
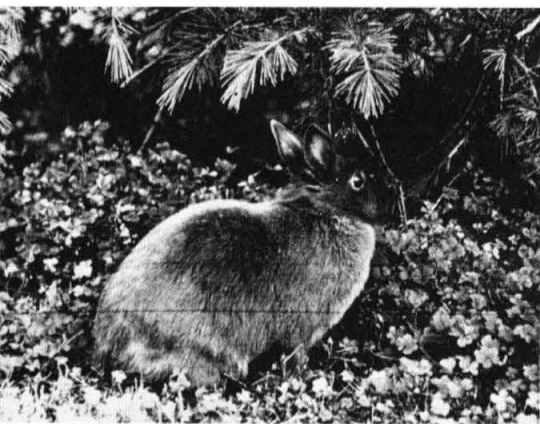
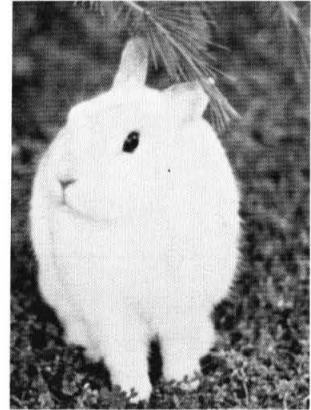
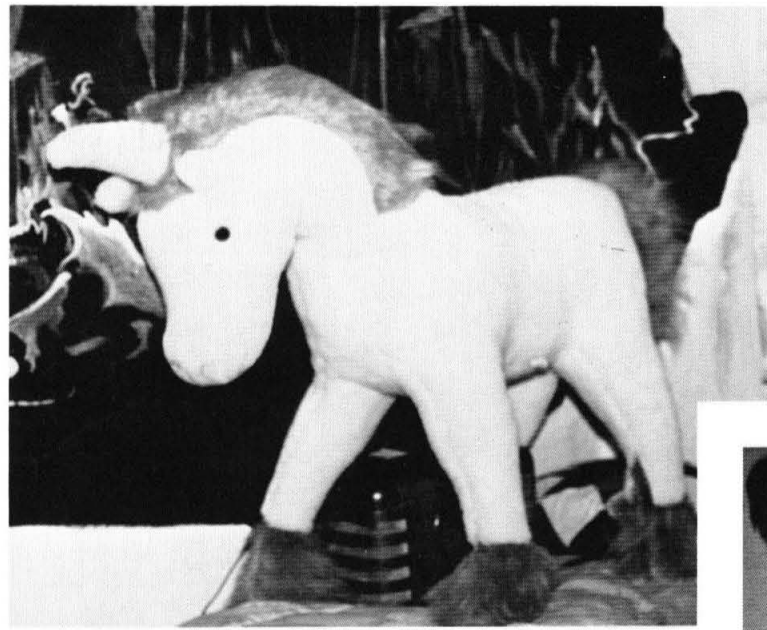


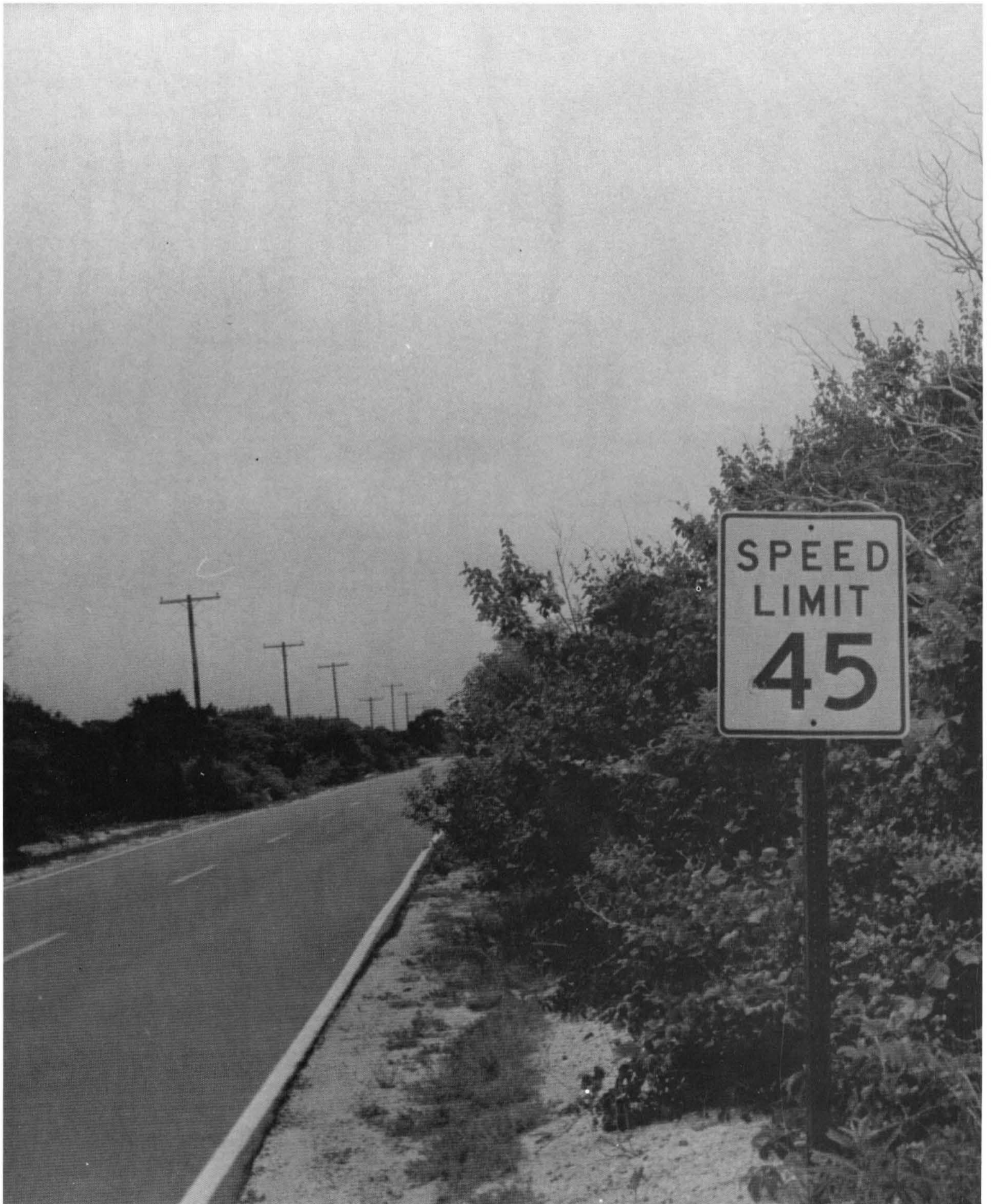
Editors: Russell Almond
 Sylvia Luedeking
Photos: Russell Almond
 John Fourkas
Darkroom Help: Roger Fong



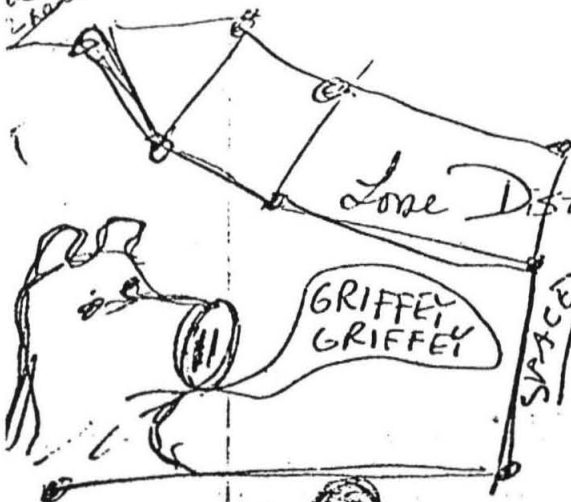
clockwise from left top: Therem, Ricketts' Ex-Comm, Mildred, Crud, Octavius, Halley, Chubs. center Jerry and Perkey.

The Menagerie

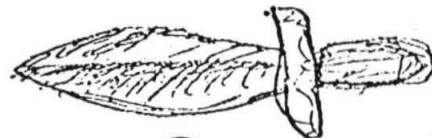




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show



Loss Distinction Between Figure + Ground.



PIGZ 'N' ART
The SPAM
DAGGER

PASSAGE

Ceyanne influen
on Picasso

(the Reservoir)

La Horta



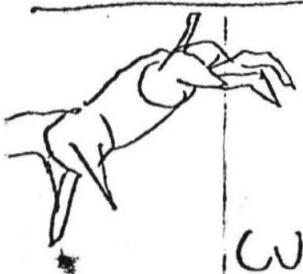
GRIFFEY
GRIFFEY



Ice cream cones
(sphere, cylinder
and cone)

Sie sprechen von meiner
zukunftien Frau

KAHNWEILER

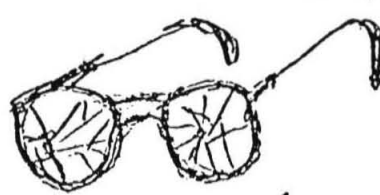


CUBISM → SYNTHETIC CUBISM



MON DIEU!
MY VIOLIN HAS
BEEN RUN OVER
BY A TRUCK!

G. BRAQUE



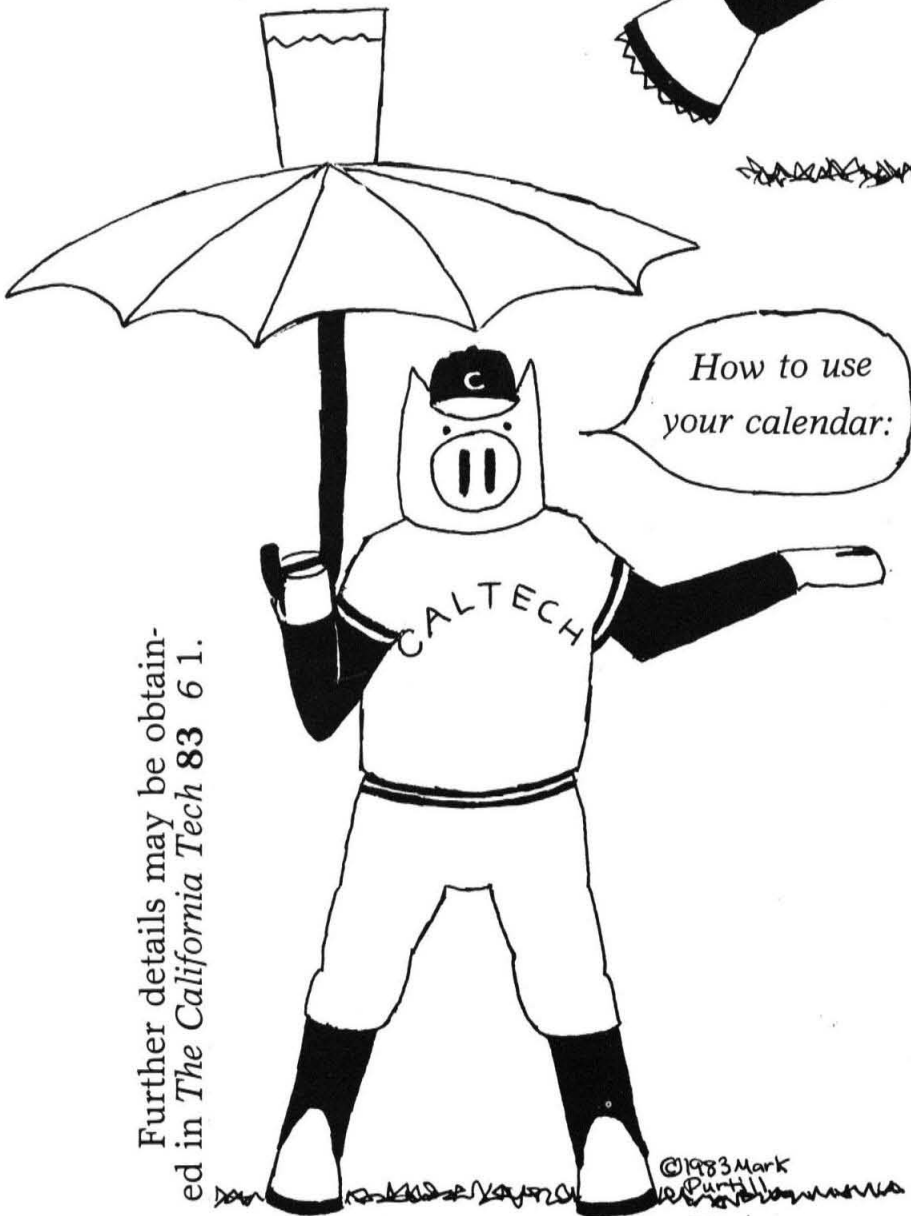
PICASSO'S
GLASSES



EXTRA-WIDE
RECEIVER
LYNN SWINE

DINGUE
SPORTS

-91i
SPORT
calendar



Further details may be obtained in *The California Tech* 83 6 1.

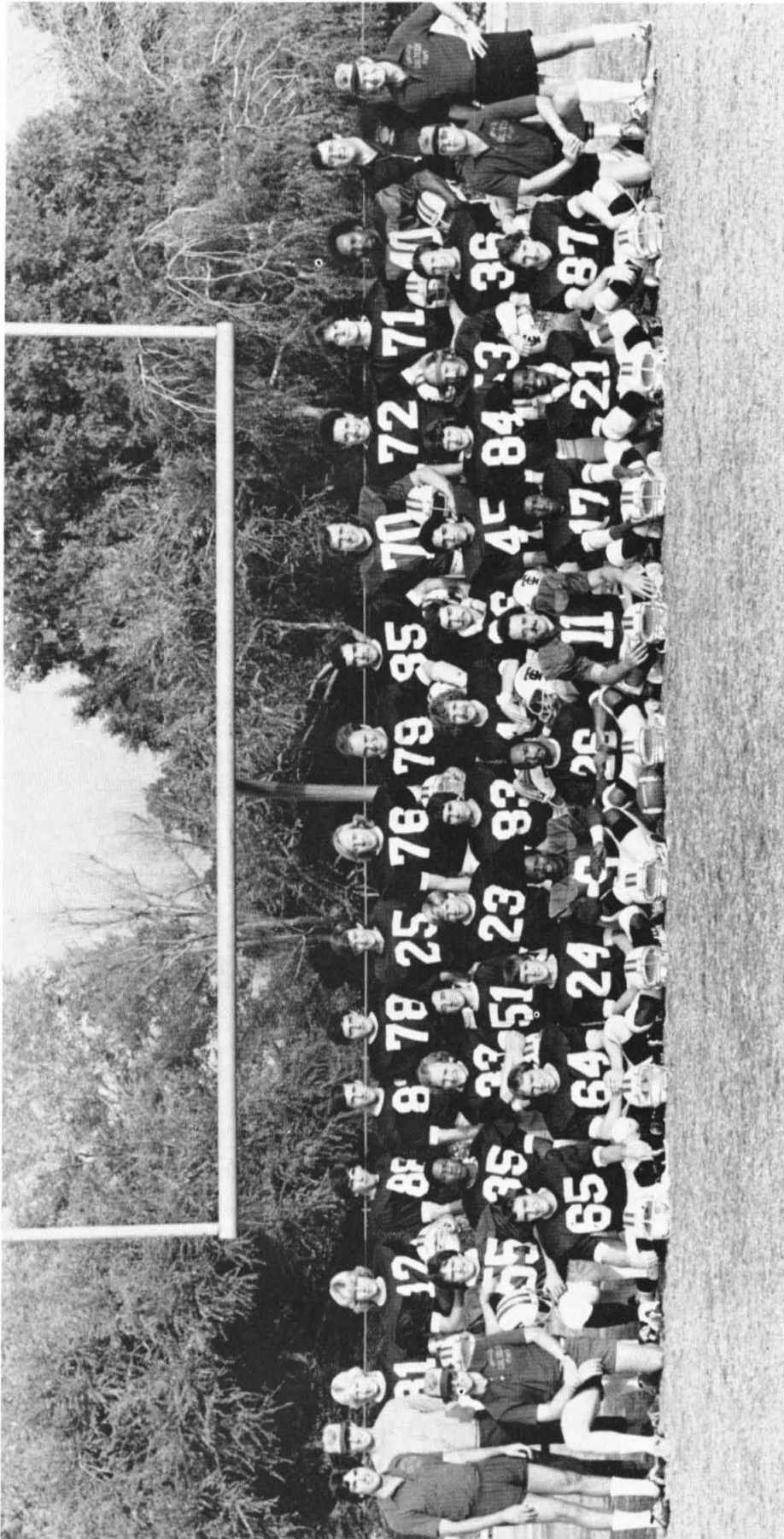
The months of your **Metric**[®] calendar are named after famous scientists. (Note: the month of **Q** is not named after a famous scientist). Each month has as many weeks (of six days) as it has letters in its name. The year begins on the second of November (old-style) with the first of **Tesla**.

The six days of the week are named, in order, **atto-**, **exa-**, **gigi-**, **nano-**, **pico-**, and **tera-**. Thus the first of **Tesla** is also, and more commonly, referred to as the first **atto-Tesla**. Note that both **tera-** and **atto-** are holidays, equivalent to the old-fashioned Saturday and Sunday.

The month of **Q** poses a problem; in years that aren't leap years, one day must be omitted. The day selected is **exa-**, for obvious reasons. As an added bonus, your **Metric**[®] calendar has two (2) months of **Q**. This is not a mistake: one is for use in leap years, and one is for use in other years. (The one without an **exaQ** is for nonleap years.)

-91i Caltech Football Team

Record: Won 3, Lost 4, Tied 1, Standing: none.



Standing (left to right): Coach Tom DiChristina, Trainer Jim Beazell, Karl Clauser, Phil Scott, Tim Magee, Scott Bloom, Kirk Brattkus, Ed Felten, Jim Neitzel, Dave Kuder, Pete Rodriguez, Dave Brinza, David Hayes, Greg Sayles, Roy Harris, Head Coach Lin Parker, Coach Dean Bond.

Kneeling: Coach Scott Laurence, Charlie Miller, Ed Ussery, Larry Sverdrup, Ara Kassabian, John Humphrey, Tom Tysinger, Kurt Lemke, Pat Harrison, Paul Barros, Rick Roberts, Eric Davidson, Jim Applegate, Coach Eugene Tashima.

Sitting: Marc Schuyler, Steve Martin, David Childs, Darryl Clisby, Thumper White, Brad Anton, Vince Riley, Kenny Baker, Daren Casey, Pete Townshend.

Tesla

atto exa giga nano pico tera

1 2 3 4 5 6

Calendar Day

7 8 9 10 11 12

13 14 15 16 17 18

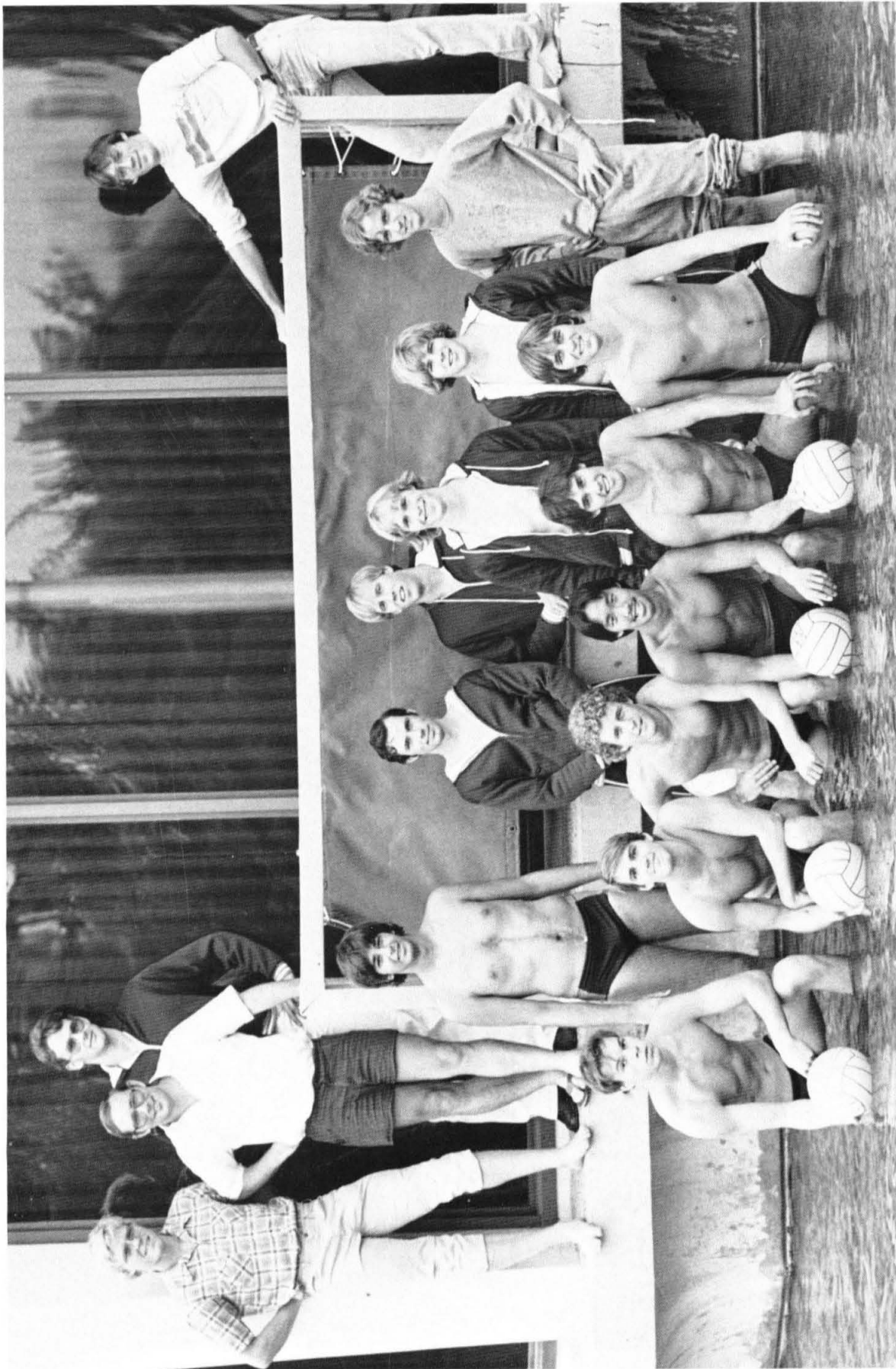
19 20 21 22 23 24

Thanksgiving

25 26 27 28 29 30

-91i Caltech Water Polo Team

Record: Won 9, Lost 14, Standing: none. SCIAC Honors: Chris McKinnon, Reed Burkhart, Bill Polson.



Top Row (left to right): Chris McKinnon, Coach Clint Dodd, Bjorn Matthias, Dave Watkins.

Middle Row: Fred Ferrante, Bob Golden, Reed Burkhart, Dave Huff, Hans Hermans, Brian Suggs.

Kneeling: Tory Lawton, Bill Polson, Jim Labrenz, Steve Chin, Greg Schenter, Steve Loyola.

Not Pictured: Stan Berman, Ron Franz, Eric Grannan, Paul Graven, Alan Murray, Stuart Ray, Paul Shaffer, Brent Stuart, Myles Sussman.

Henry

atto exa giga nano pico tera

1 2 3 4 5 6

7 8 9 10 11 12

13 14 15 16 17 18

19 20 21 22 23 24

25 26 27 28 29 30

Christmas

-91i Caltech Tour Guides Team



Top Row (left to right): Lawrence Anthony, Mark Lindsay, Mark Marley, Marc Buffet, Dave Sahnou.

Bottom Row: Stan Kuo, Karla Peterson, George Pitt, Head Guide Russell Almond.

Q

atto giga nano pico tera

1 2 3 4 5

Rose Bowl Day

Q

atto exa giga nano pico tera

1 2 3 4 5 6

Rose Bowl Day

-91i Caltech Cross-Country Team

Record: Won 4, Lost 6, Standing: fifth. NAIA Honors: Karen Close.



Back Row (left to right): Joy Watanabe, Jennifer Haase, Karen Close, Marit Jentoft-Nilsen, Coach Leroy Neal.

Front Row: Mignon Belongie, Diane Creveling.

Not Pictured: Janice Pata, Betsy Arnold, Lisa Skrumeda.

Women

Record: Won 6, Lost 4, Standing: third. SCIAC Honors: Vince Cammarata, Karl Clausing.

Men



Back Row (left to right): Matt Penn, Robert Kelly, Steve Stahl, Karl Clausing, Nathan Inada, Coach Leroy Neal.

Front Row: Warren Goda, Terry Barr, Vince Cammarata, Robert Dow.

Not Pictured: Elton Inada, Steve Molnar, Han Toh.

Hertz

atto exa giga nano pico tera

1 2 3 4 5 6

7 8 9 10 11 12

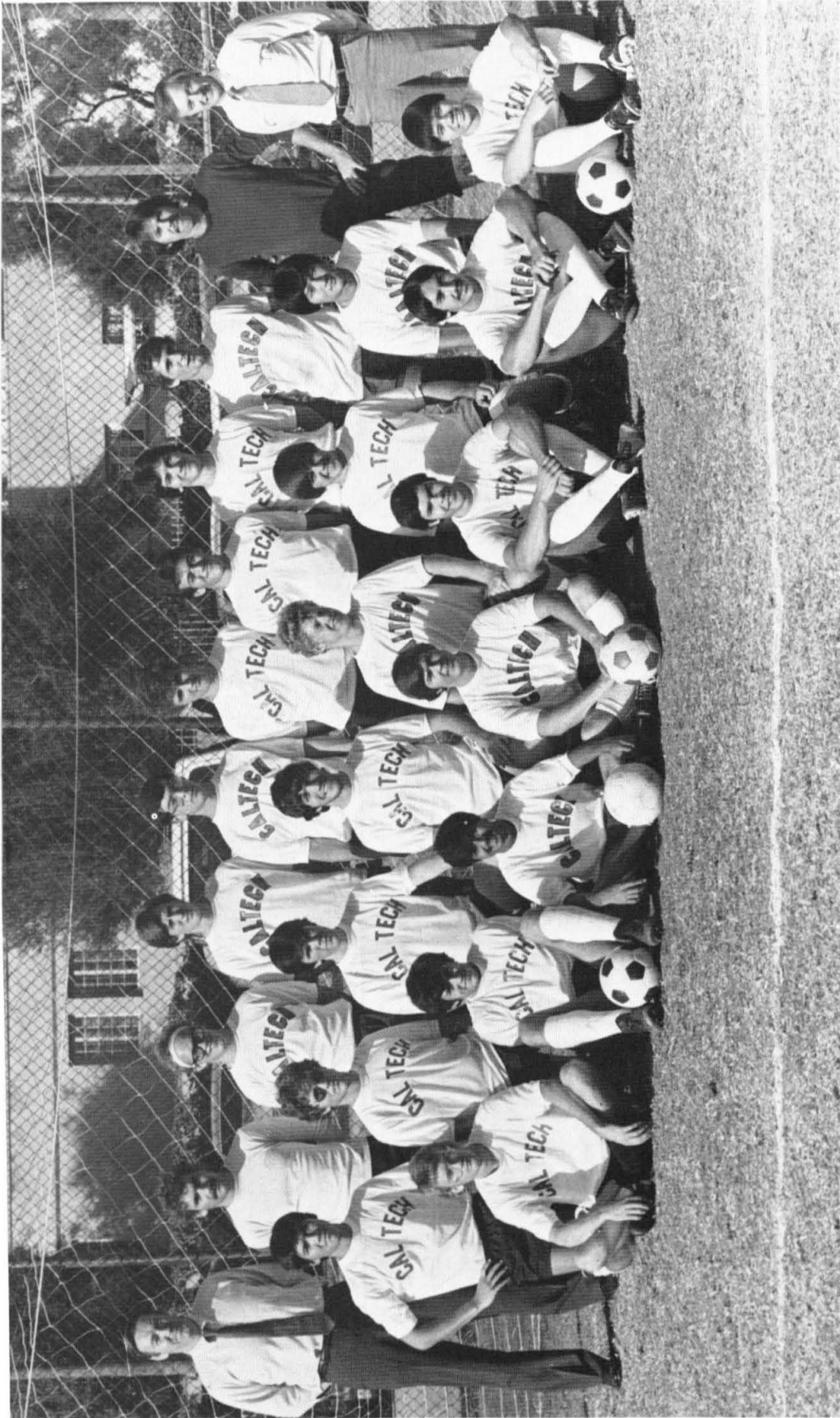
13 14 15 16 17 18

19 20 21 22 23 24

25 26 27 28 29 30

-91i Caltech Men's Soccer Team

Record: Won 4, Lost 9, Tied 3, Standing: last. SCIAC Honors: Peter Orr.



Standing (left to right): Coach Cameron, Gerald Zeininger, Steve Havstad, Ed Felten, Ned Wingreen, Robert Franciosi, Kaveh Taleghani, Nick Gross, Mike Hisey, Doug Shors, Coach McCallan.

Kneeling: Tze Kin Ip, Mark Stefanich, Steve Jones, Scott Karlin, Stefan Feuerabendt, John Krehbiel, Young Lee.

Sitting: Peter Orr, Manuel Acevedo, Anrivian Ghosh, Greg Haussmann, Luis Monsalve, Bob Mostert, Russell Quong.

Newton

atto exa giga nano pico tera

1 2 3 4 5 6

7 8 9 10 11 12

*Abe Lincoln's
Birthday*

13 14 15 16 17 18

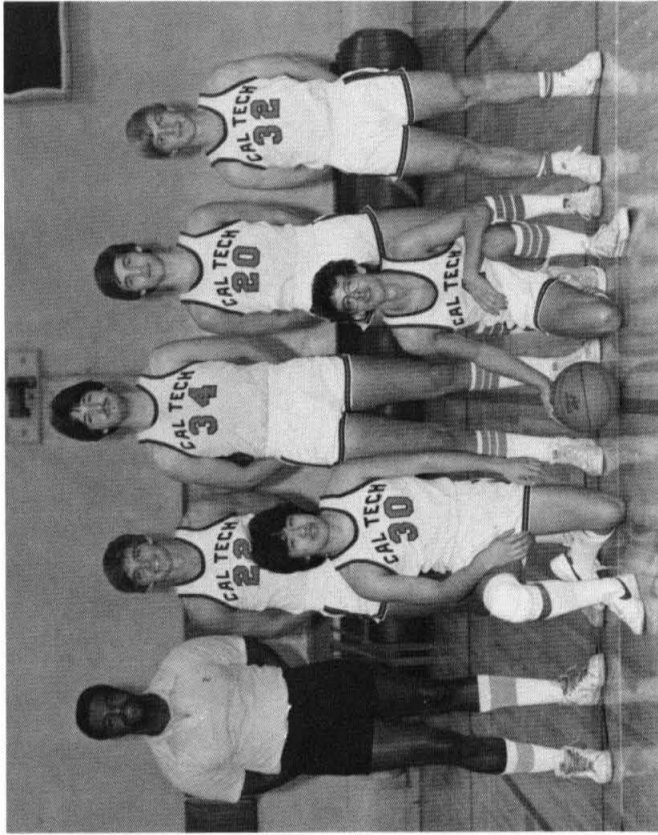
19 20 21 22 23 24

25 26 27 28 29 30

31 32 33 34 35 36

-91i Caltech Basketball Team

Record: Won 1, Lost 22, Standing: last. NAIA Honors: Stewart Peebles.



Front Row (left to right): Wen Teh Chang, George Pitt.

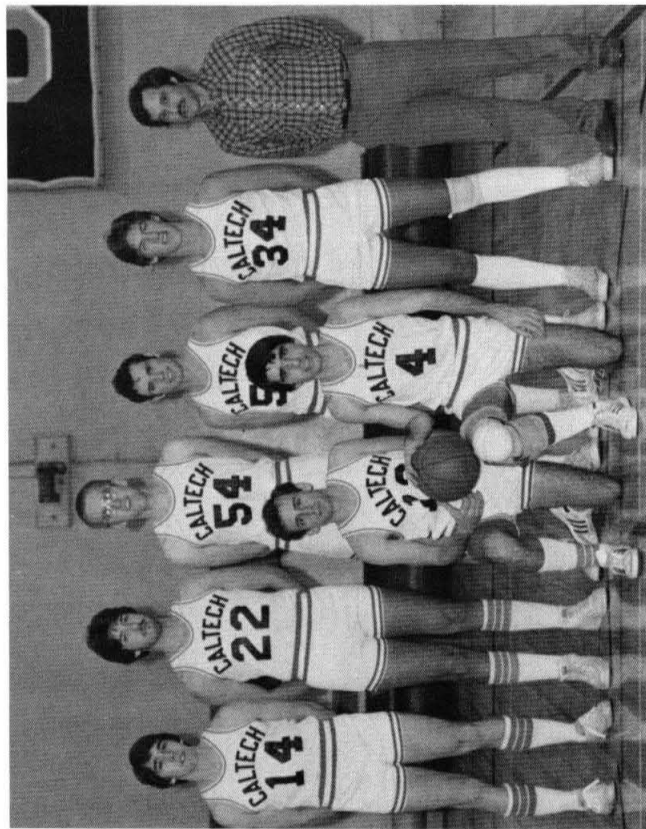
Back Row: Asst. Coach James Boone, John Krehbiel, David Wernitz, Kent Noble, Terrence Barr.

Not Pictured: Drew Lindberg, Se Jung Shin, Rodney Van Meter.

Varsity

Record: Won 0, Lost 14, Standing: none.

Junior Varsity



Front Row (left to right): Kevin Hughes, Chris Kyriakakis.

Back Row: Chris Cotterel, David Wernitz, Stewart Peebles, Bob Golden, Jim Helgren, Head Coach Mike Poizner.

Not Pictured: Doug Evans, Tom Heer, Anthony Capowski, Jeff Lester, Stuart Ray.

Pascal

atto exa giga nano pico tera

1 2 3 4 5 6

7 8 9 10 11 12

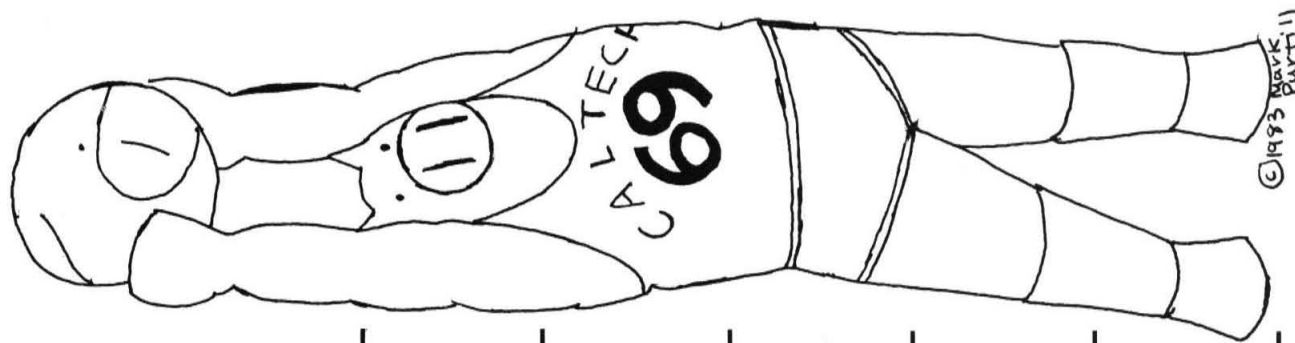
13 14 15 16 17 18

19 20 21 22 23 24

25 26 27 28 29 30

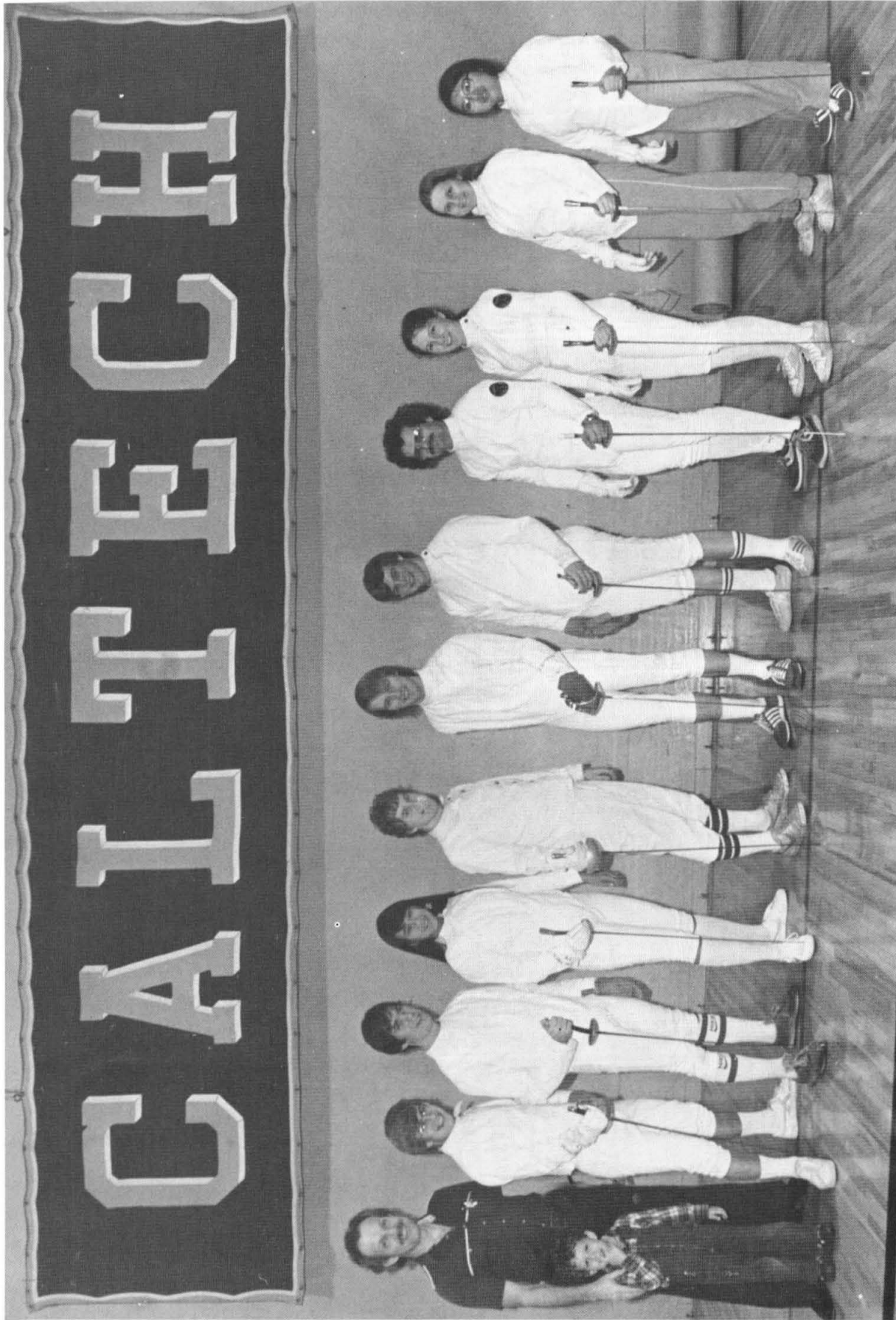
Easter

31 32 33 34 35 36



-91i Caltech Fencing Team

Record: Foil 6-3, Sabre 2-7, Epee 0-9, Women's foil 1-8, Standing: none.



Left to Right: George Clovis & Michael Clovis, Peter Konopka, Maclen Marvit, Phyllis Li, Kenneth Bell, Lee Sunderlin, Scott Grossman, Leif Bennett, Kathleen Sheedy, Karla Peterson, Amy Yoshida.

Not Pictured (left to right): Kurt Anderson, James Bell, Daniel Briggs, Chien-Wei Han, Kenneth Hooper, John Quackenbush, Diana Foss, Barbara Turpin.

Joule

atto exa giga nano pico tera

1 2 3 4 5 6

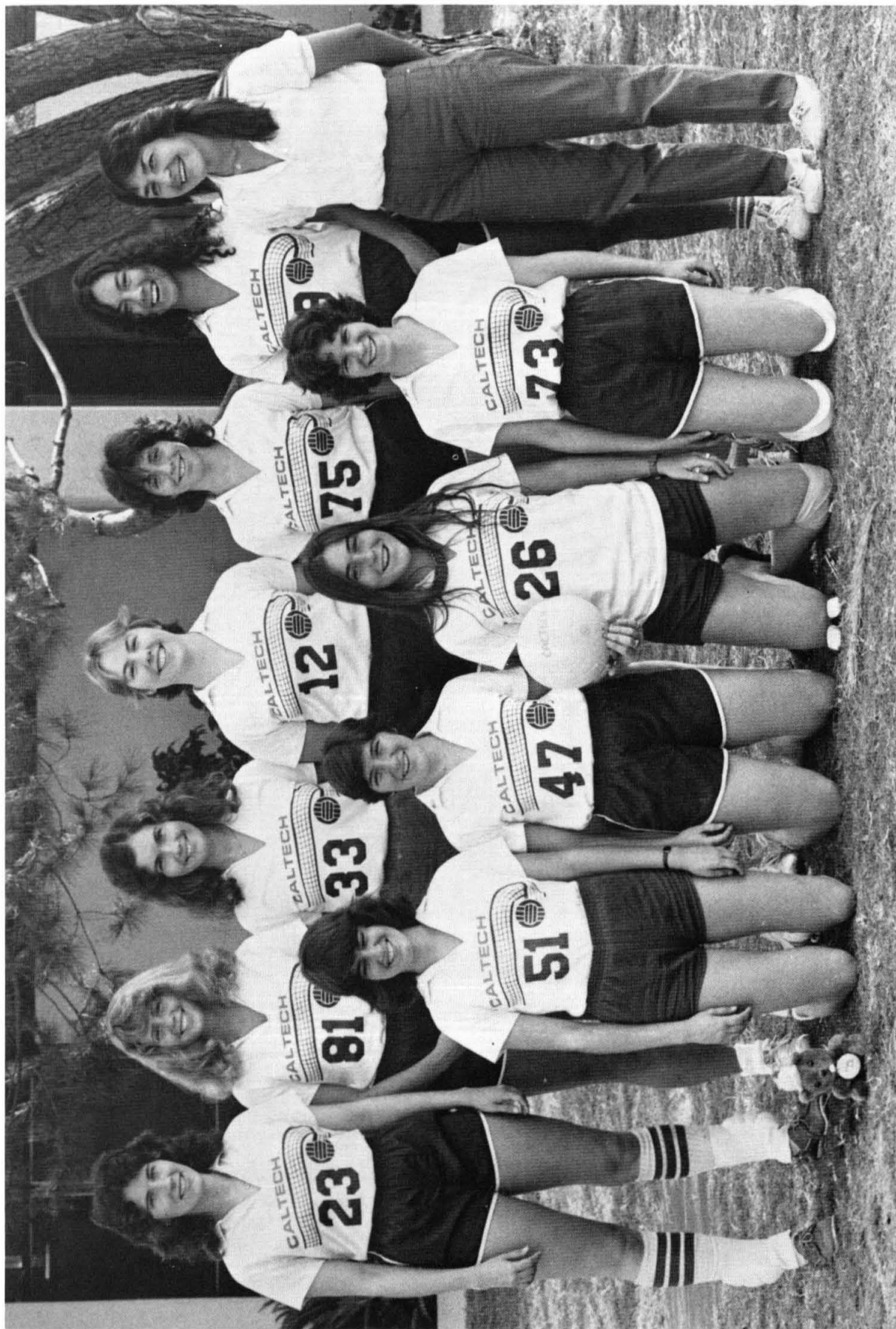
7 8 9 10 11 12

13 14 15 16 17 18

19 20 21 22 23 24

25 26 27 28 29 30

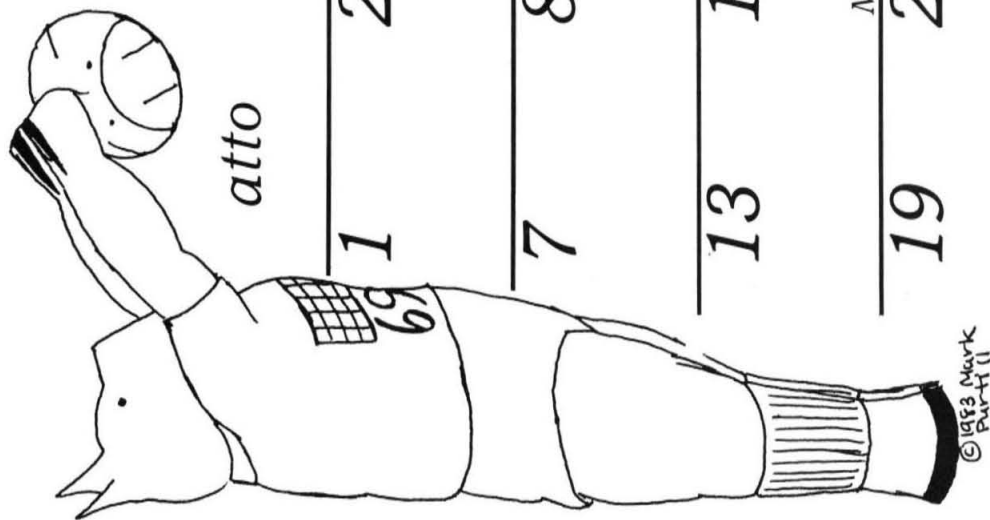
-91i Caltech Women's Volleyball Team



Top Row (left to right): Ann Rosenthal, Lucy France, Lynn Hildemann, Chris Tiller, Cathy Shapiro, Sandra Loh, Coach Yela Luzar.

Bottom Row: Lynnmarie Thompson, Julie Kornfield, Leslie Lippard, Eliza Sutton.

Watt



atto exa giga nano pico tera

1 2 3 4 5 6

7 8 9 10 11 12

13 14 15 16 17 18

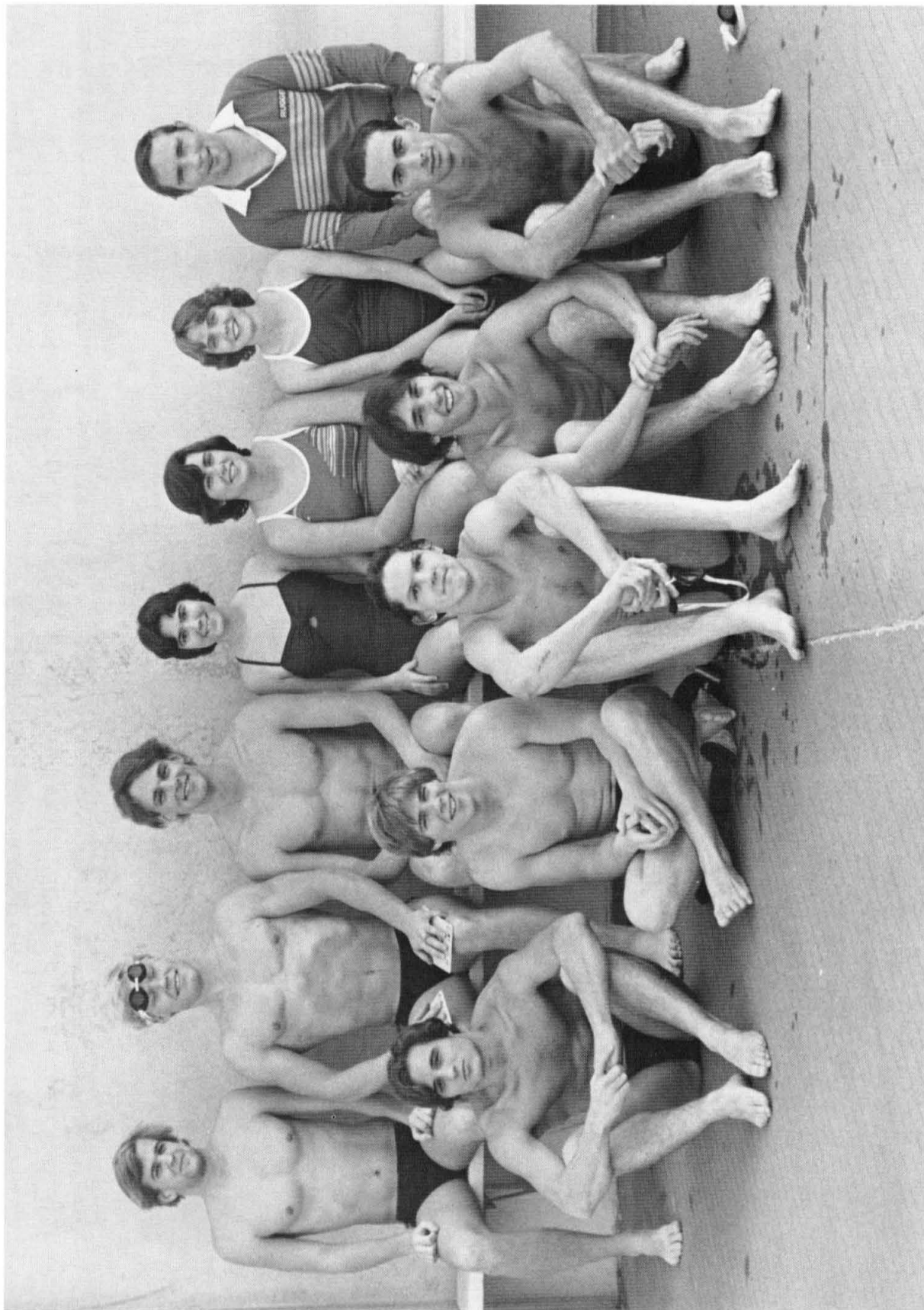
Memorial Day

19 20 21 22 23 24

Commencement

-91i Caltech Swimming Team

Record: Won 0, Lost 8, Standing: none.



Top Row (left to right): Brent Stuart, Chris McKinnon, Bjorn Matthias, Jeanine Gainey, Lynne Adler, Sue Rosik, Head Coach Clint Dodd.

Bottom Row: Alan Murray, Hans Hermans, Charles Todd, Greg Schenter, Scott Michaels.

Coulomb

atto exa giga nano pico tera

1 2 3 4 5 6

7 8 9 10 11 12

13 14 15 16 17 18

19 20 21 22 23 24

25 26 27 28 29 30

Independence Day

31 32 33 34 35 36

37 38 39 40 41 42

-91i Caltech Golf Team

Record: Won 0, Lost 14, Standing: last.



Standing (left to right): Coach Hal Cassriel, Tom Remmers, Ken Seibert, Jim Cser.

Kneeling: Mark Pitt, Paul Johnson, Jim Scooby.

-91i Caltech Tennis Team



Top Row (left to right): Margaret Carter, Lisa Cummings, Joy Watanabe, Tammy Choy.

Middle Row: Coach Mike Jackson, Jon Parker, Ron Francis, Harry Mousmoles, Ryoji Watanabe, Rajiv Sahney.

Kneeling: Yosufi Tybkhan, Sanjay Agrawal, Ned Wingreen, Hidecki Garren, Ashok Krishnamoorthy, Roy Hashimoto.

Not pictured: Lucy France, Gene Pottenger, Cathy Shapiro.

Volt

atto exa giga nano pico tera

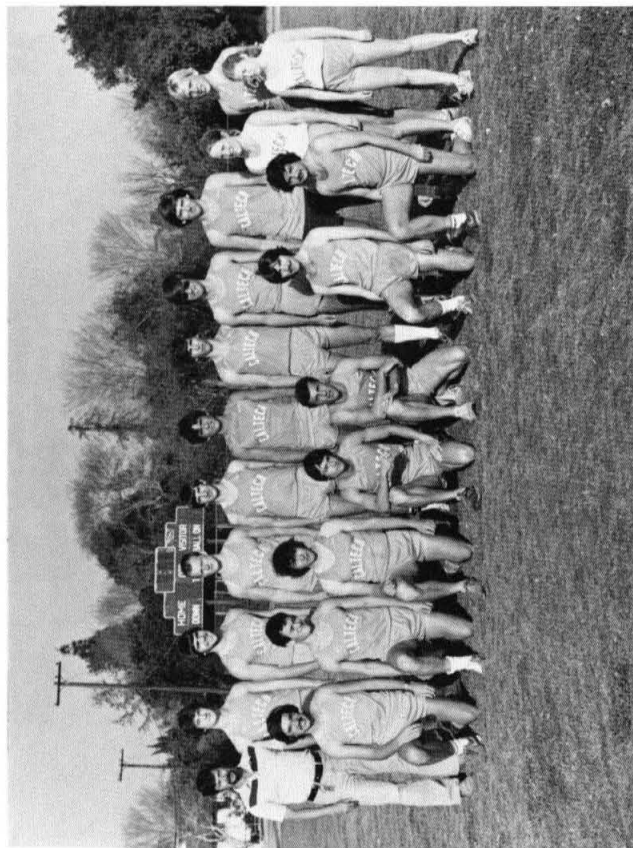
1 2 3 4 5 6

7 8 9 10 11 12

13 14 15 16 17 18

19 20 21 22 23 24

-91i Caltech Track Team

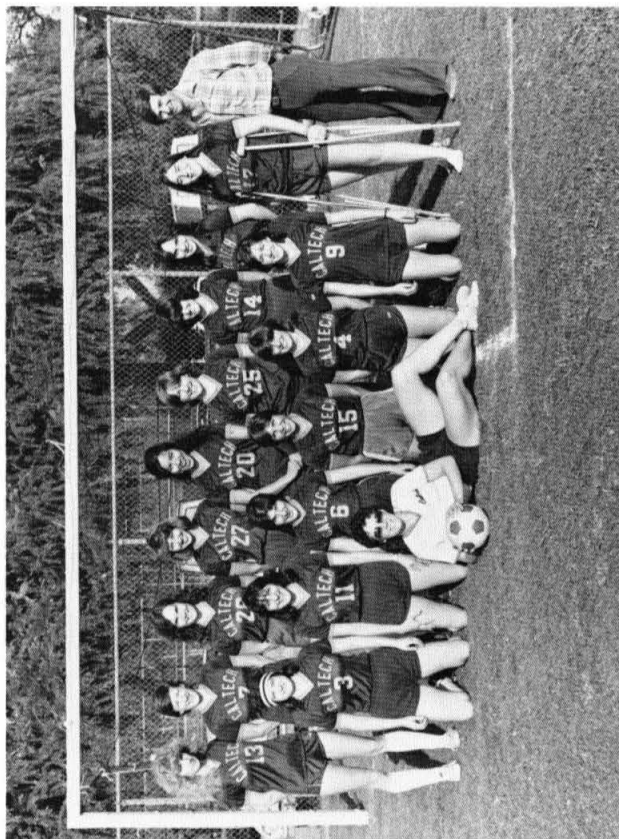


Top Row (left to right): Coach Leroy Neal, Brian Burk, David Gallup, Mark Holst, Brian McLain, David Chavez, Tim Magee, Steve Baxter, Steve Knowles, Karen Close, Karl Clausing, Diane Creveling.

Bottom Row: Matt Penn, Kaveh Taleghani, Robert Dow, Steve Stahl, Scott Bloom, Robert Kelly, Vince Cammarata.

-91i Caltech Women's Soccer Team

Record: Won 2, Lost 8, Tied 1.



Top Row (left to right): Susan Hunt, Julia Lester, Lynn Hildemann, Wendy Rasmussen, Sandra Loh, Chris Tiller, Lynmarie Thompson, Cinsy McCalley, Leslie Lippard, Coach Larry Tatone.

Bottom Row: Mira Todorovich, Elizabeth Newman, Julie Kornfield, Nancy Krehbiel, Pam DeMoor, Jennifer Haase.

Couched: Ann Rosenthal.

Not pictured: Alison Blake, Connie Senior.

Farad

atto exa giga nano pico tera

1 2 3 4 5 6

7 8 9 10 11 12

13 14 15 16 17 18

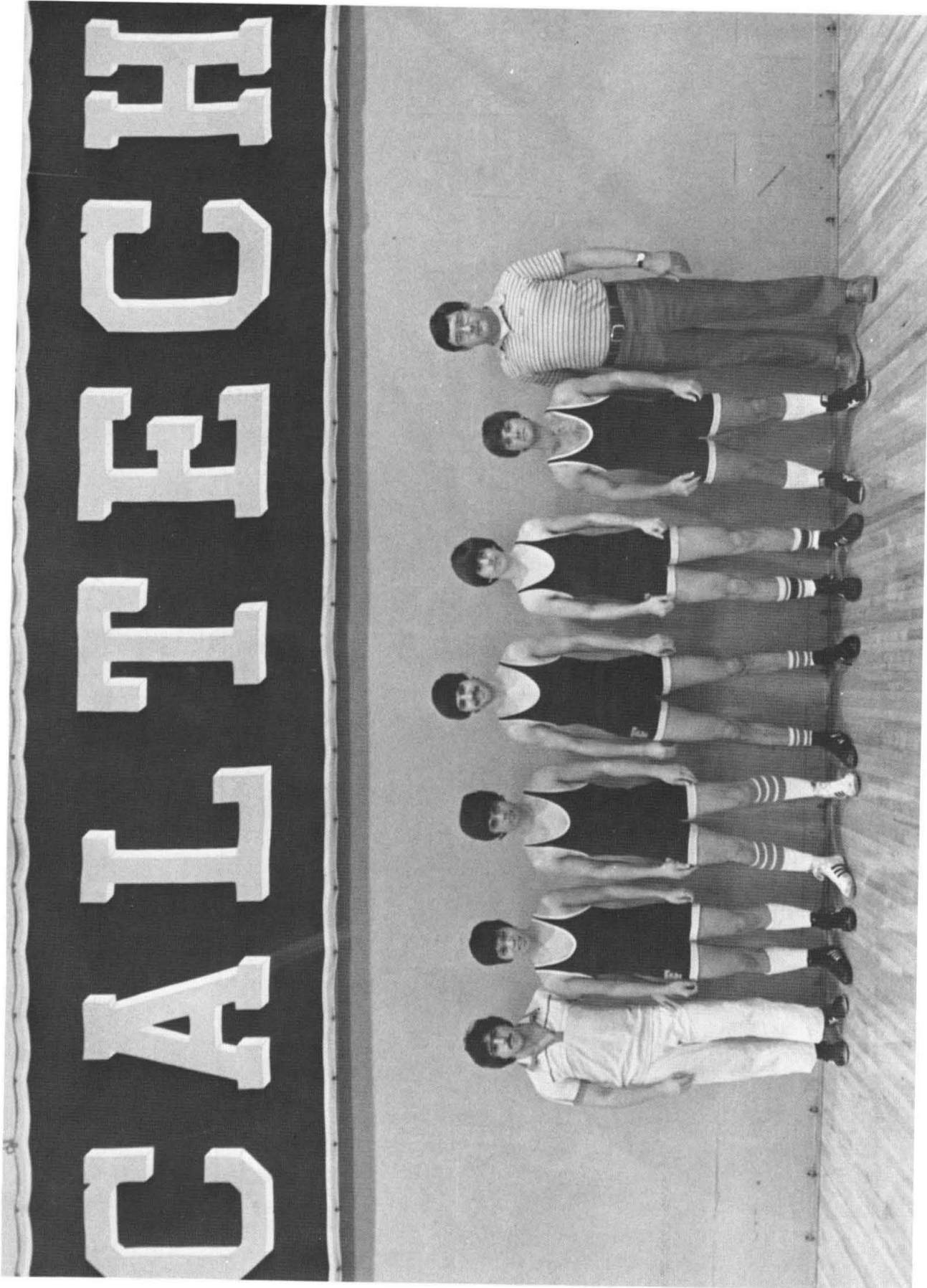
19 20 21 22 23 24

25 26 27 28 29 30

Labor Day

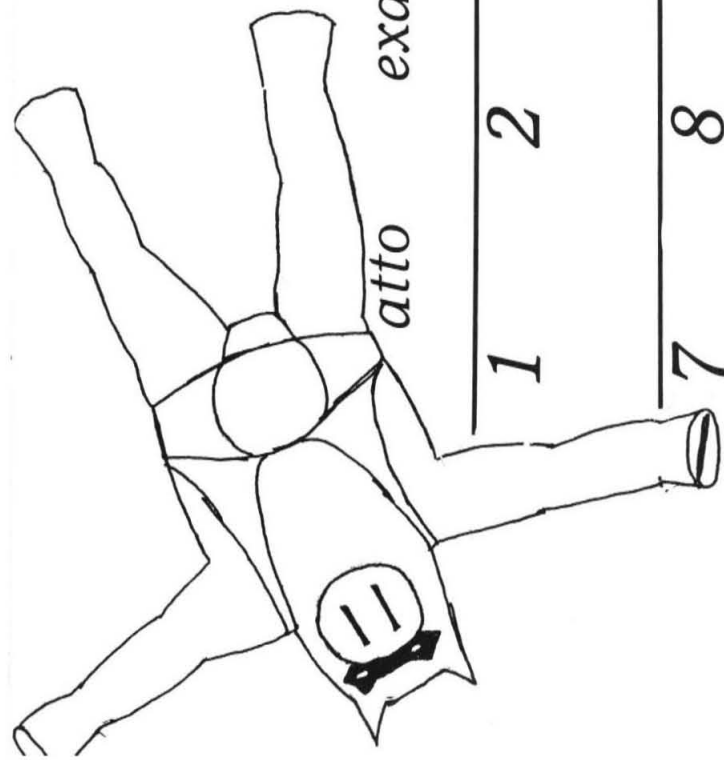
-91i Caltech Wrestling Team

Record: Won 2, Lost 13, Standing: fifth place. SCIAC Honors: Brian Lau.



Left to right: Bob Shoemaker, Brian Lau, Mike Ammon, Louis Aronson, Matt Compton, Paul Filmer, Head Coach Lin Parker.

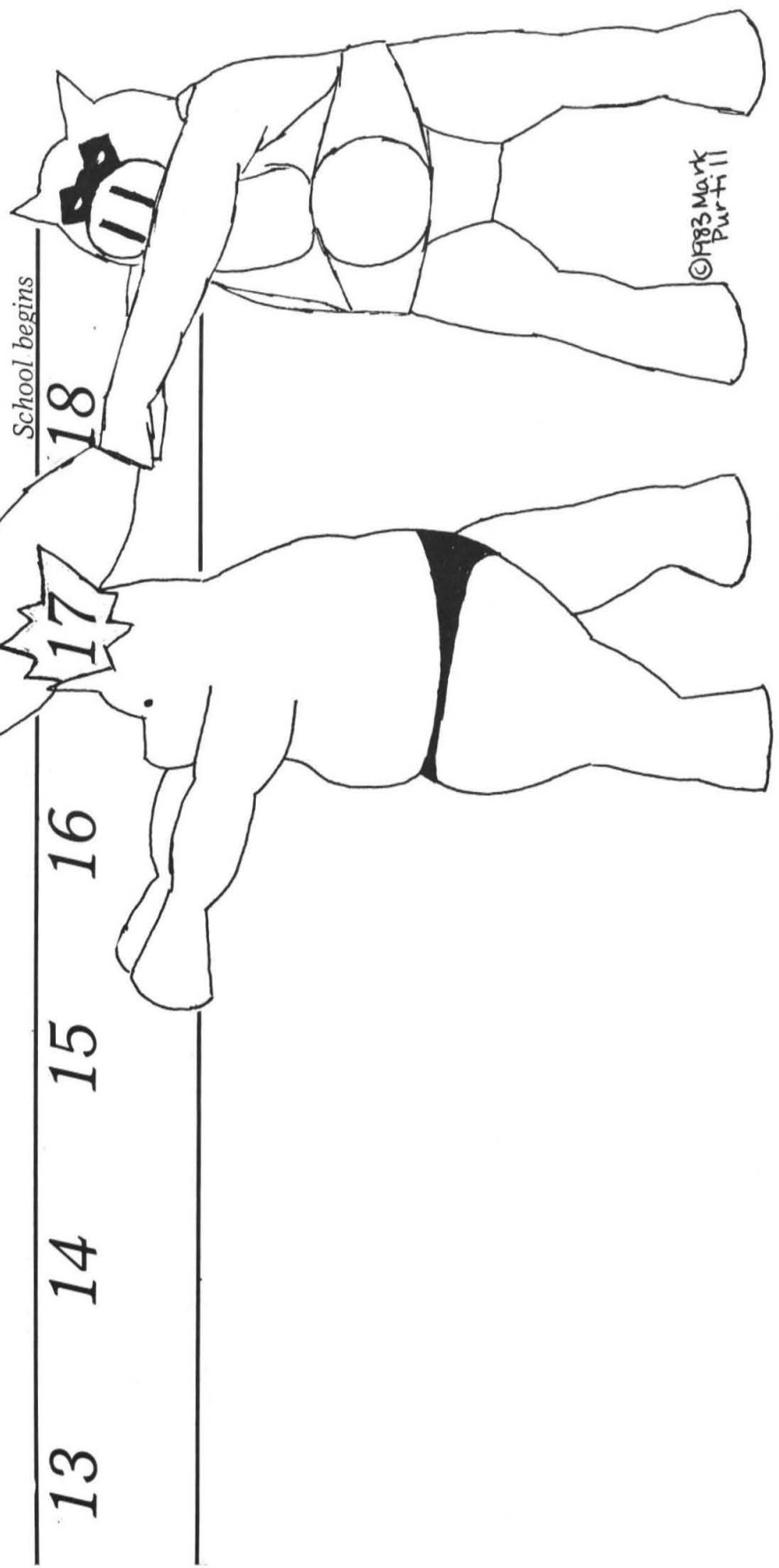
Mho



atto exa giga nano pico tera

1 2 3 4 5 6

7 8 9 10 11 12

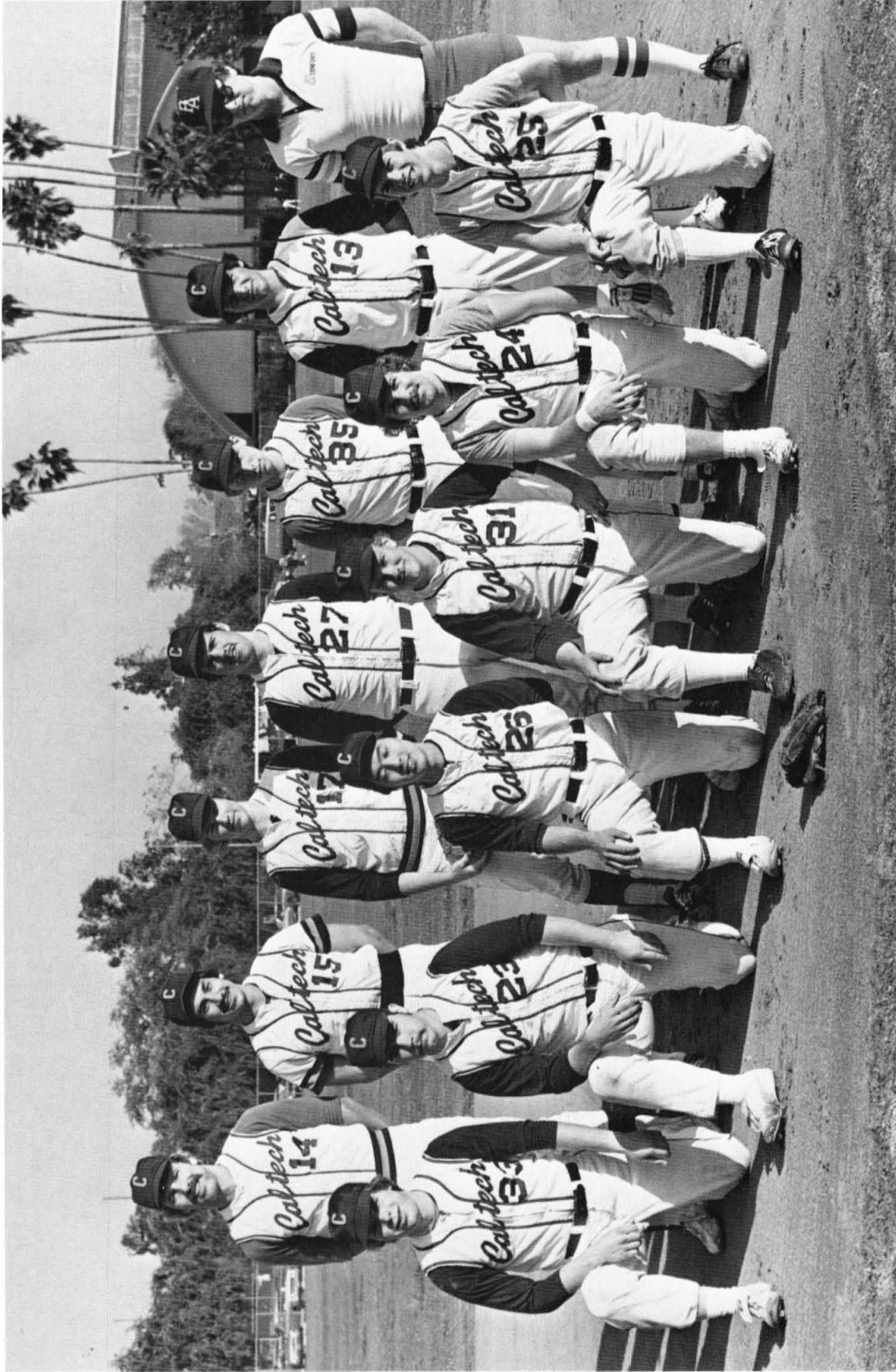


13 14 15 16 17 18

School begins

©1983 Mark Purty II

-91i Caltech Baseball Team



Top Row (left to right): Coach John D'Auria, Robert Mostert, Phil Scott, Jim Hamrick, Ed Casey, Armand Capote, Head Coach Scott Laurence.

Bottom Row: Chris Burak, Pat Harrison, Alan Marumoto, Steve Havstad, Kurt Lemke, Brandon Mymudes.

Not pictured: Alan Daughton, Martin Hunt, Jon Quilliam, Marc Schuyler, Doug Shors.

Weber

atto exa giga nano pico tera

1 2 3 4 5 6

7 8 9 10 11 12

Columbus Day

13 14 15 16 17 18

19 20 21 22 23 24

25 26 27 28 29 30

Halloween

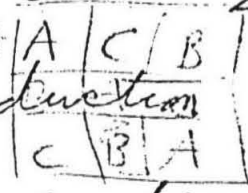
$\neg(A \wedge \neg(A \rightarrow B)) \rightarrow B$

$\varphi_1 \varphi_2 \dots \varphi_n$

Soundness Theorem:



$\Sigma \vdash \varphi$ then $\Sigma \models \varphi$.



an induction argument on

the min length of a proof of φ

DEAR SIR: I WISH TO COMPLAIN ON THE STRONGEST POSSIBLE TERMS ABOUT THE PORTRAYAL OF DINKING TOAST IN YOUR NOTES. MANY OF MY BEST FRIENDS ARE TOAST, AND ONLY A FEW OF THEM DINK. SINCERELY YOURS, CAPT. LIGHTLY SINGED

Gödel Completeness Theorem

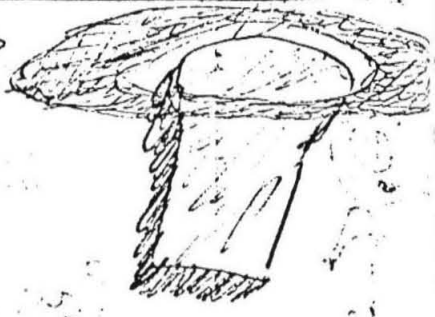
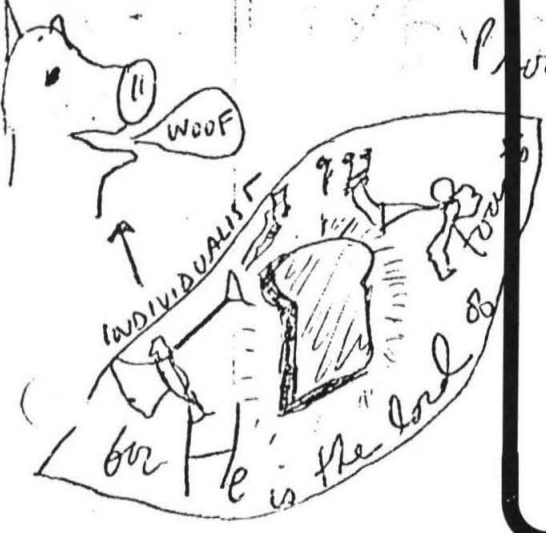
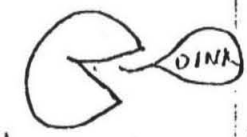
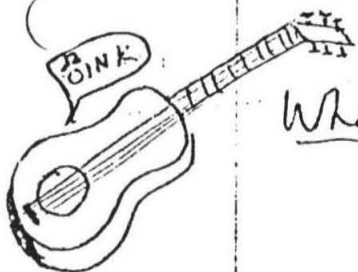
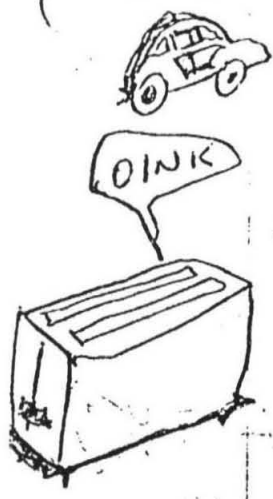
If $\Sigma \models \varphi$, then $\Sigma \vdash \varphi$

What is provability?

Prop 1: Generalization Thm. If $\Sigma \vdash \varphi$ and x_i is not free in Σ , then $\Sigma \vdash \forall x_i \varphi$

Prop 2: (Deduction Thm) $\Sigma, \varphi \vdash \psi \iff \Sigma \vdash \varphi \rightarrow \psi$

CLUBS and ORGANIZATIONS



Definability in a Structure

We say that $R \subseteq A^n$ is first-order definable if

$\exists \varphi(x_1, \dots, x_n)$ s.t. for $a_1, \dots, a_n \in A$

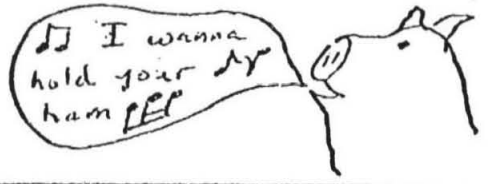
$R(a_1, \dots, a_n) \Leftrightarrow A \models \varphi[a_1, \dots, a_n]$

taken
lecture
notes

ART MAIL

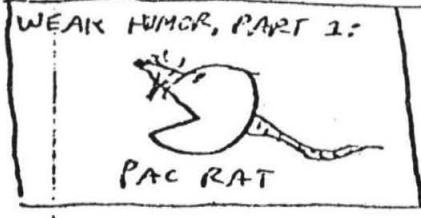


CENTRAL PORK



LOGICAL IMPLICATION: \vdash logically implies σ means for any structure \mathcal{A} in a given language L

$\mathcal{A} \models \sigma \Rightarrow \mathcal{A} \models \sigma$



TOAST OF THE TOWN

CONTAINS HIT SINGLE "HAM ON TOAST WITH MAYO, LETTUCE, SWISS CHEESE AND ONIONS"

You tell me that you've got everything you want, and your pigcat's toast!

NOW AVAILABLE ON TOASTMASTER RECORDS AND TAPES

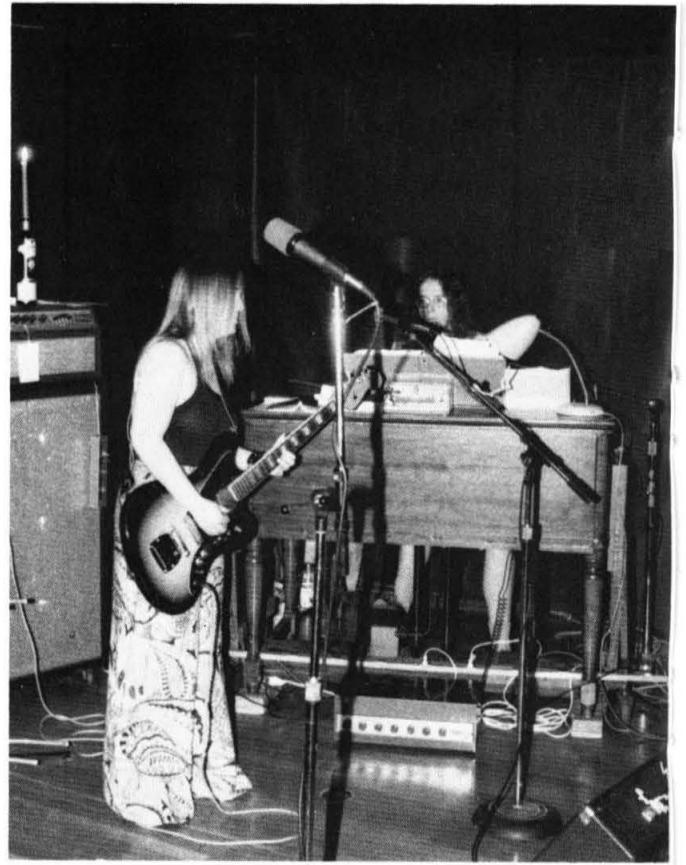
TOAST 116



POP UP! POP UP FOR THE MYSTERY TOAST!
POP UP! IT'S AN INVITATION
POP UP! FOR A CELEBRATION

THE MAGICAL MYSTERY TOAST IS DYING TO TAKE YOU AWAY... DYING TO TAKE YOU AWAY, TAKE YOU TODAY.

Caltech Jam Room





Guitar: A.J. Capowski, Mario Fajardo, Tracy Furutani, Jeff Lester, Bob "Bruno" Lewis, Jean Richter, Bruce Sams, John Schlarb, Dave Lee, Charles "Guitar George" Cuny.

Keyboards: Glyn Anderson, Dave Hayes, Gesine Lohr.

Percussion: Bill Farr, Harrison Leong, Mark Ross, Bill Banks, Barb Turpin, David "Cakes" Younge, Mike Rigler.

Bass: Russell Almond, Clark Brooks, Andy Duncan, Anne Herrmann, Joel Harris.

Saxophone: Ken Shrum, Bob "Blob" Bolender.

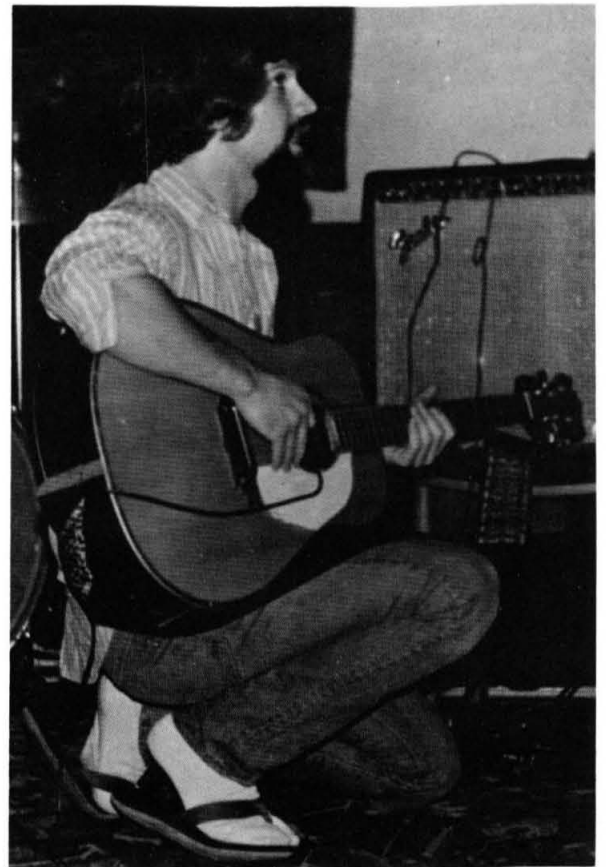
Vocals: Chris Finch.



Engineered by: Steve Quesnel, Bonnie Petheram.

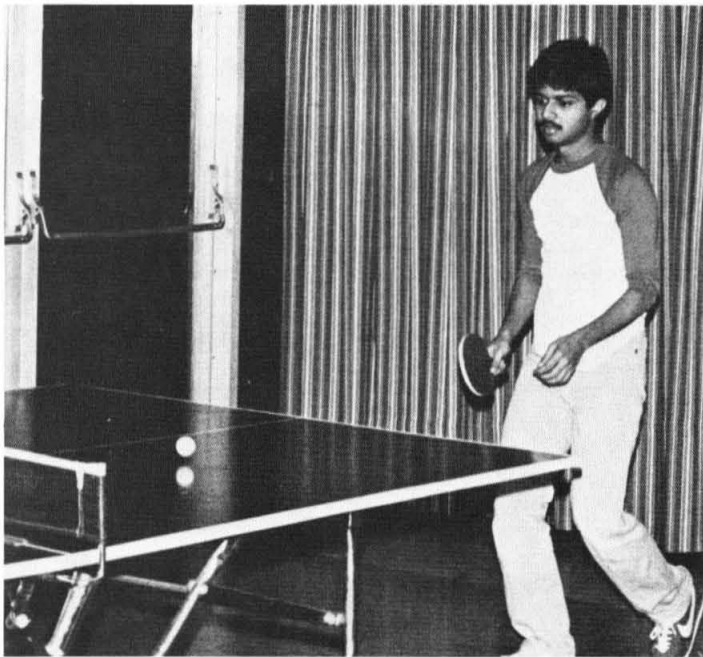
Photos: Russell "Can't pick a good font if it hit him in the face" Almond, Gail Manning.

Special Thanks: Russell Almond (O.S.E.), Jim Cummings, Mario Fajardo, Anne Herrmann (O.S.E.), Jeff Lester (A.O.S.E.), Gesine Lohr (sec.), Bruce Sams.





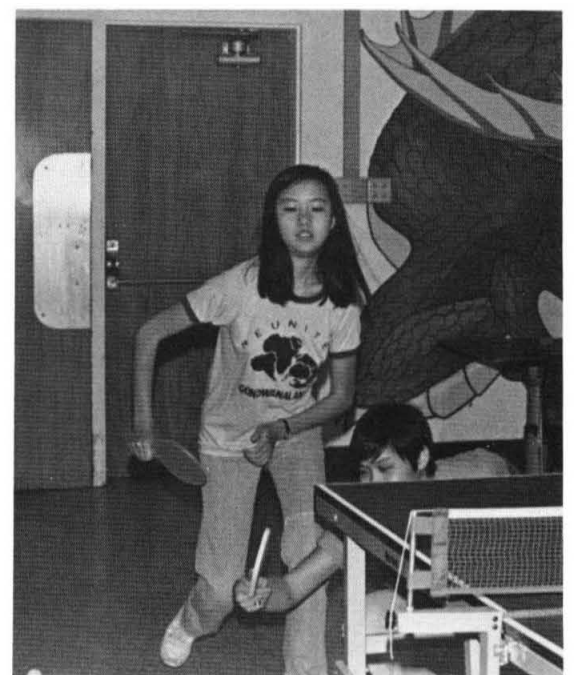
Caltech Table Tennis Club



Co-presidents: Asad Khan
 Brian Lau
Secretary: Anrivan Ghosh
Treasurer: Craig Zupke

Early in the year, Asad and Brian got elected co-presidents of this utterly popular, semi-active club. With a membership of about eighty students, it is one of the largest clubs on campus.

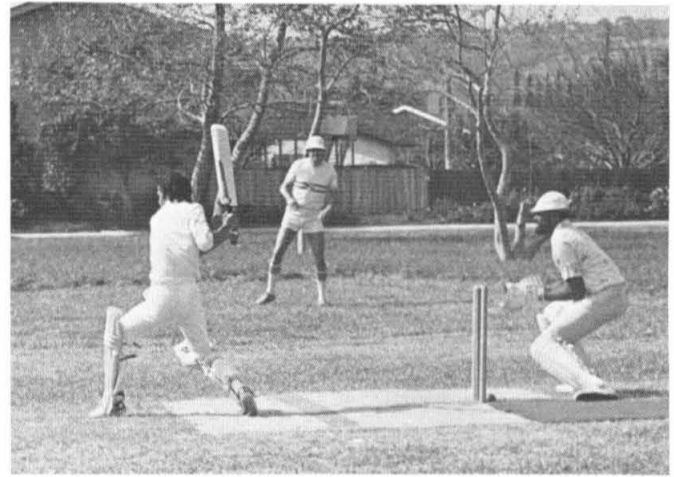
The shots here are taken from the marathon tournament against the Society of Professional Students (Caltech) which was played during third term.



Caltech Cricket Club

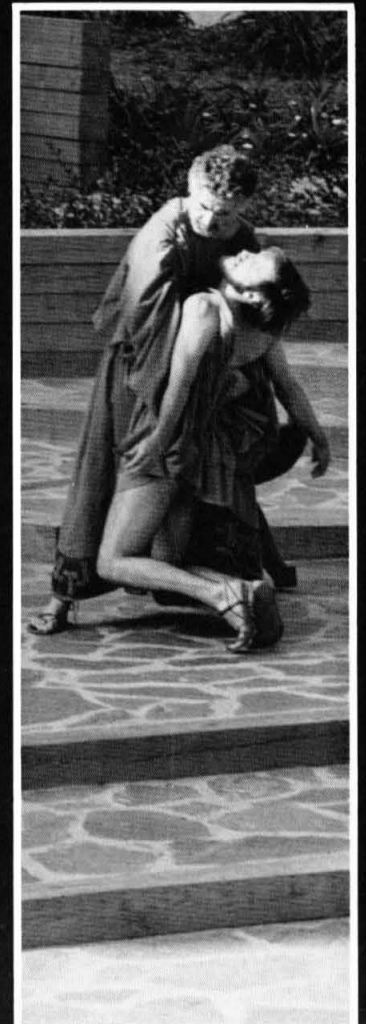
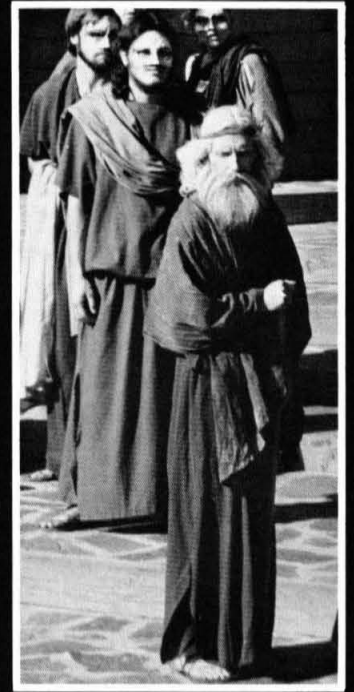
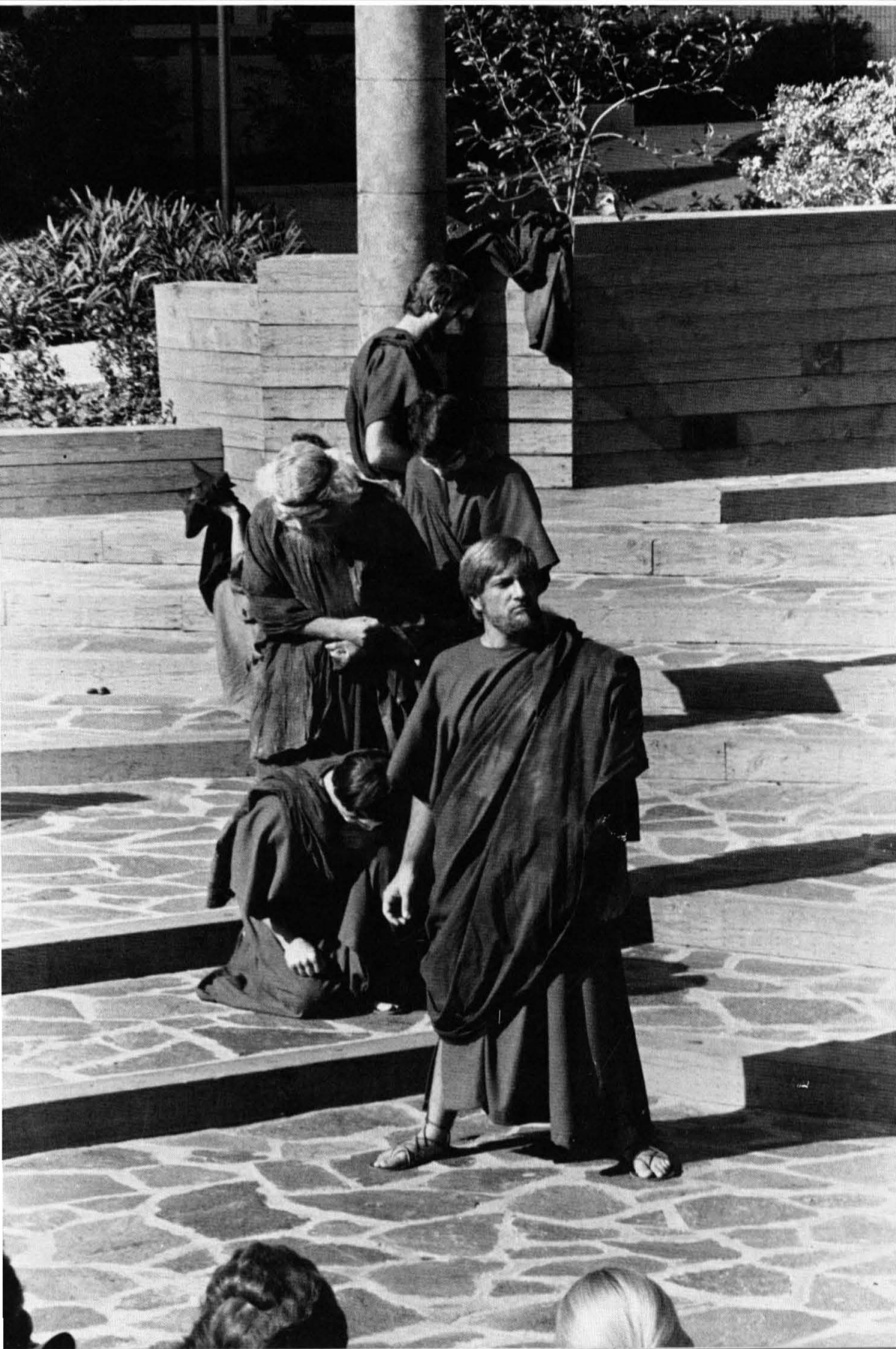
Co-presidents: Ian Anderson
Anrivan Ghosh

The club was revived and organized this year after a lapse of several years. After rigorous practice for weeks, the team went around winning frequently against local clubs. The glorious days when the Beavers went about beating the Bruins will be back soon!

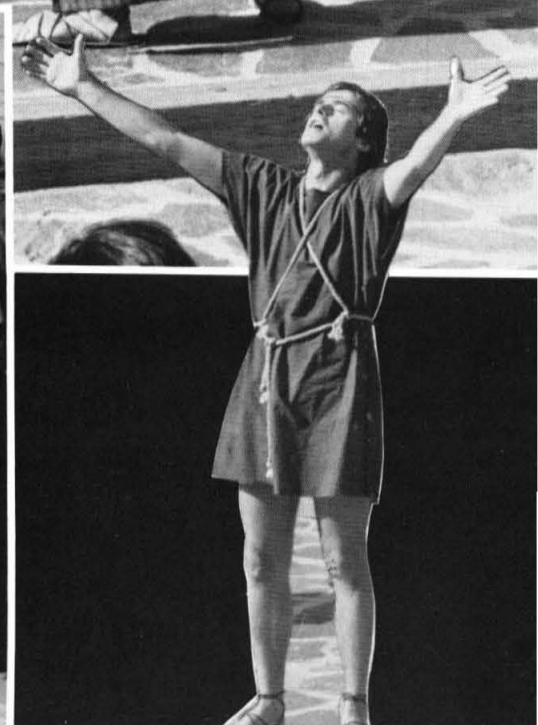
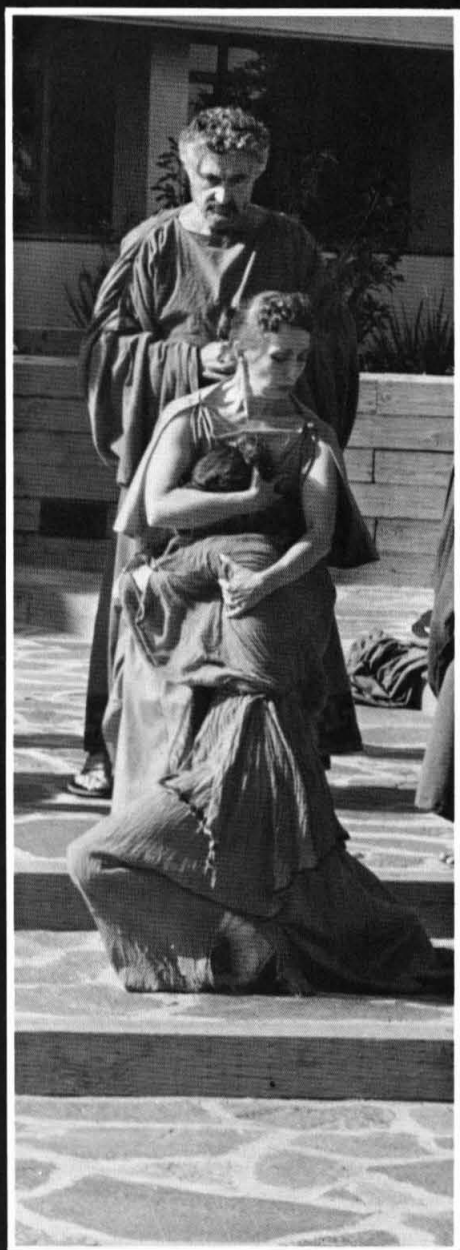


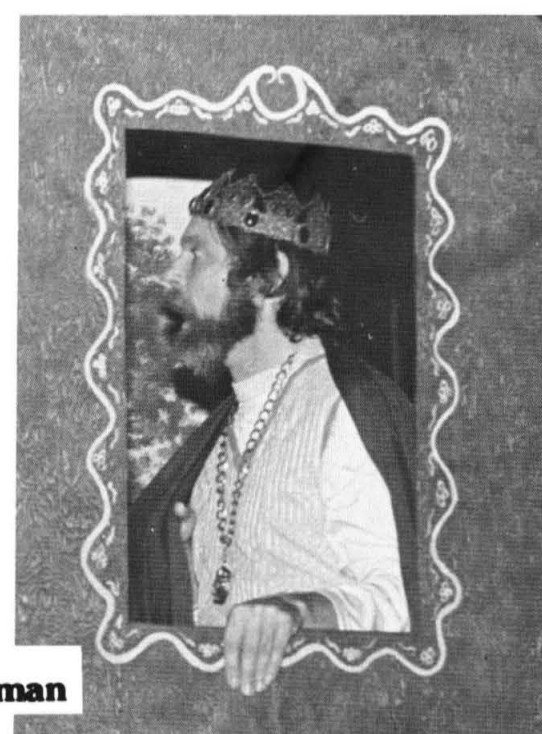
ANTIGONE

BY SOPHOCLES



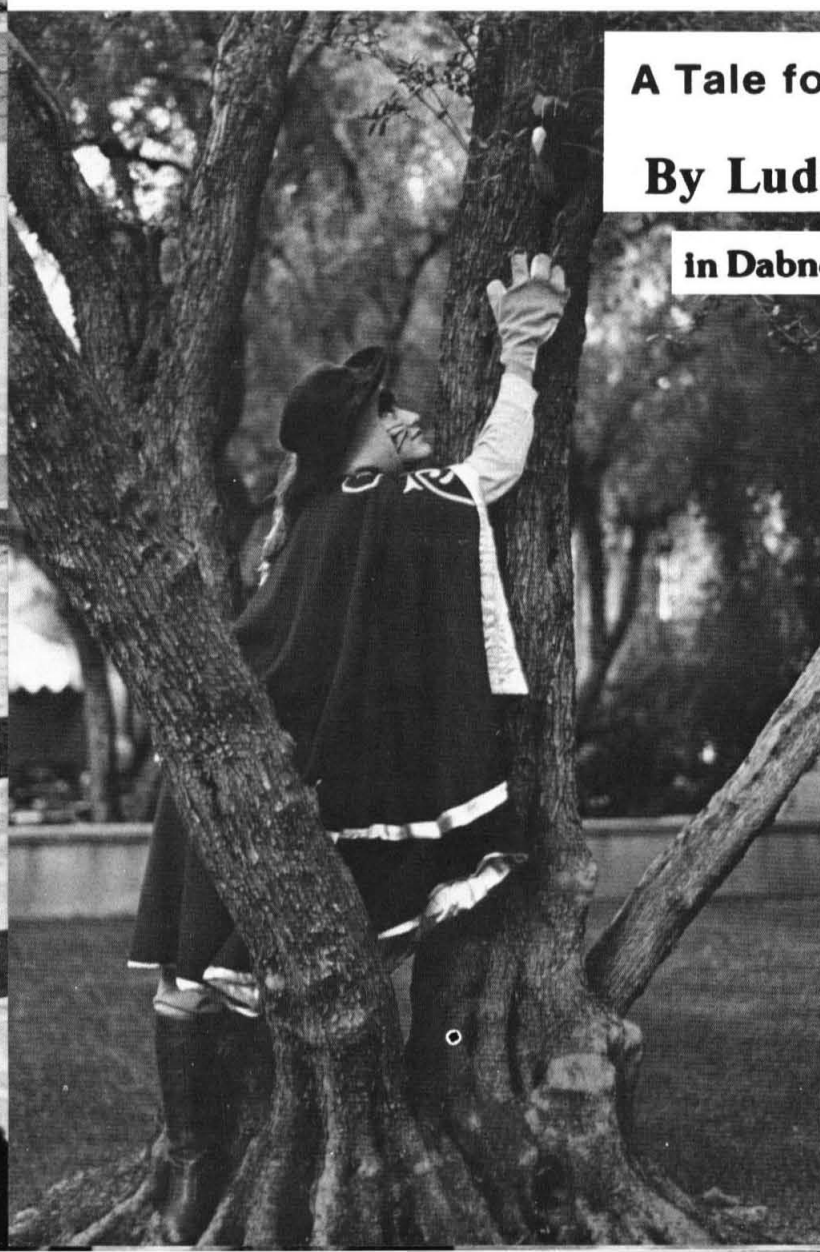
At 2PM, Saturday and Sunday, October 16th, 17th, 23rd and 24th.
At Braun Court, the outdoor forum on Caltech campus, east of Braun labs at San Pasqual and Wilson.





Performances in both English and German

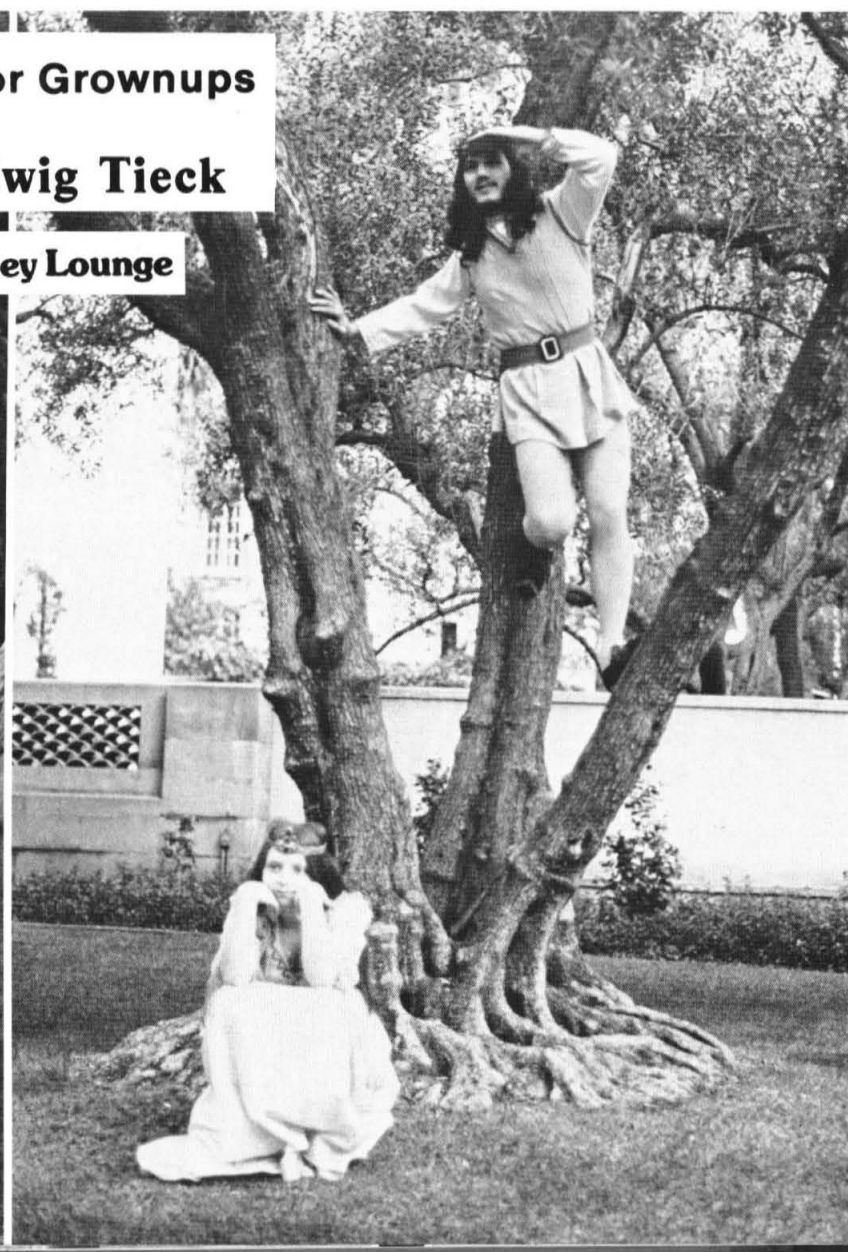
Der Gestiefelte Kater PUSS IN BOOTS



A Tale for Grownups

By Ludwig Tieck

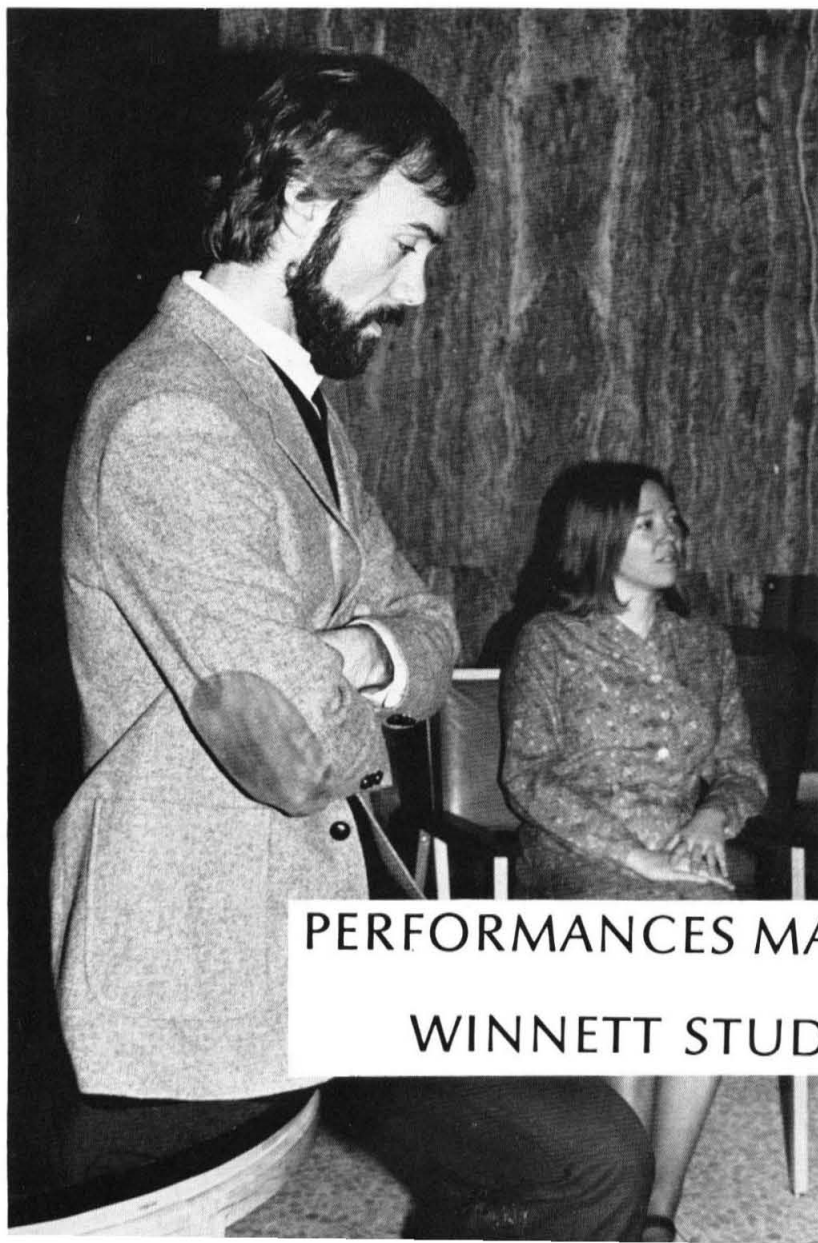
in Dabney Lounge



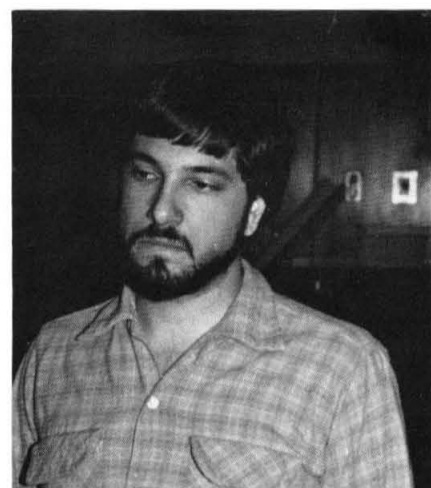
LANDSCAPE



TWO ONE – ACT PLAYS BY HAROLD PINTER



and **SILENCE**



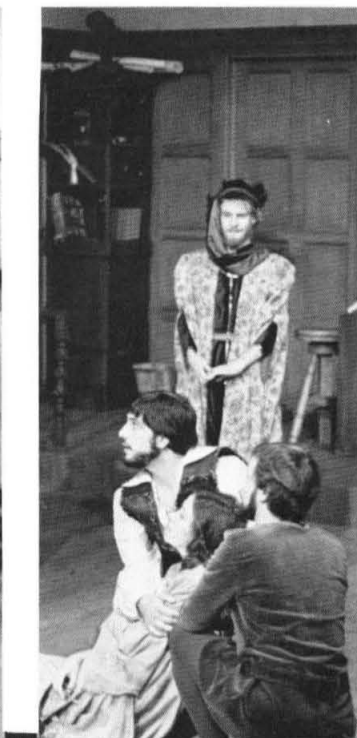
PERFORMANCES MARCH 3, 4, 5 and 6 at 8 P.M.

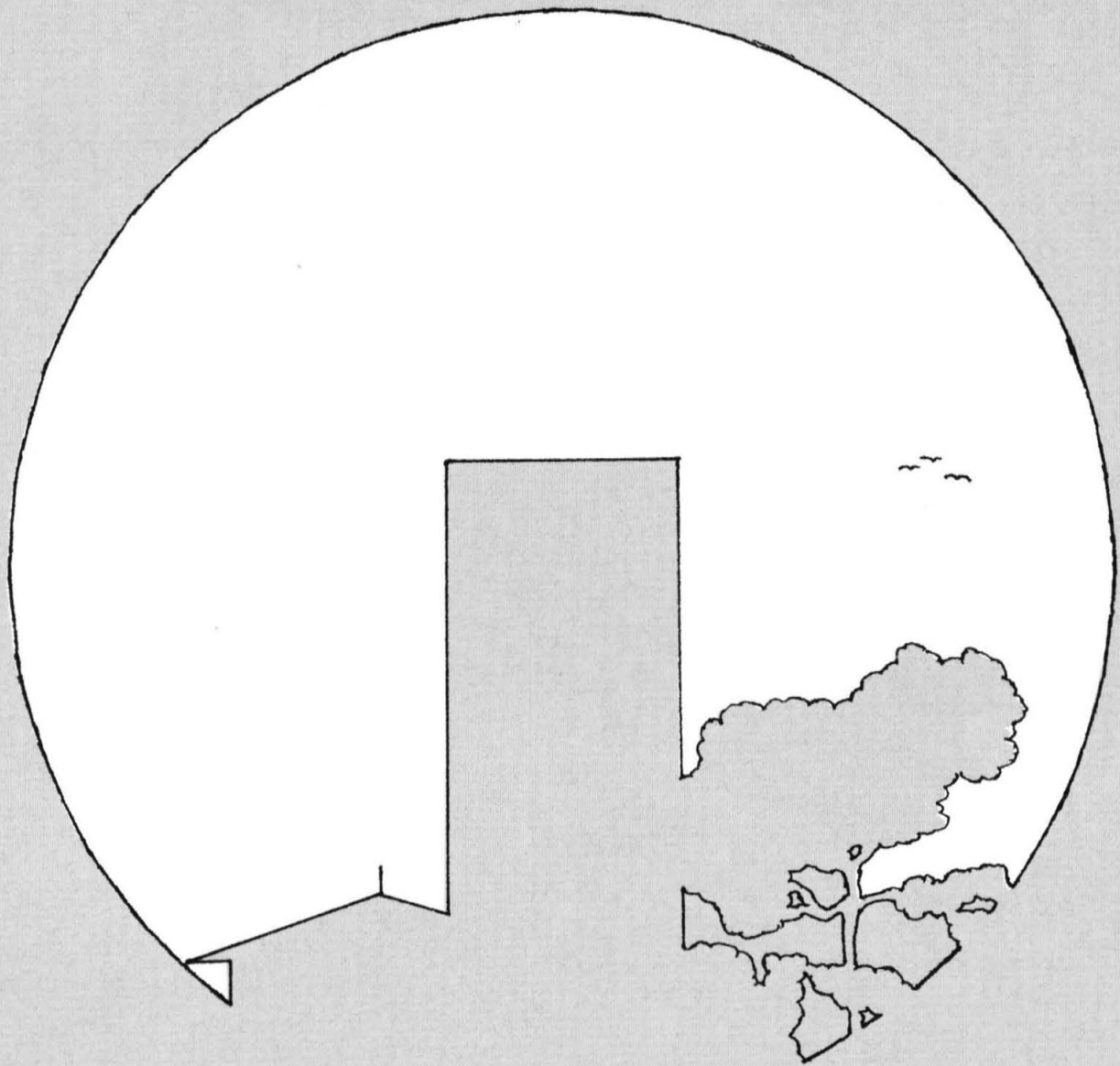
WINNETT STUDENT CENTER LOUNGE



The Caltech Players Present
THE LADY'S NOT FOR BURNING
By Christopher Fry
Dabney Lounge ... April 21, 22, 23 & 24, 1983



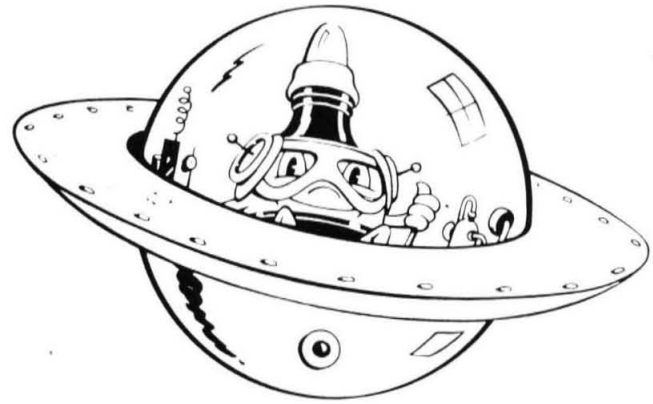




When You Need A Place
Away From Darkness...

LOOK TO THE SON

Caltech Christian Fellowship



Caltech Amateur Radio Club

This past year has been a very interesting one for our club. Pictured here is our club president (Sam Sjogren -- WB6RJH) risking life and limb to repair wind damage to the club's antennas on Winnett.

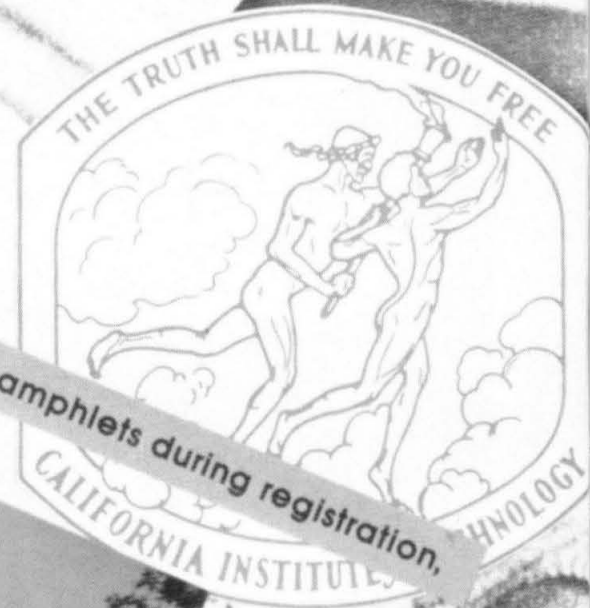
Our station saw a good deal of activity this past year, with participation in numerous contests (ARRL International DX Phone Contest, Phone Sweepstakes, QSO Party, and the Midnite Special). Through a very generous donation by an alumnus of a new linear amplifier, our low-band station is now state-of-the-art. On the public service side, preliminary earthquake preparedness measures to insure communications with the outside world were discussed with parents from Polytechnic Highschool.

CLAGS came out of the closet

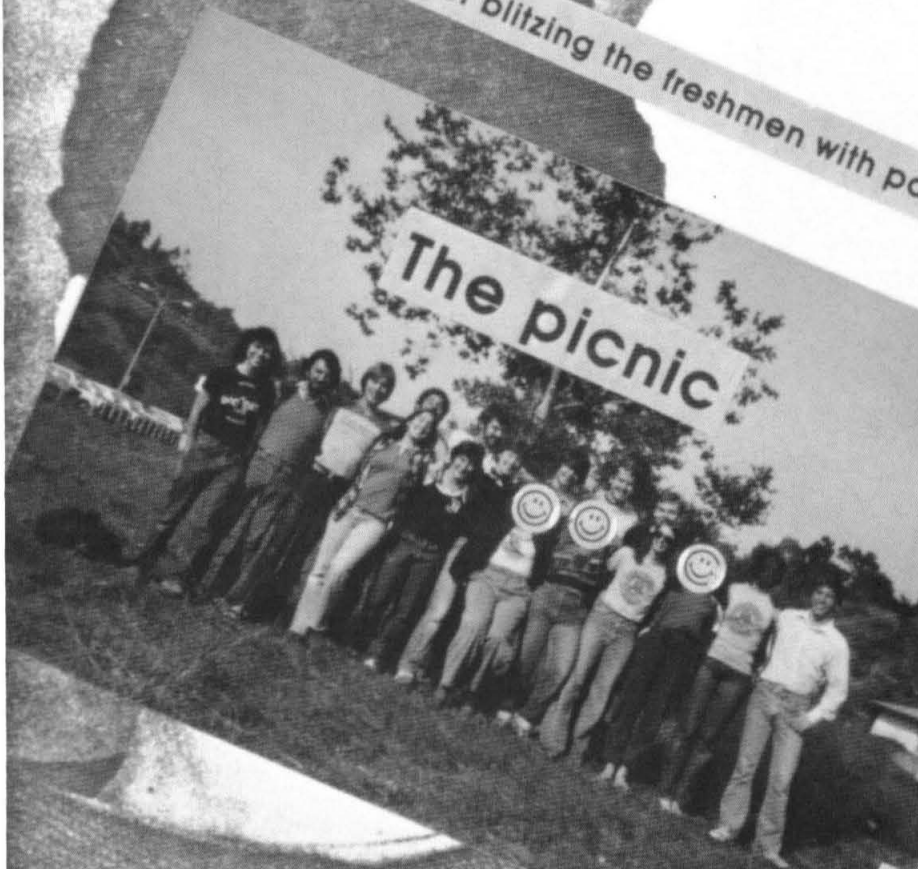
Q: If I'm a Gay Caltech student, what should I do?

Tech enters the 80s

After blitzing the freshmen with pamphlets during registration,



The picnic



next meeting!

C.L.A.G.S.

The Christmas party



Caltech Lesbian and Gay Students

The meeting

'What the hell are we doing this year?'

San Francisco for Thanksgiving



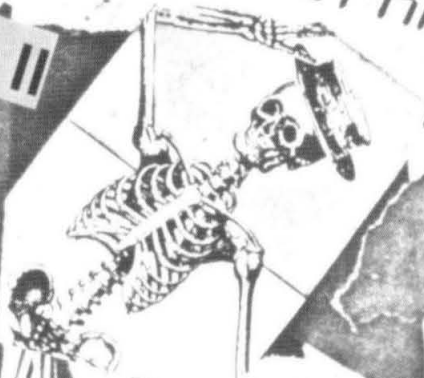
Q: If I'm a Lesbian Caltech student, what should I do?

The Dance

The Dance II

REVISED DANCE PARTY

A: CC



A.G.S.

Caltech Lesbian and Gay Students

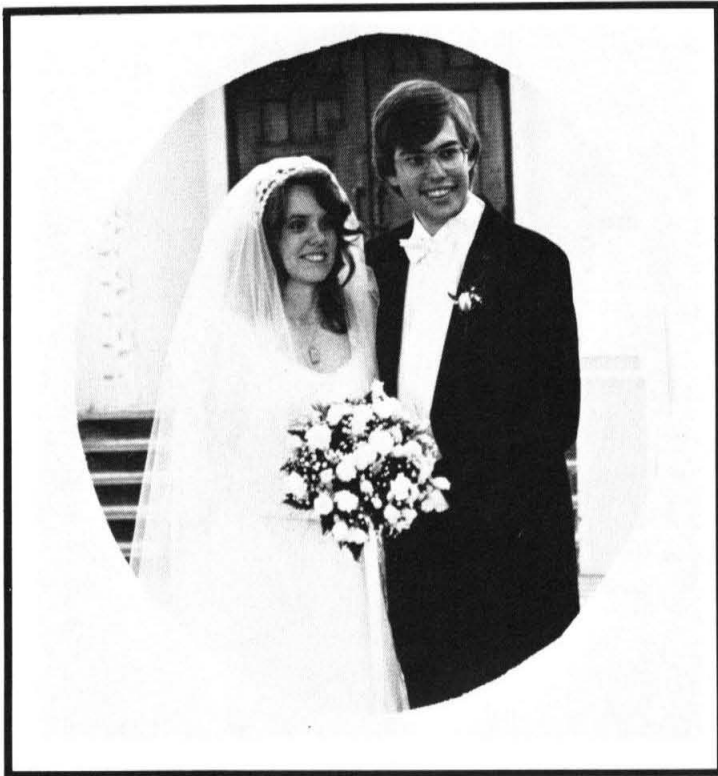
The speakers

The beach

'What the hell are we doing this year?'

COW

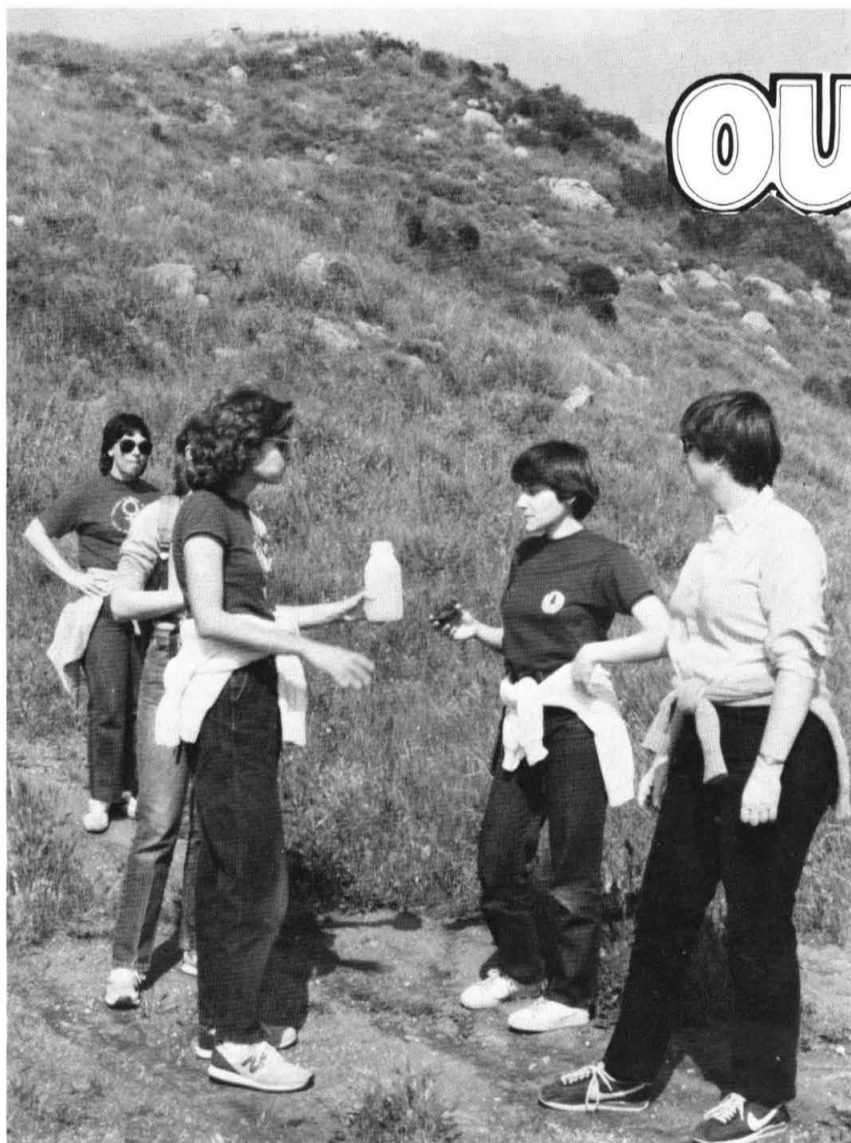
Caltech Organization for Weddings



*My life's in jeopardy, murdered in cold blood
Is what I'm gonna be
I ain't been home since Friday night
And now my wife is comin' after me
Get me p'lice protection
Gonna find someone to look after number one
Give me a bodyguard
Or a blackbelt judo expert with a machine gun
Gonna buy a tank and an aeroplane
When she catches up with me
Won't be no time to explain
She thinks I've been with another woman
And that's enough to drive her half insane
—John Entwistle*



OWC

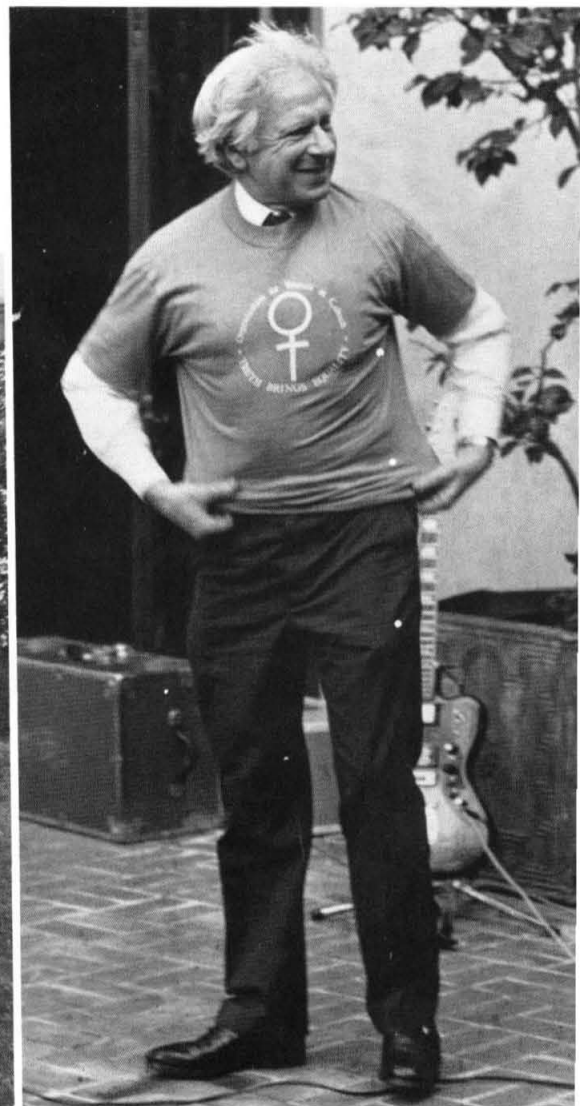


Chairperson Julia Lester

The Organization for Women at Caltech was founded in 1979, and represents students, staff and faculty. Our aim is to improve the quality of life for all women on campus.

Fall Extravaganza

*Capra Ranch Retreat
Membership Luncheon*





Caltech Jujitsu Kai

Sitting (left to right): Cathy Sheedy, Leif Bennett, Mark Meyer, Andy Liu.

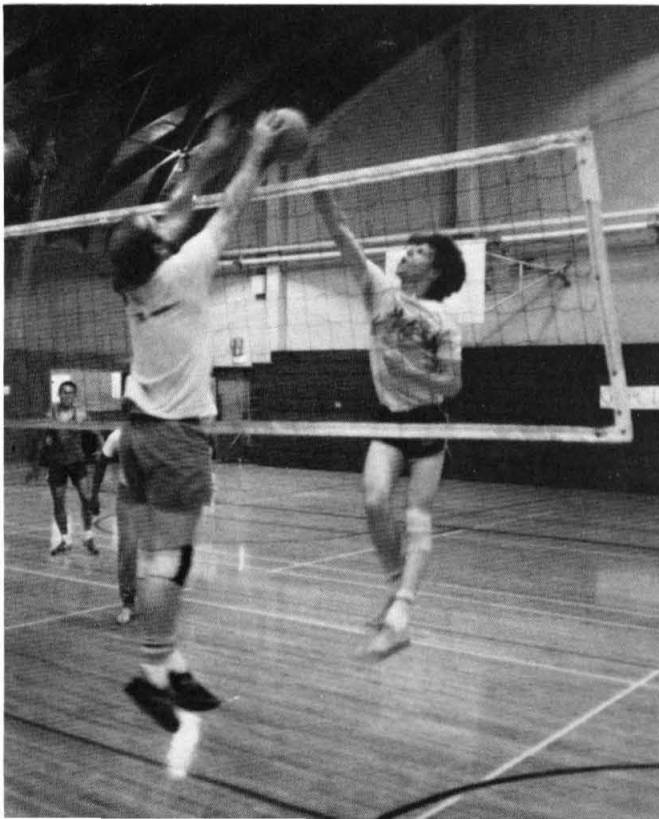
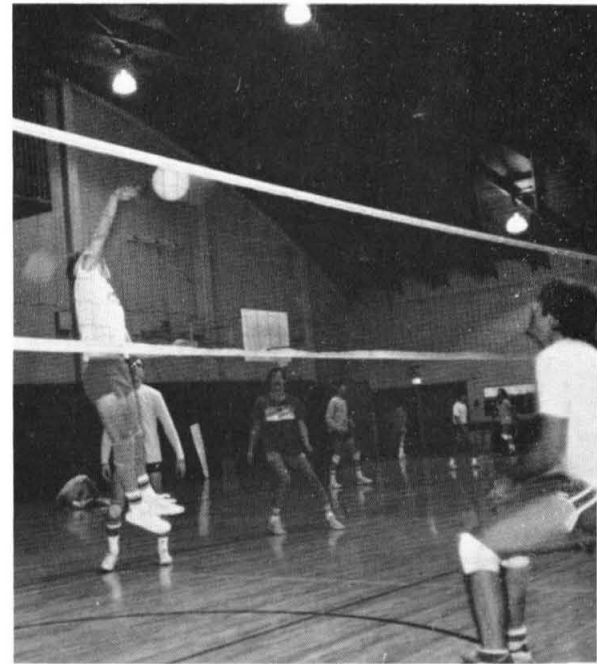
Standing: Maclen Marvit, Steve Roy, Dan Briggs, James Bell, Wen Jin Meng.



The team photo, taken outside the gym, is:

THE CALTECH MEN'S VOLLEYBALL CLUB

Starting with the bottom left is Austin, Mike Becken, Lei Yu, Chris Snyder and Rod Morrison. Prakash Kasiraj is kneeling in front of the tree. Second row: Sandy Frey (coach), Chad Edwards, John Tanner, Brian Wilson and Ted Russell. In back are Andy Berkin and Mark McGuinness.



Caltech Jazz Band

PROGRAM
RAMO AUDITORIUM CONCERT
MAY 5, 1983

CALTECH-OCCIDENTAL WIND ENSEMBLE

CALTECH JAZZ BAND

CALTECH JAZZ BAND-----SELECTIONS TO BE ANNOUNCED

INTERMISSION

CALTECH WIND ENSEMBLE

FANTASIA-----PRAETORIUS,
arr. W. BING
PSALM FOR BAND-----VINCENT PERSICHELLI
FIRST SUITE IN E FLAT-----GUSTAV HOLST
SECOND CONCERTO IN E FLAT FOR CLARINET-----CARL MARIA VON WEBER
DAVID SHIFRIN, CLARINET
THE PRIDE OF THE WOLVERINES-----JOHN PHILIP SOUSA

HERRICK CHAPEL
MAY 7, 1983

ST. ANNE'S FUGUE-----J. S. BACH,
arr. WILLIAM RHOADES
PSALM FOR BAND-----VINCENT PERSICHELLI
FIRST SUITE FOR BAND IN E FLAT-----GUSTAV HOLST
INTERMISSION
SEPTIMI TONE NO. 2-----GABRELLI
FANTASIA-----PRAETORIUS,
arr. W. BING
SECOND CONCERTO IN E FLAT FOR CLARINET-----CARL MARIA VON WEBER,
arr. T. Conway Brown
DAVID SHIFRIN, CLARINET
THE PRIDE OF THE WOLVERINES-----JOHN PHILIP SOUSA

CLARINETS

Frank Dittman
Alex Grant
Mary Ann Hoffman
Greg Jordan
Conrad Josias*
Jeff Kogen
Ari Lapin
John Morrison
Mark Pitt David Trowbridge
Trudi Wreede

BASS CLARINET

Tom Drouet

FLUTES

Jean-Pierre Bardet
Jeanne Callahan
Mats Nordahl
Perry James Robertson
Tom Skelton*
Ann Stanley Brown
Theron Stanford

PICCOLO

Julie Paque

OBOES

Jeff Nutting
Harry Hardy

Bassoon

Russell Almond

SAXOPHONES

David Love (alto I)
Dwight Garcia (alto II)
Al Goldsmith (tenor)
Reed Burkhardt (baritone)

* principal

**co-principal

***librarian and equipment manager

CORNETS

Allan van Asselt
John Brugman*
Ray Burkhardt
Chung Chan
Carl Schultheiss
Nancy Wischhusen

TRUMPETS

Albert Coleman
Duane Marsteller
Randy Tivens*

FRENCH HORNS

Jean Eldredge
David Hodge*
Don Lo
Sid Heyman
Nancy Swick

Trombones

Mike Gorder**
George Pitt III*
Mark H. McAdon
Carl Kircher
Greg Ojakangas

BARITONES

Paul Kienker*
R.J. Snook***

TUBAS

Paul Barger
Mark Cohen
Eric Moore

PERCUSSION

Steve Nixon
Ed Rhodes
Steve Thomas

TRUMPETS

John Brugman, lead
Raymond Burkhardt
Allan van Asselt
Carl Schultheiss
Kale Skinanes

RHYTHM

Les Deutch, piano
Evan Crowell, piano
David Zobel, bass
Mike Rigler, drums
Steve Thomas, drums

SAXOPHONES

Dwight Garcia, lead alto
Bob Bolender, alto sax II
Joe Wirtley, alto sax II
Reed Burkhardt, tenor I
David Frost, tenor II
Al Goldsmith, baritone

TROMBONES

Greg Ojakangas, lead
James Blinn
Jennifer Haase
Jonathan Happe

DAVID SHIFRIN

DAVID SHIFRIN is a musician on the move and is one of America's busiest clarinetists. During the 1982-83 season, he is performing as a recitalist, chamber musician, or soloist in literally every corner of the United States. He is also Professor of Clarinet at the University of Southern California, and music director of the highly-acclaimed Chamber Music Northwest summer festival in Portland, Oregon.

While a student at the Curtis Institute of Music, David won the principal clarinet position in Stokowski's American Symphony Orchestra. He later joined the Juilliard Ensemble, a contemporary music group founded by Luciano Berio and directed by Dennis Russell Davies.

DAVID has played principal clarinet with the American Symphony Orchestra, Honolulu Symphony Orchestra, Cleveland Orchestra, and is presently principal clarinet with the Los Angeles Chamber Orchestra.

DAVID has recorded with the Cleveland Orchestra, American Symphony, Los Angeles Chamber Orchestra, and has numerous solo recordings. Later this year, he will be performing the Brahms Clarinet Quintet with the Guarneri String Quartet.



and Wind Ensemble

4th annual **BANDORAMA**

featuring the
CALTECH JAZZ BAND
and the
CALTECH-OCCIDENTAL WIND ENSEMBLE
directed by William Bing

Special Guest Artist
DAVID SHIFRIN
clarinet

Mr. Shifrin appears through the courtesy
of Selmer Musical Instruments

May 5, 8:00 pm
May 7, 8:15 pm

Ramo Auditorium, Caltech
Herrick Chapel, Occidental College



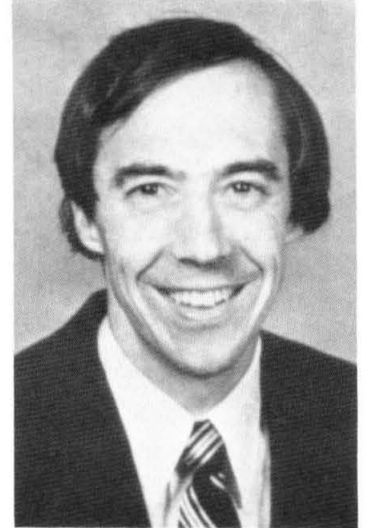
THE CALTECH GLEE CLUBS

DONALD CALDWELL
CONDUCTOR

MONICA BOWN
ASSISTANT CONDUCTOR

WENDY CALDWELL and VINCENT POWERS
ACCOMPANISTS

1982-1983 Season





John Behr
 Paul Berglund
 Ross Berteig
 John Bruckner
 Jerry Burch
 Francis Celii
 Michael Chwe
 Miles Collins
 Drew Cushman
 Brian Davison
 Frank Dionisio
 Kurt Eakle
 Dean Elzinga
 Peter Felker
 Erik Fernandez
 Donald Fossgreen
 Concetto Geremia
 James Hafner

Philip Hookham
 Jung Im
 Howell Johnson
 Peter Jones
 Daniel Kegel
 Ray Lischner
 Carl Murray
 Michael Oliver
 Apoorva Patel
 Michael Pettersen
 Cornelius Phillips
 Lee Reavis
 Don Silvert
 Ichiro Sugioka
 Marc Van Rossum
 Frederick Wieland
 Min-Su Yun

MEN'S GLEE CLUB

Ellen Bus
 Kim Cao
 Jean Chang
 Shevaun Duiker
 Gladys Engen
 Rita Gitik
 Cathy Ifune
 Atsuko Kirschvink
 Cheryl Klipp
 Michelle Miller
 Jeanne Mueller

Lisa Payne
 Jeanne Reinelt
 Ruth Ridenour
 Anita Ruth
 Susan Schiffer
 Patricia Scott
 Marianne Veith
 Karen White
 Laura Wilson
 Miriam Zucker

WOMEN'S GLEE CLUB





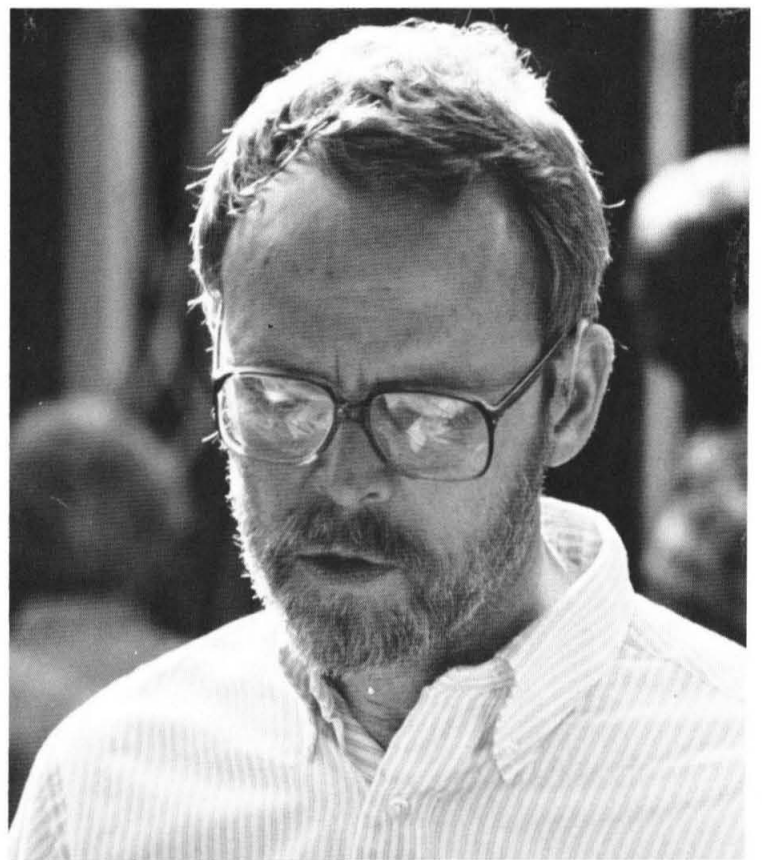
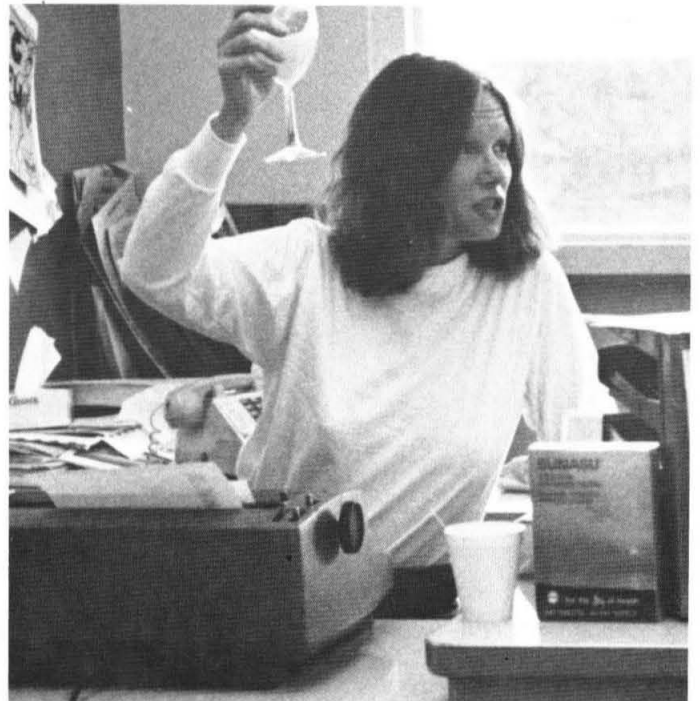
Caltech Lawn Curling Club

*Rustle Almond, Coach
Paul Berglund, Team Captain
Also starring Charles Cuny
and Jim Cser*

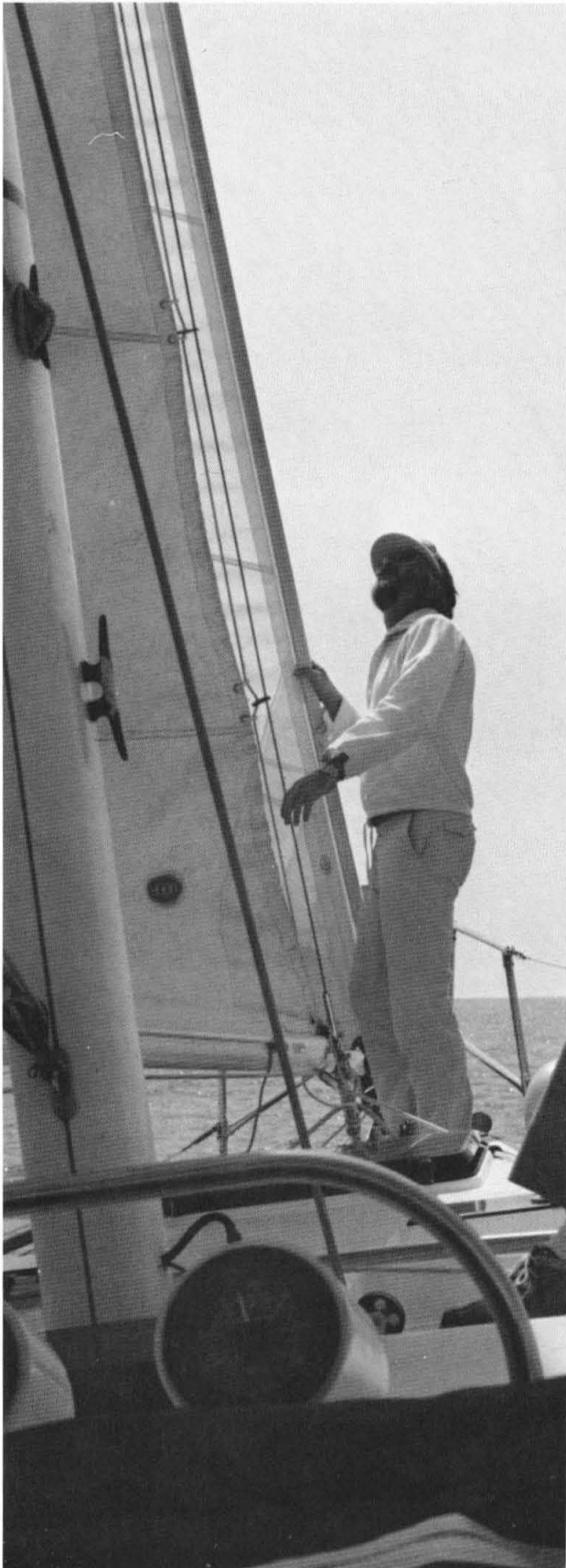




the CALTECH Y



PROGRAMS

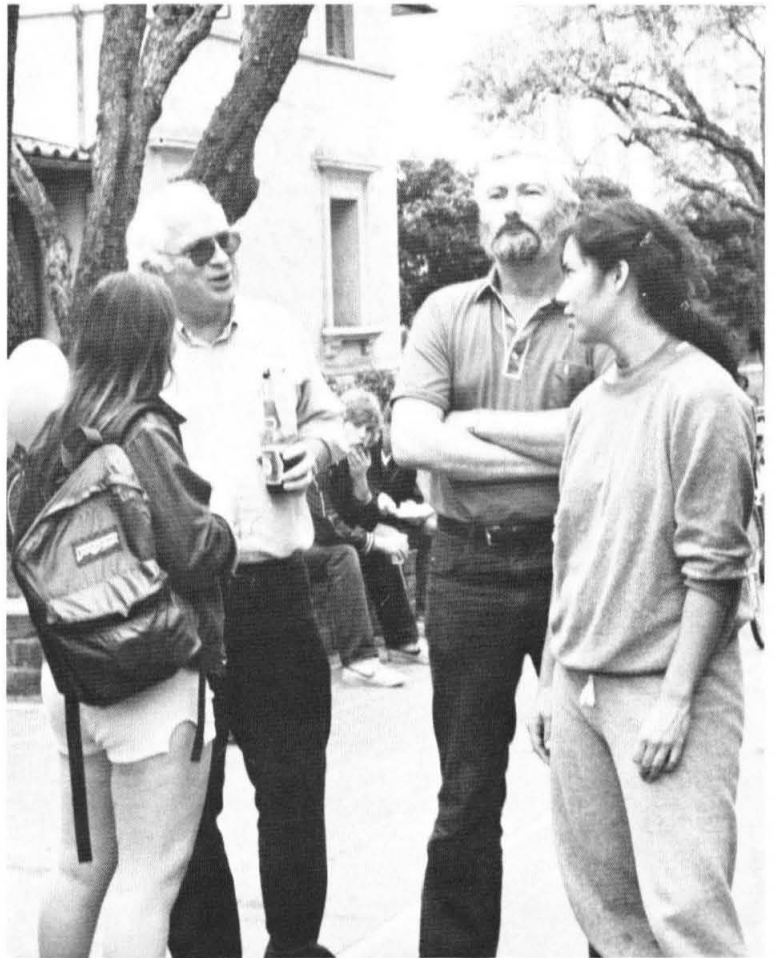
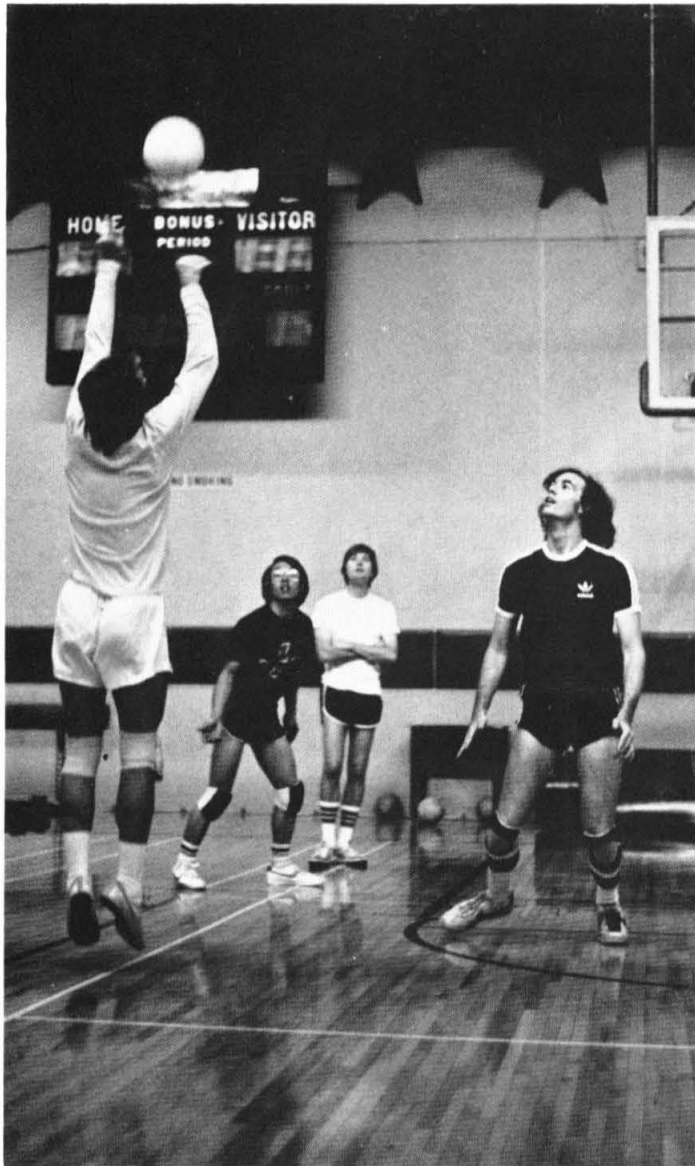


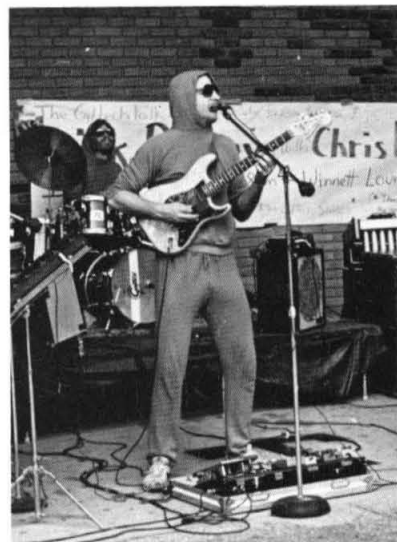
Frank Stewart

ES-207-1084

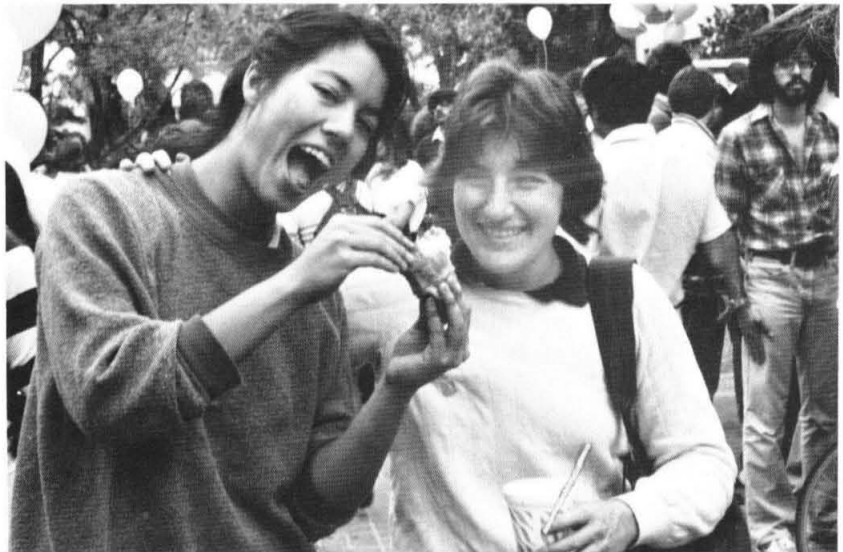
SPORTS

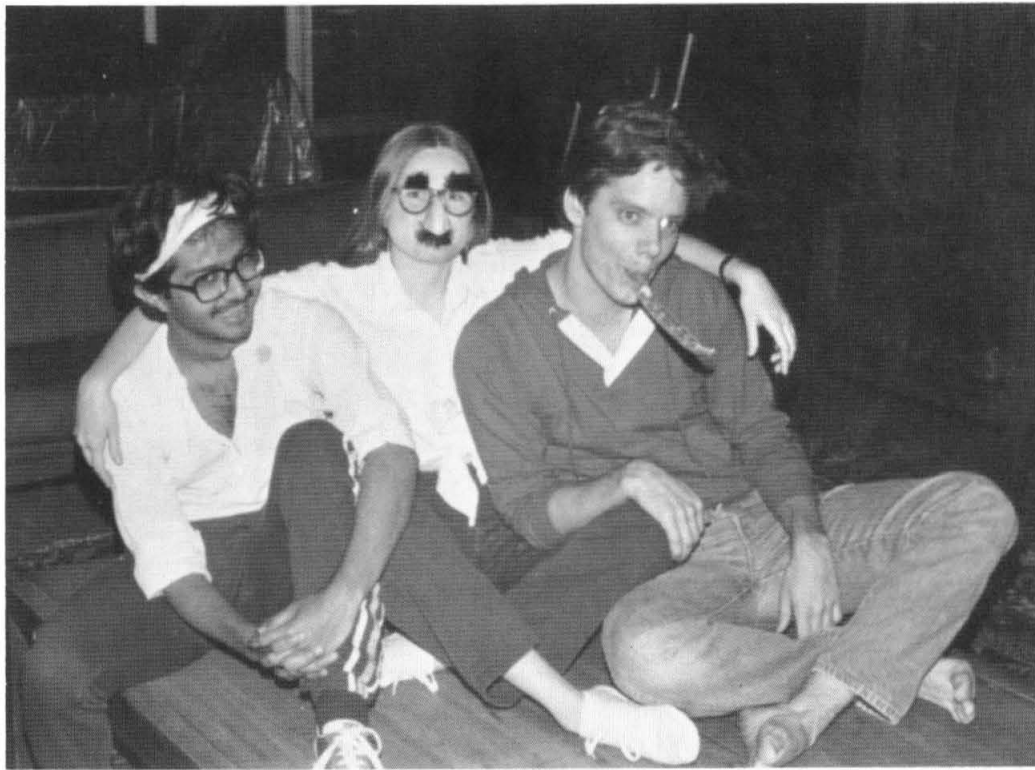
DAY





NOON CONCERTS





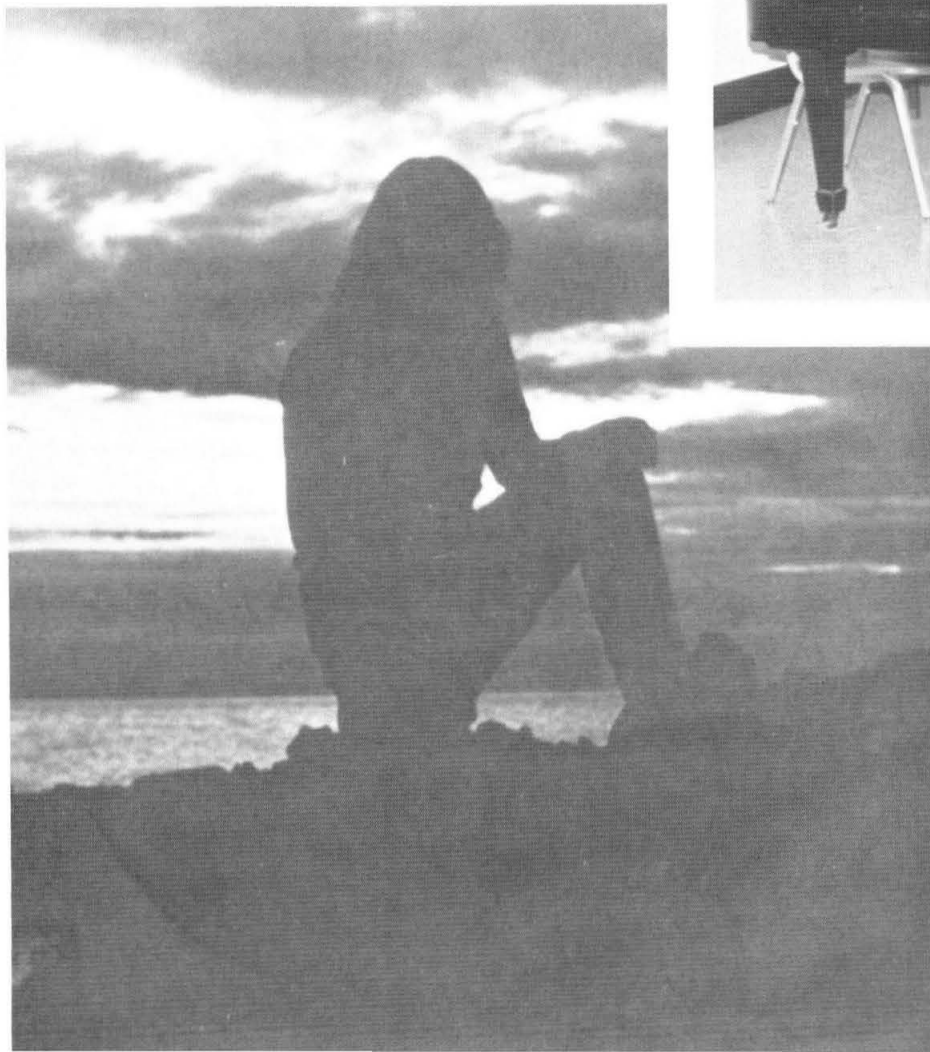
EDITORS

Glen Crawford

Anirvan Ghosh

Third (World, woo!
-ed) term saw *TOTEM*
return from the dead.
TOTEM, Caltech's
'literary' magazine, was
published after a lapse of
several years and featured
prose, poetry, and art-
work. Highlights include
three faculty contributions
and a prizewinning pro-
sepiece entitled "On the
dissection of a Techer's
brain" by freshman War-
ren Goda.

totem and
little t



Keep trying,

California Tech
The California Tech

Julian



Saturday Night
6:30 pm
Sponsored by the Vice
President for Student Affairs,
the Deans, and the Master

To the
Registrar

Responsible
Journalism
for Caltech

The Inside
World of

Tech

The California Tech

TECH

The California

THE CALIFORNIA
CALIFORNIA

BARBECUE
on the Olive Walk
for all in appreciation

March
Forth

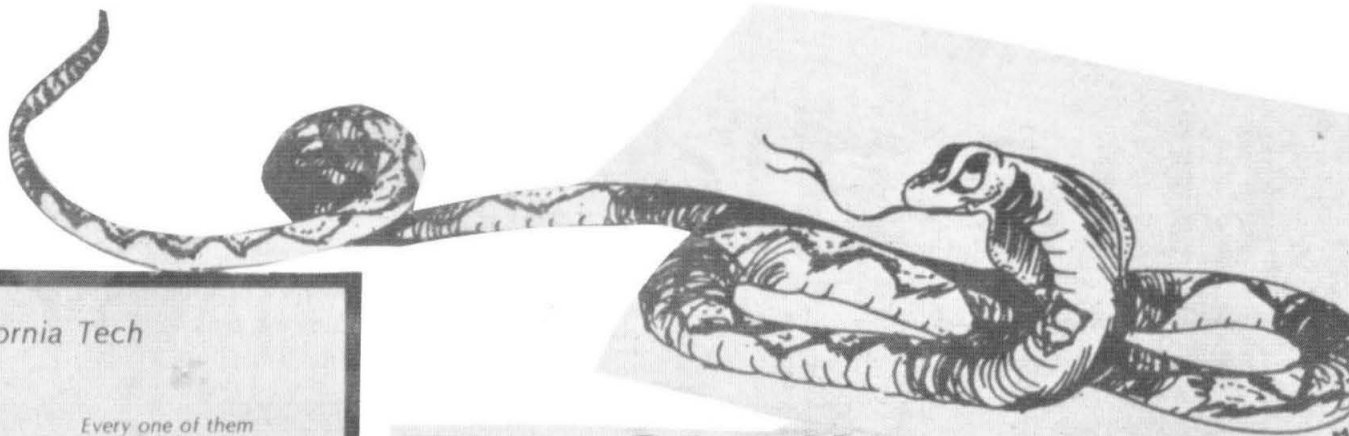


This, by the way, is
Ken Whang

I always win in the end.
Well, the voters told Julian to eat cake
one to oblige, the Editor did.

California Tech
Pasadena, California
Volume LXXXIV
Number 18
February 11, 1983

Calific



The California Tech

February 11, 1983

Volume LXXXIV Number 18
Published weekly (we sincerely hope) by the Associated Students of the California Institute of Technology, Inc. The opinions expressed herein are strictly those of the authors and do not necessarily reflect those of the editors.

Editor-in-Chief
Julian West

Editor Elect
Ken Whang

Entertainment Editor
Mark David Nielsen

Photo Editor
Ron Gidseg

Photography
Karyn Betzen
Ed Miles

But Not Ken Whang

Writers

Joe Decker, Tracy Furutani,
Anirvan Ghosh, John Hartzberg,
David Marvit, Mark Nielsen,
Stewart Peebles, Gary Rowland,
Gordon Smith, Yosufi
Tyebkhan, But Again Not Ken
Whang

*Every one of them
wonderful*
Theresa Meisling

Production
Lise-Lotte Bjorck
Ron Gidseg
Mark David Nielsen
Nick Smith
Julian West
Still Not Ken Whang

Moose contributed by
Steve Roy

Business Manager
Ron Gidseg

Circulation Manager
Jack Ausman

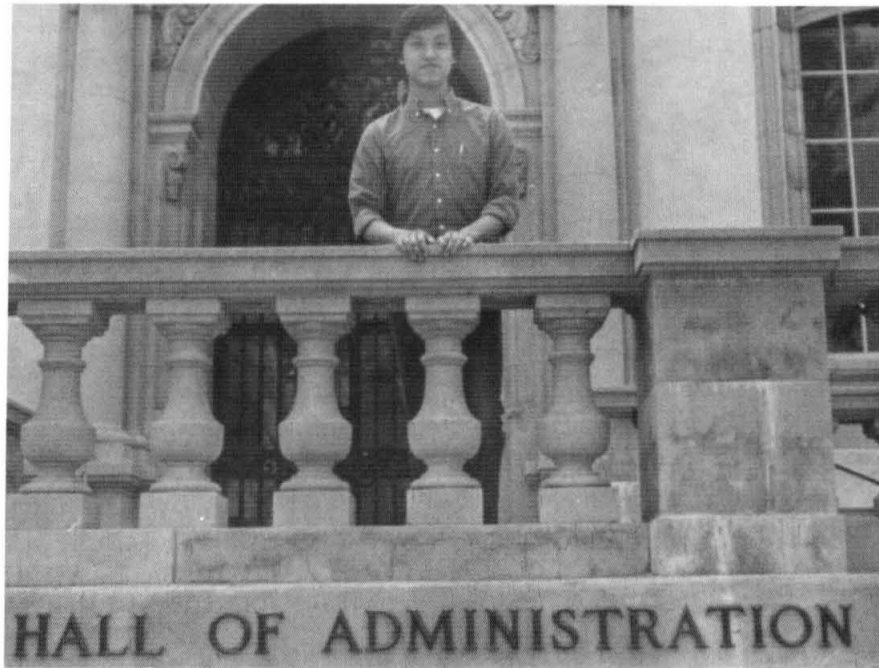
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The Challenge



We're not gonna take it
Never had and never will
Don't want no religion
And as far as we can tell
We're not gonna take you
Gonna shake you
Gonna rape you
Let's forget you better...still

Right behind you, I see the millions
On you, I see the glory
From you, I get opinions
From you, I get the story

-Peter Townshend



Ouch!

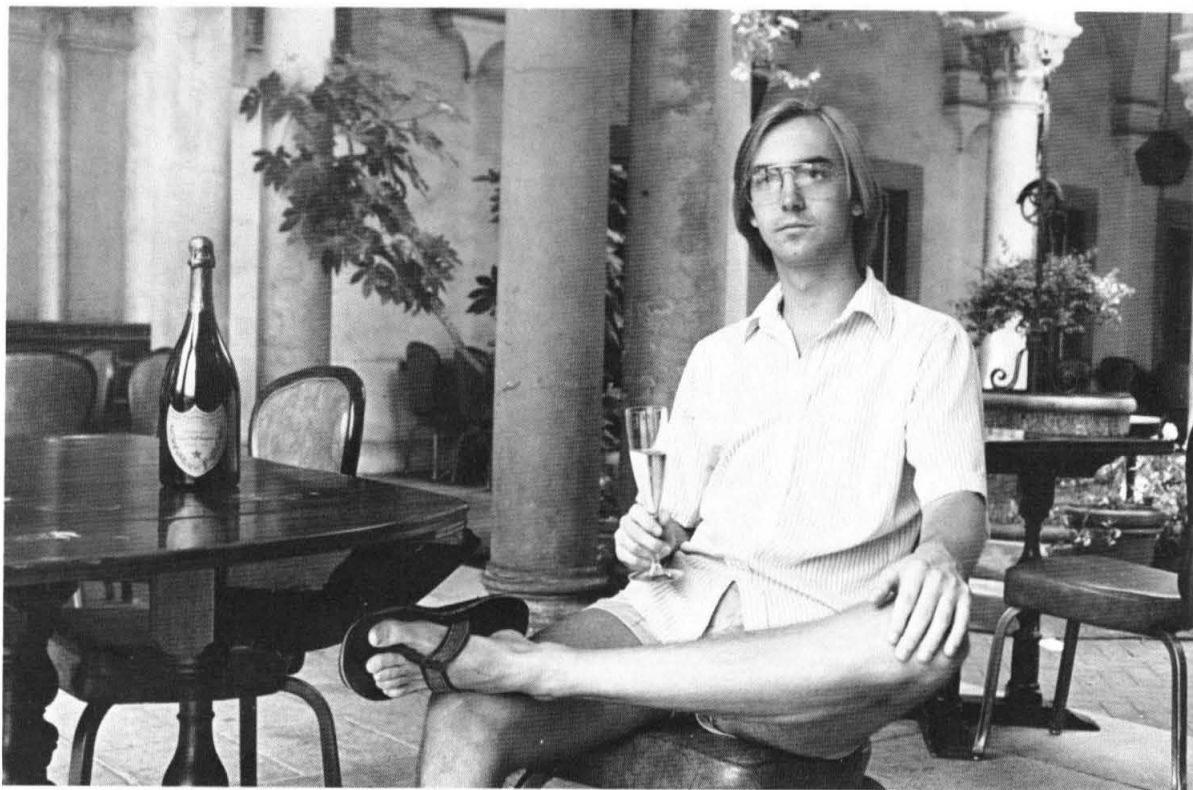


the BIG

T

one happy family

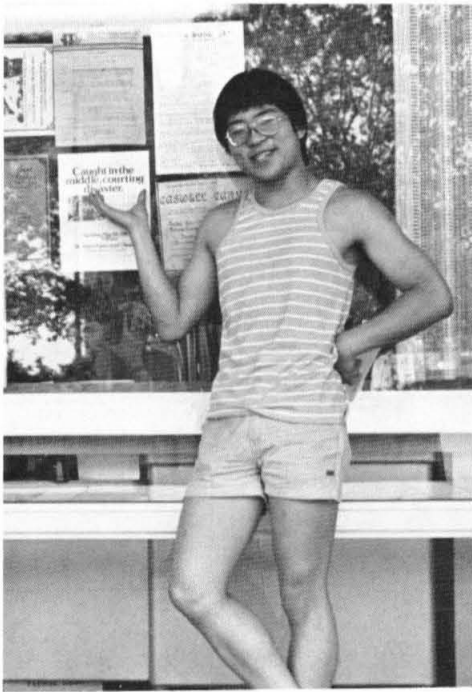
Director of Photography
Roger Fong
Assistants
Russell Almond
Ed Miles



Photographers— *Russell Almond, Praveen Asthana, Roger Fong, Ron Gidseg, Kirk Haselton, Gail Manning, Ed Miles, Sergay Mnatzakamian, Michael Terepka, Barbara Turpin, Sing Wong, Michael Takayama.*

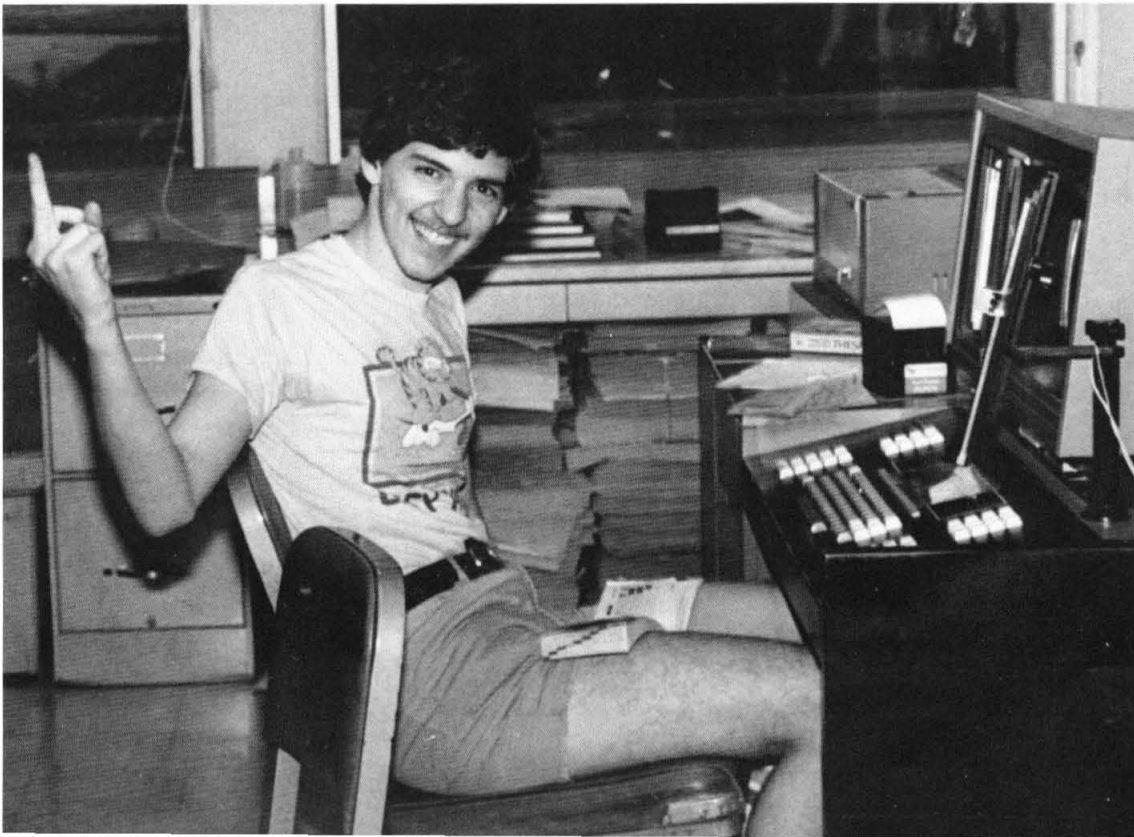
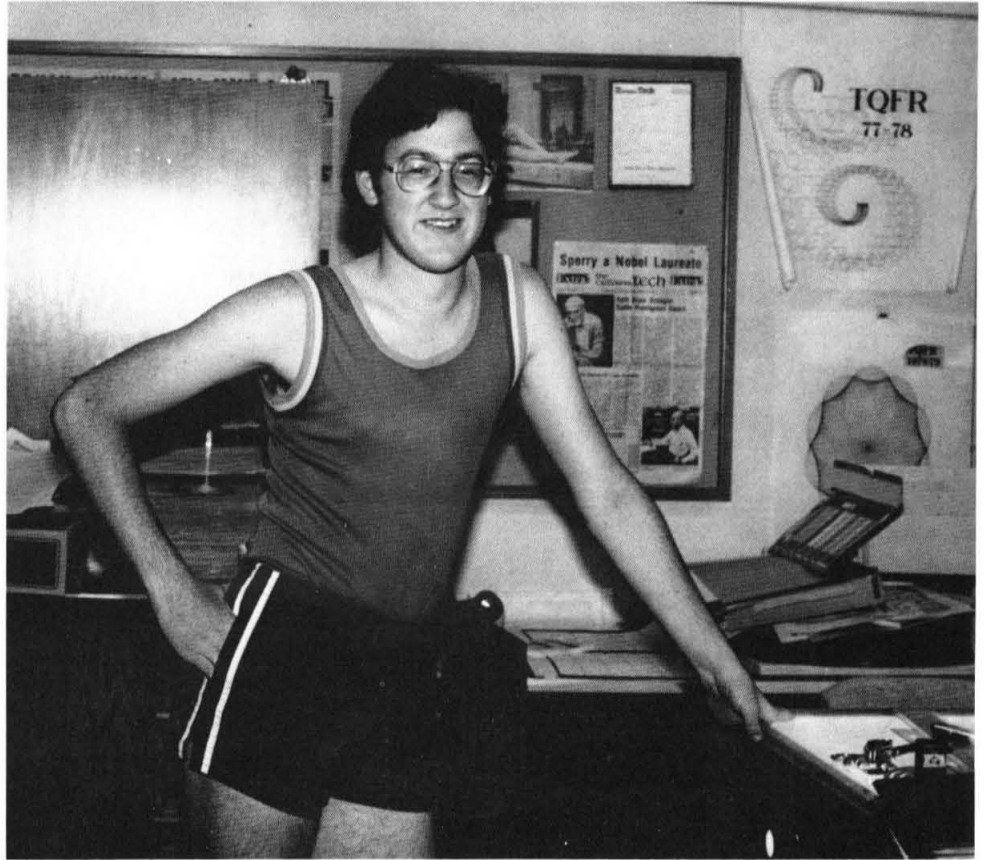
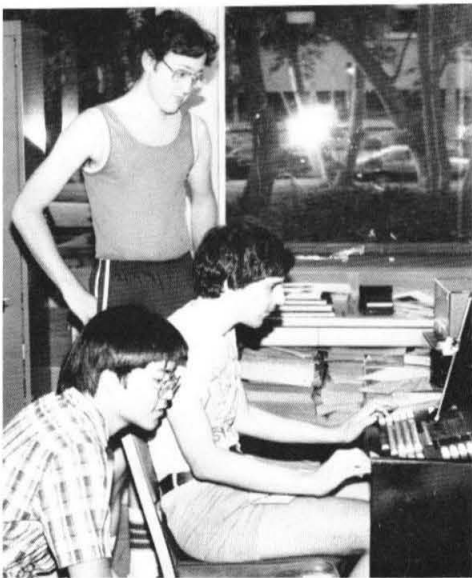
Head Photographer Roger Fong: *I like to shoot people.*





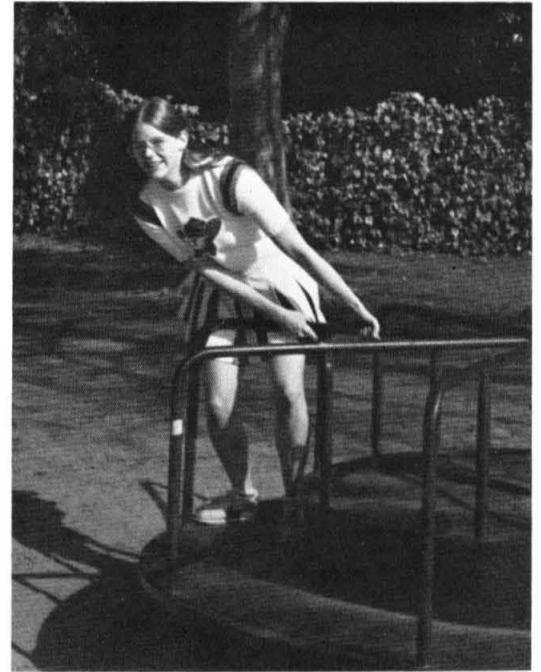
*Don't know why I feel so bad
Is it the weather
Or am I going mad?
Don't know why I feel this way
I don't know whether I'm coming
Or I'm going
Can't cover up
'Cause it's obviously showing
It's a state of confusion*

*Now I awake in a cold, cold sweat
Am I overdrawn,
Am I going in debt?
It gets worse
The older that you get
This state of confusion I'm in
This state of confusion I'm in
—Ray Davies*



Chairman of the Board
Tracy Furutani
President
Praveen Asthana
Director of Production
Mark Purtill
Assistant
Charles Cuny

*Well she might be the talk of high society
She's prob'ly got a lousy personality
She might be an heiress to Rockafeller
She might be a waitress or a bank teller
She makes Venus de Milo look like she's got no style
She makes Sheena of the Jungle look meek and mild
—Bruce Springsteen*



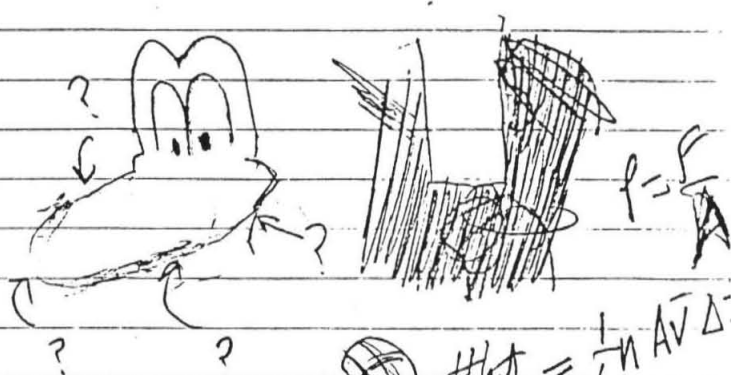
Photos by Steve Swanson

CHEERLEADERS



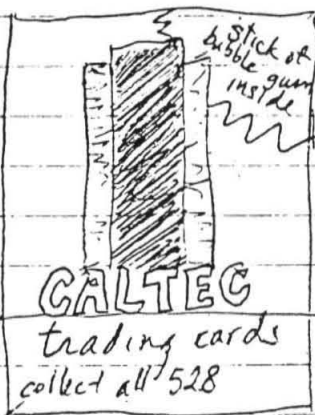
Ph2c 4/11/82
 Statistical Physics

Microstate
 Macrostate-avg #'s



e-Stan record:	Twitter physics
lectures attempted	failed sum pct
81-82 40	38 2.05

e-Stan was the first Phys 2 lecturer to be drawn & quartered in class

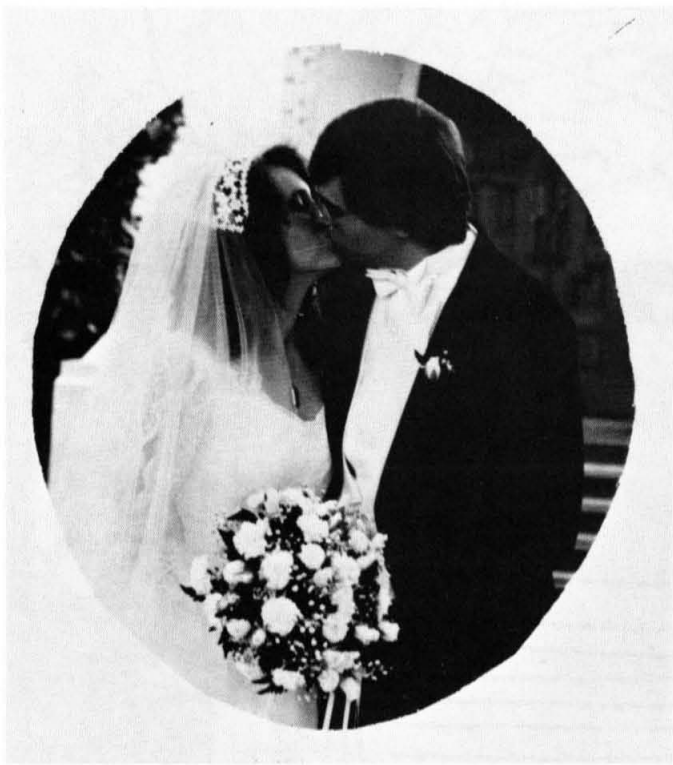


cl Sarcasmo

Hand-drawn sketches of a person's face and a cowboy hat. The face is labeled with $f = \frac{2}{3} n E_{\text{avg}}$. Below it are the equations $E = 6 \times 10^{14} \text{ erg}$ and $N = 5 \times 10^{24} \text{ cm}^3$.

**GRATUITOUS
 SEXUAL
 REFERENCES**





OH NO! OINK, YOUR BOSS AT THE CHEESE WORKS IS COMING FOR DINNER AND...

I WAS GOING TO MAKE A CHEESE SOUFFLE, BUT I JUST FOUND OUT IT NEEDS CHEESE, AND WE DON'T HAVE ANY!

DON'T WORRY! I'LL GO GET SOME!

BUT, WHERE? ALL OF THE CHEESE SHOPS ARE CLOSED!

I'LL GO OUT TO THE CHEESE WORKS!

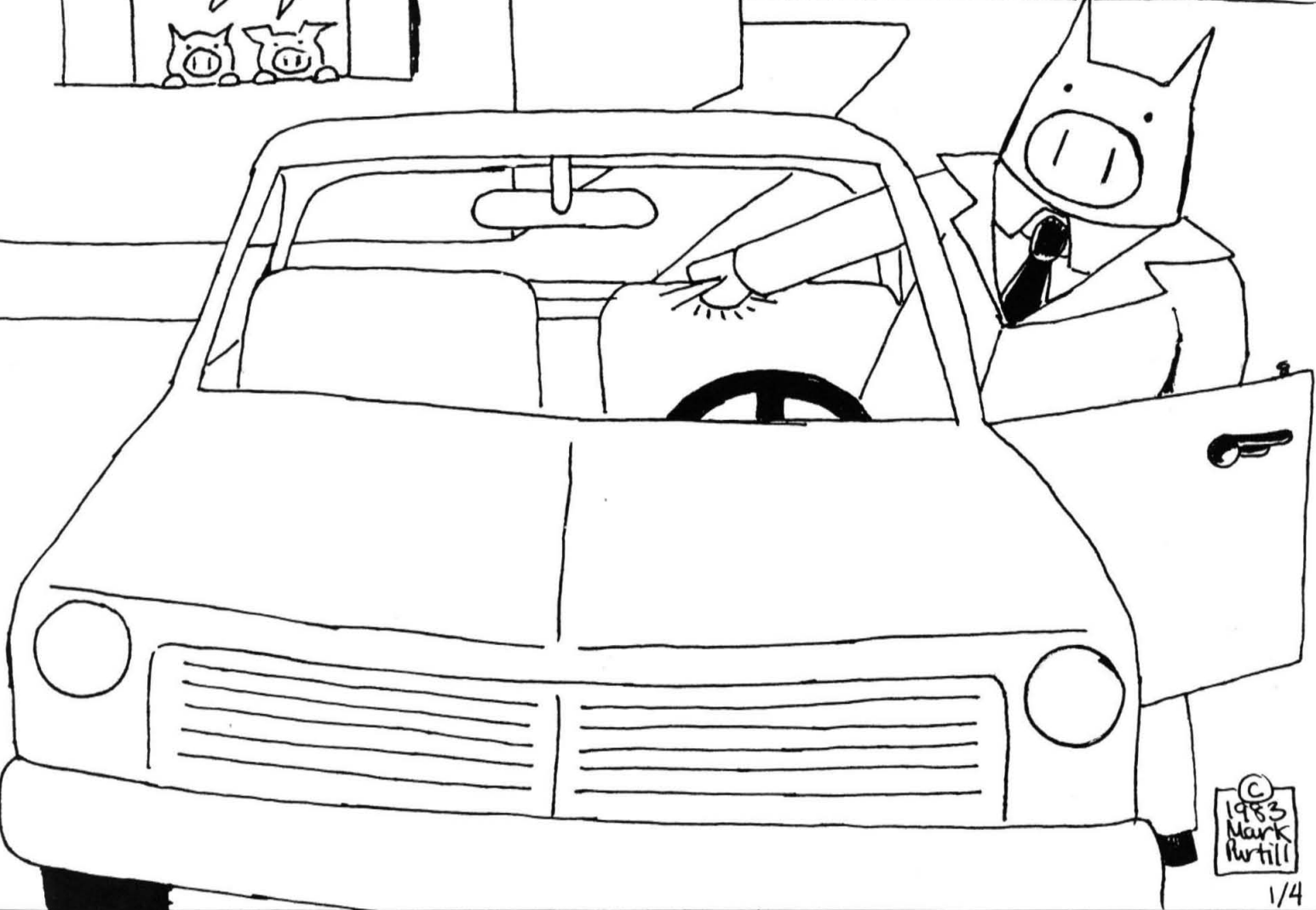


"HE HAD A WIFE AND PIGZ IN MONTEREY JACK WENT OUT FOR CHEESE AND HE NEVER CAME BACK"
- BALLAD OF OINK ZEGGPOLD, BY B. SPRINGSWINE

THE ORIGIN OF OINK ZEGGPOLD

BYE, BYE, DADDY!

BYE, PIGZI!



© 1983 Mark Ruffill

SOON, AT THE CHEESE WORKS...

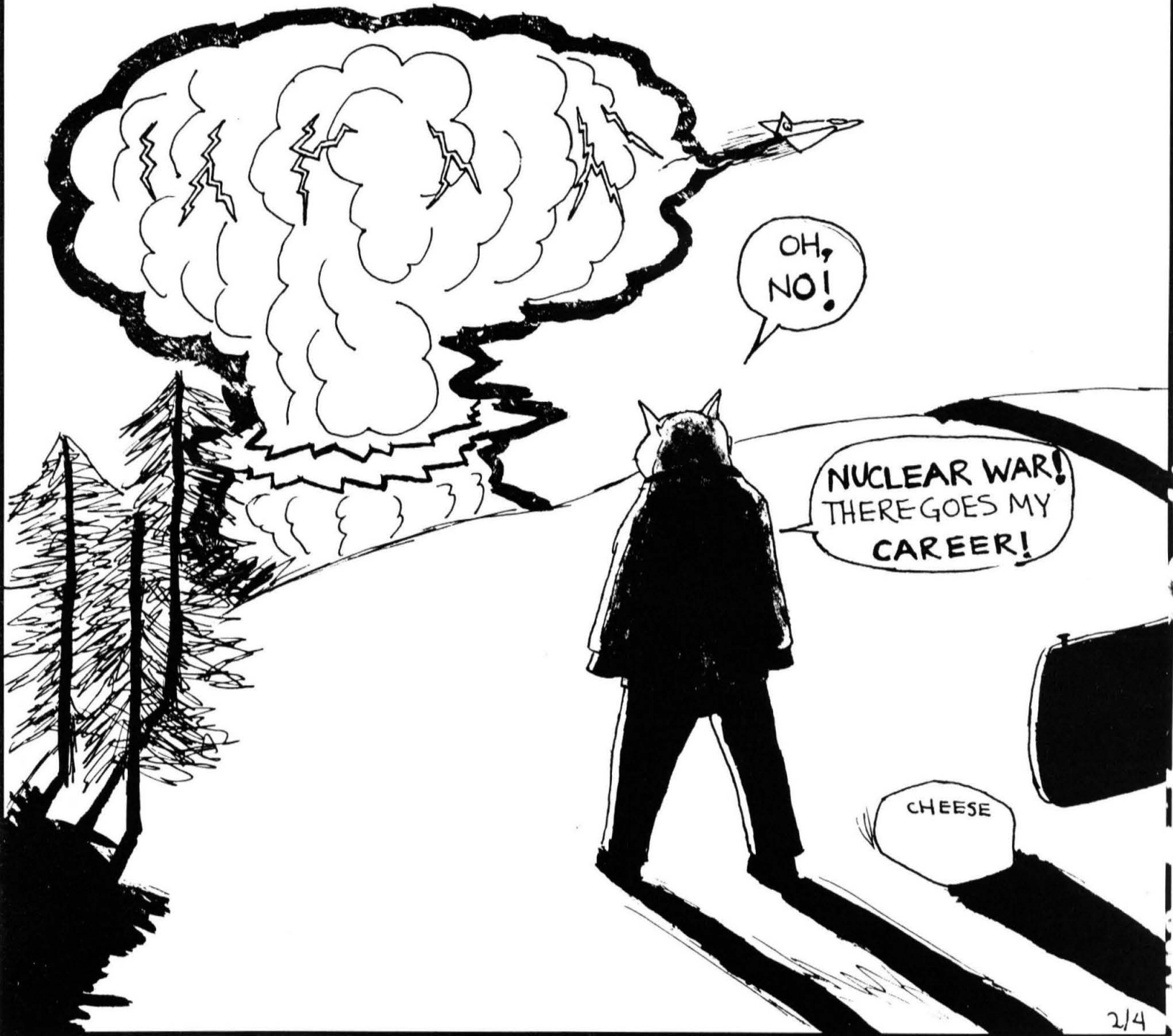


I'LL GET SOME
LIMBURGER IN CASE
HE STAYS TOO LONG!

RETURNING FROM THE WORKS...



WHAT'S
THAT?



OH,
NO!

NUCLEAR WAR!
THERE GOES MY
CAREER!

CHEESE

JUST THEN...

A SURVIVOR, EH?
I'LL SOON FIX
THAT!

OINK!

MEANWHILE, IN HILBERT SPACE...

READY TO RE-ENTER
NORMAL SPACE ON
YOUR ORDER, SIR!

RIGHT!
NAVIGATOR,

GO!

AND WITH A...

ZOOOP!
ZOOOP!
ZOOOP!

THE BURGLANDTREK
APPEARS IN SPACE
NEAR THE PLANET
MONTEREY JACK!!!

BURGLANDTREK

SCANNER
REPORT,
ENSIGN!

SCANNERS
SHOW MANY
QATZ, ONLY
ONE UNGULATE
SURVIVOR!!

AND WHAT ABOUT OUR UNGULATE?

A CAT!

YOU WERE THE ONES WHO BOMBED MONTE-REY JACK!

OF COURSE! WHO -

PROW?

GGRRRRR!!

QAT, ACTUALLY! I'M HERE TO MOP UP AFTER OUR ATOM BLAST!

BOINK?

BZZZZZZO!

PROW!

LOOKS LIKE WE DIDN'T HAVE TO TELEPORT DOWN IN SUCH A HURRY!

BZZZZZZO!

WHO ARE YOU?

WE ARE BUREAUCRATS WITH THE MINISTRY OF ZEGGPLANTZ, AN ORGANISATION DEDICATED TO KILLING QATZ!

YOU SEEM TO HAVE A NATURAL TALENT FOR IT! WHY NOT JOIN US?

SURE!

AND WITH THAT WORD, OINK ZEGGPOLD

JOINS THE HEROES OF BURGLAND, AS THE GREATEST ANTI-QAT AGENT OF ALL TIME...

OINK Zeggpold™
SPACE BUREAUCRAT 4/4
END.
July 1983

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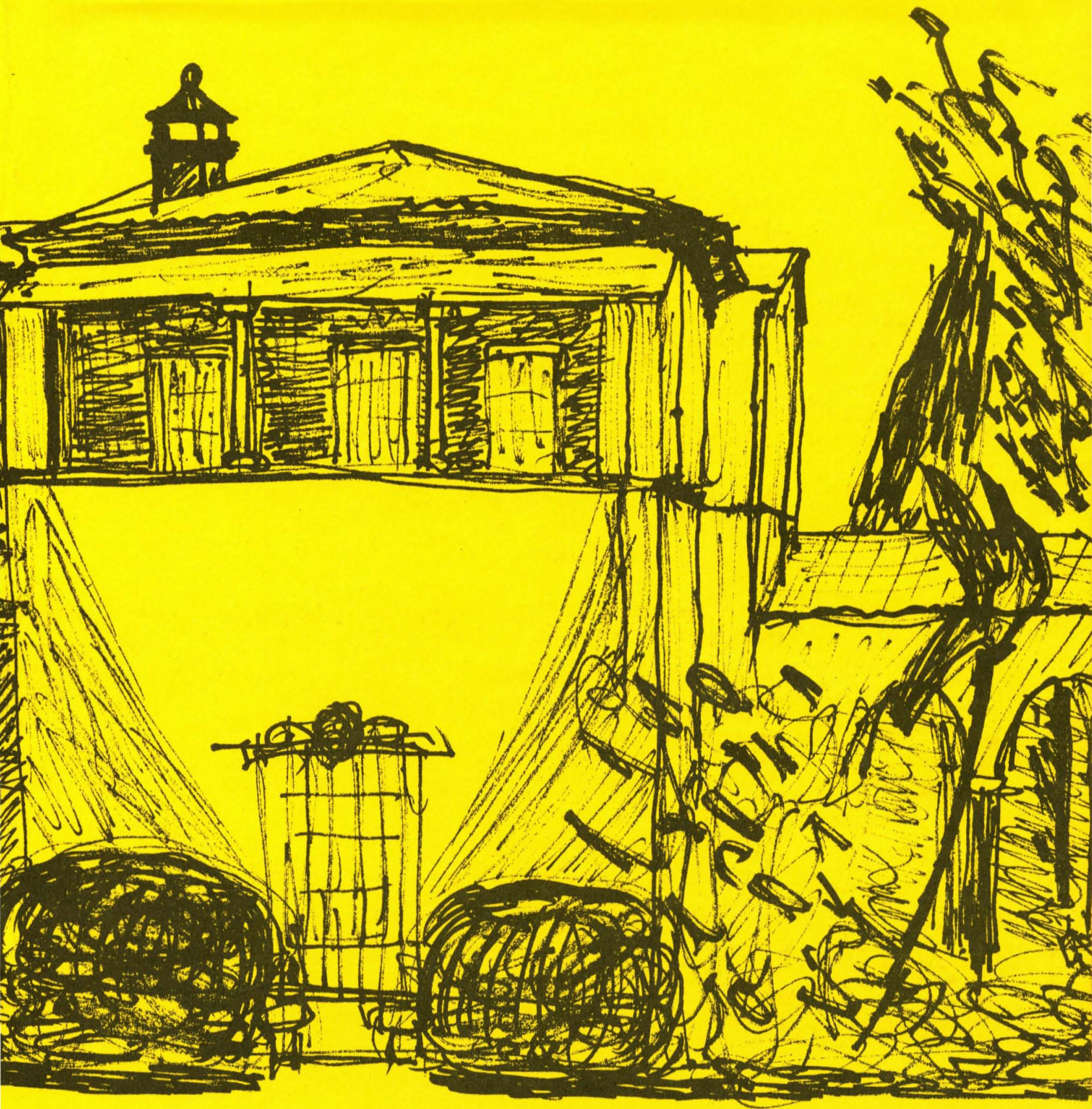
Tracy Furutani

Cover: Richard Regan

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Tonight down here in Linden Town I watch
There's a beautiful full moon rising above



the cars rushin' by home from the mill
the Mansion on the Hill. -Bruce Springsteen