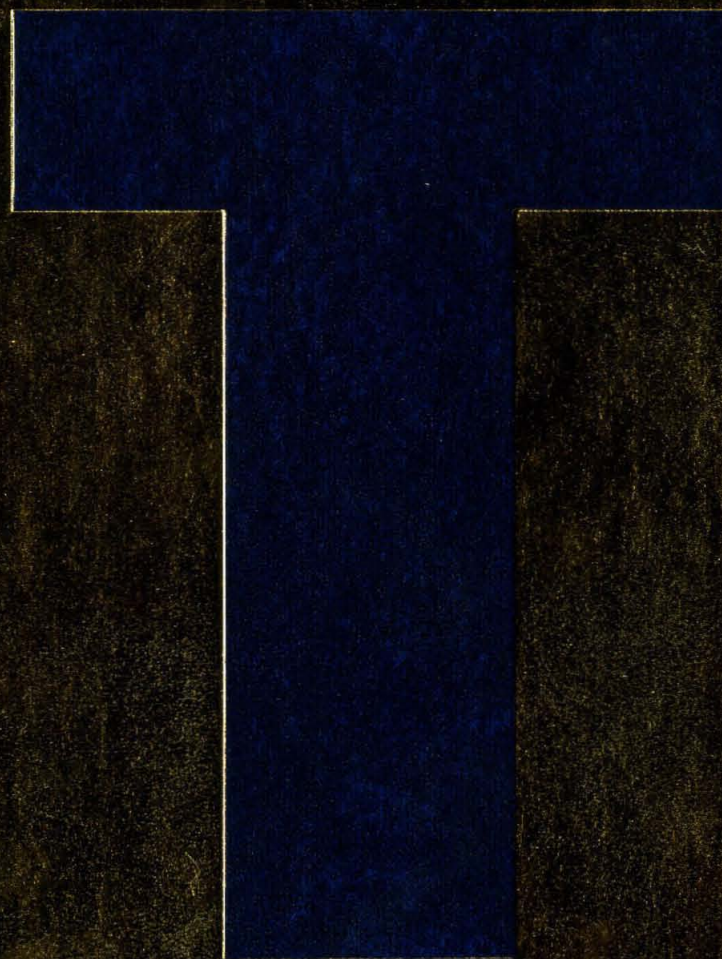


T • H • E  
CALIFORNIA INSTITUTE OF TECHNOLOGY

# The BIG



EIGHTY-FIFTH ANNIVERSARY EDITION  
M • C • M • X • C • V • I • I











"The covers of this book are too far apart" —Ambrose Bierce

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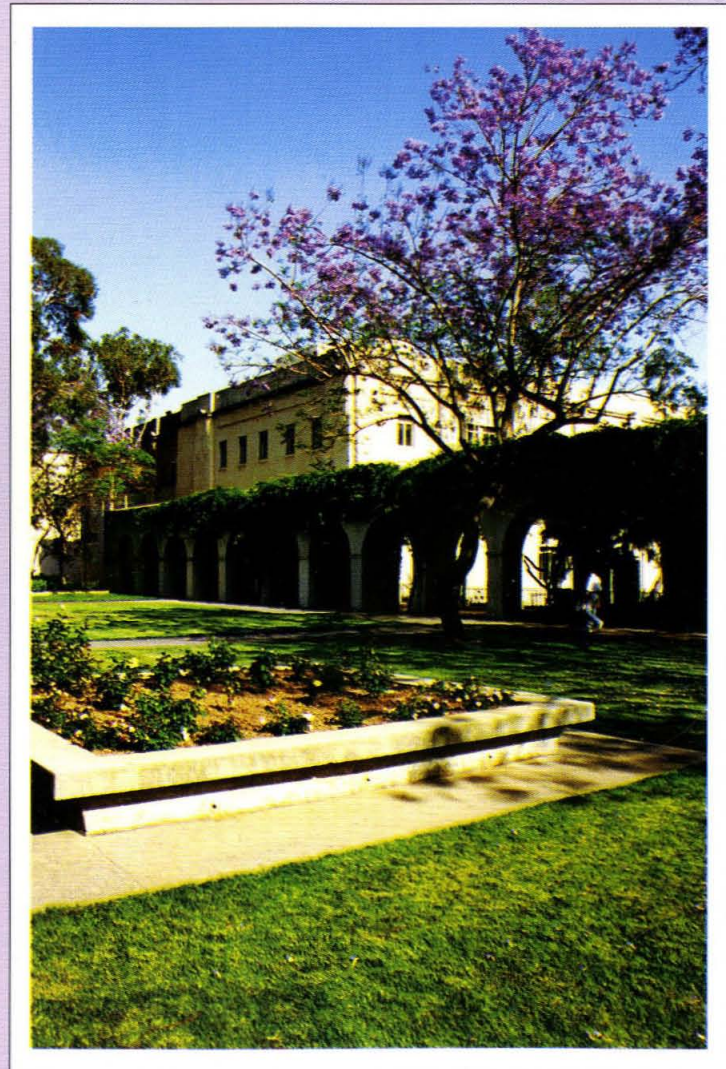


# Welcome to Caltech!



The California Institute of Technology's campus lies nestled in the foothills of the San Gabriel Mountains of Southern California. From the oldest tree on campus, the Engelman Oak, to the newest building, Sherman Fairchild Library, the campus is a beautiful haven from the daily grind of classes and studies. As students sweat through classes like AMa 95 (aka "The Shaft") they can at least enjoy the walk there.

Many of the older buildings, like the South Houses, are of the classical Spanish Mission style, with stuccoed walls and tiled roofs. Newer buildings, like Avery house, have returned to this style. The grounds are complemented by many rosebushes. Since the bushes rarely stop blooming in the balmy Mediterranean climate, students can always stop and smell the roses when classes get too tough!







To far left, top — The setting sun bathes Beckman Auditorium and the Court of Mann in color.

To far left, bottom — The lawns and roses make a pleasant impression before math classes in Sloan.

To left, top — The Engelmann Oak is one of the oldest oaks in California, amazingly still standing on an ever growing campus.

Bottom — Below, the "Whirling Blades of Death," in shadow of Millikan Library.





# Welcome to Frosh Camp



Above: David Politzer, Ian Swett and Pete Frazier wait for the boat to leave.

Below: Gene Plotkin and Abraham Kuo fight seasickness by playing chess on the way to Catalina Island.



New students were truly welcomed to Caltech during "Frosh Camp," held every year at Camp Fox on Catalina Island. It was an exciting series of experiences: from leaving Tech at 6am, herded onto the buses by new Dean Jean-Paul Revel who enthusiastically gave directions through his megaphone, to the trip back to the mainland, when a school of dolphins surrounded the boat, prompting an impromptu lecture from biologist Revel (foreshadowing the lectures he would give in Bi1 during third term.)

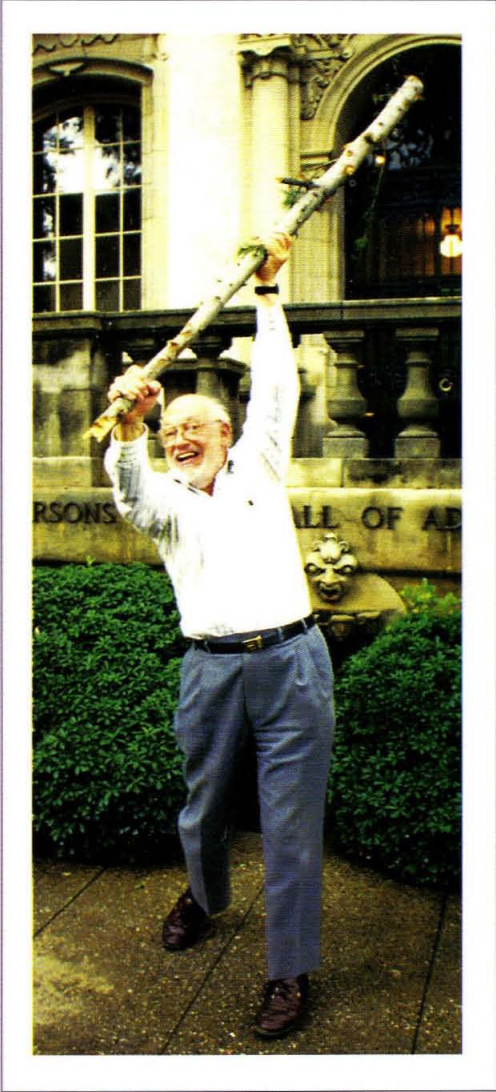
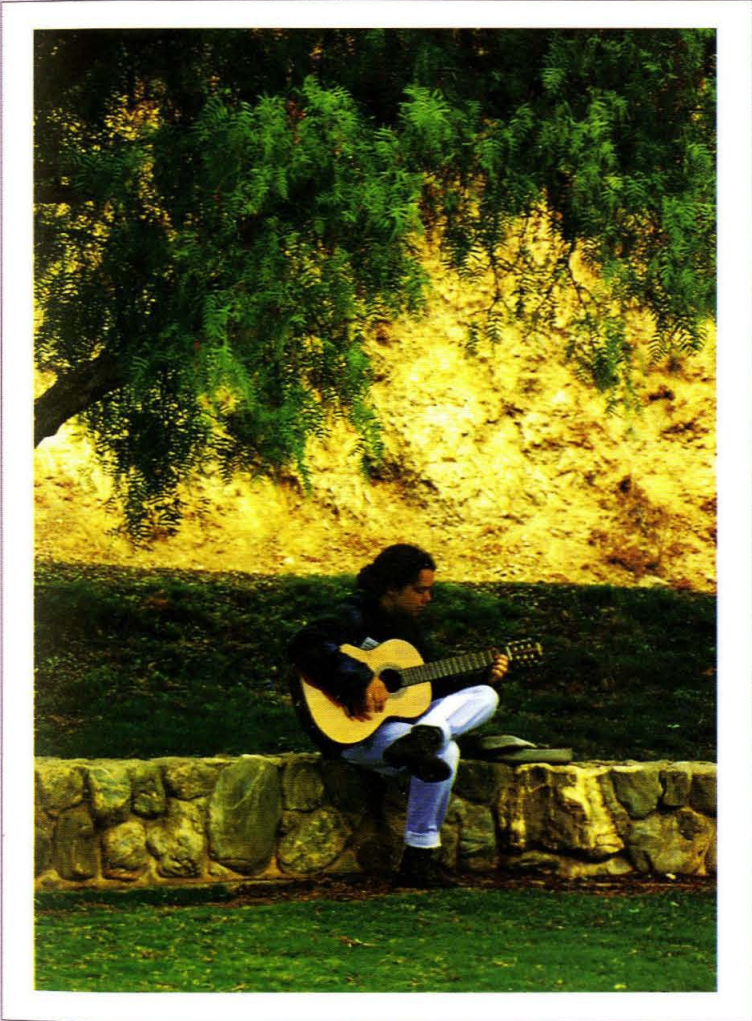
While on the island, students met in small groups to discuss life at Tech with older students, designed boats for the annual competition, learned about classes and options, swam, attended seminars on the Honor Code, Challenges & Choices at Caltech, and Diversity at Caltech, hiked, watched bonfires, ponded (oceaned?) the ASCIT President, and complained about the food. (What are those flecks in the Kool-aid, anyway?) It provided a welcome break from the pace of the newly-implemented Caltech 1a, and relaxed all the freshman before classes.



Right: Nasim Afsarmanesh leads a discussion of life at Caltech.

Below, left: Myfanwy Callahan takes a moment out with her guitar.

Below, right: Back at Tech, Dean Revel shows off his great sense of humor in this picture taken to accompany his weekly column in *The California Tech*, the student newspaper.





# Welcome to Avery House



Avery House, donated by millionaire R. Stanton Avery, opened its doors to undergraduates, graduate students, and faculty this year. Despite concerns about house rules and government, Avery has developed into a place where restrictions on painting the walls produced a surprising mural made of Post-It<sup>™</sup> Notes. The food at Avery is always excellent, and in addition to a cafeteria, it boasts the Avery Cafe, open late for coffee and pizza.



Above: R. Stanton Avery cuts the ribbon at the dedication of Avery House.

Right: The Avery triangle, promising Creativity, Integrity, and Tenacity.

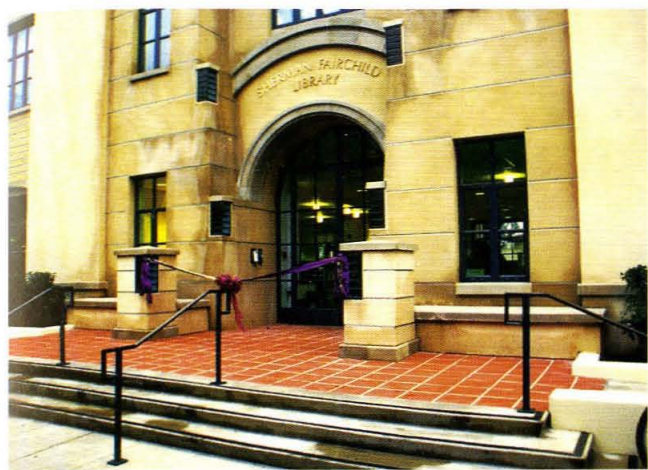


Above: The Avery Cafe, a two-level dining area.

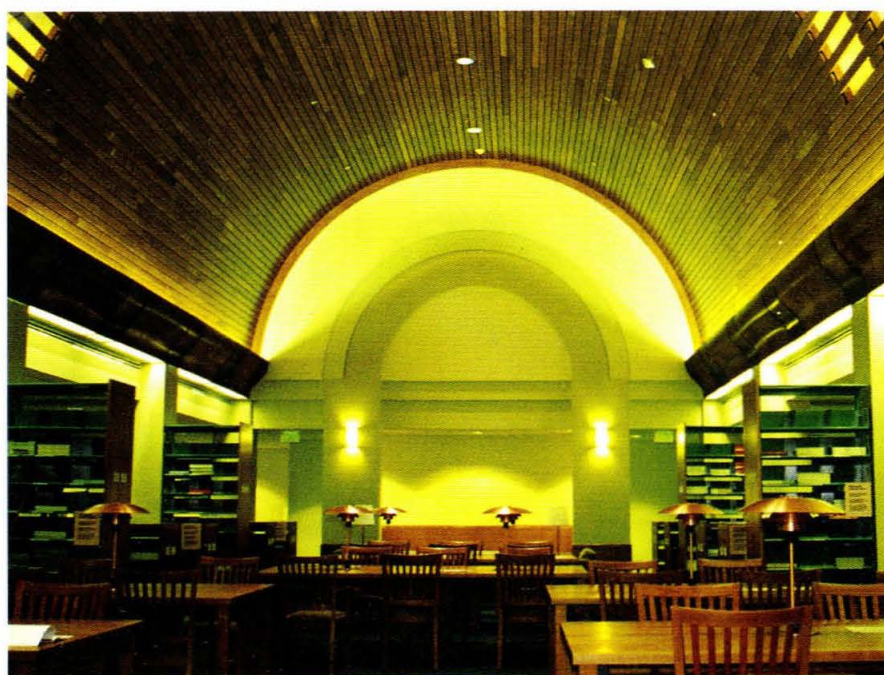
Right: Students enjoy the board food at Avery.







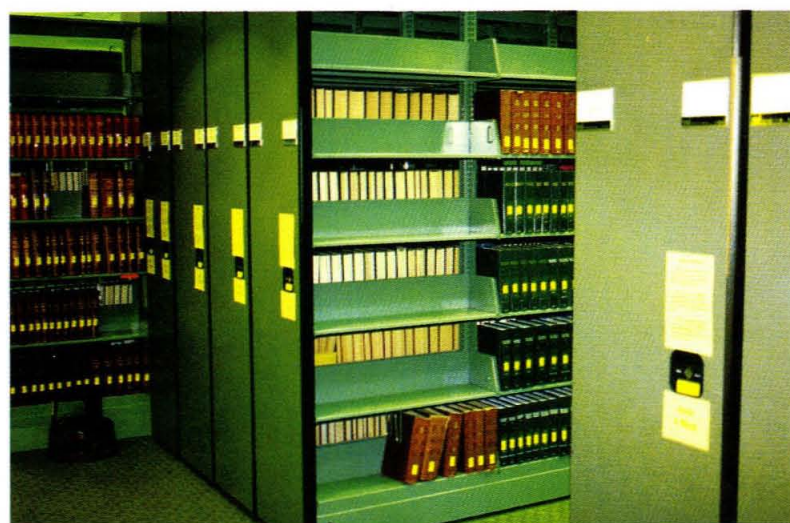
From its moving bookshelves to the laptops available for signout, Sherman Fairchild Library is a welcome addition to Caltech. Far more aesthetically pleasing than Millikan Library, the new building has taken the strain off of Millikan's stretched space. Funded by the Sherman Fairchild Foundation, the library makes full use of the card system also in place at Avery. Students and faculty can use their identification card to enter after normal hours, make photocopies, and check out books.



Top left: Sherman Fairchild Library awaits opening.

Middle: The handsome cherry wood barrel vault ceiling of the reading room is complemented by the brass reading lamps.

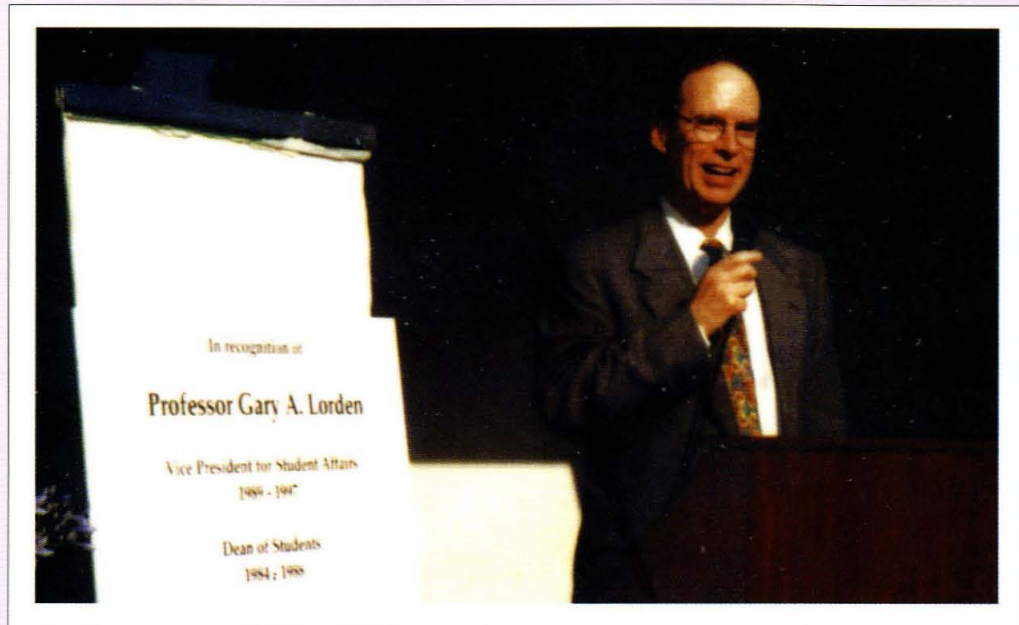
Bottom right: The marvelous sliding shelves of the periodical storage room.



# *and Sherman Fairchild Library*



# Good-bye, Professor Lorden,



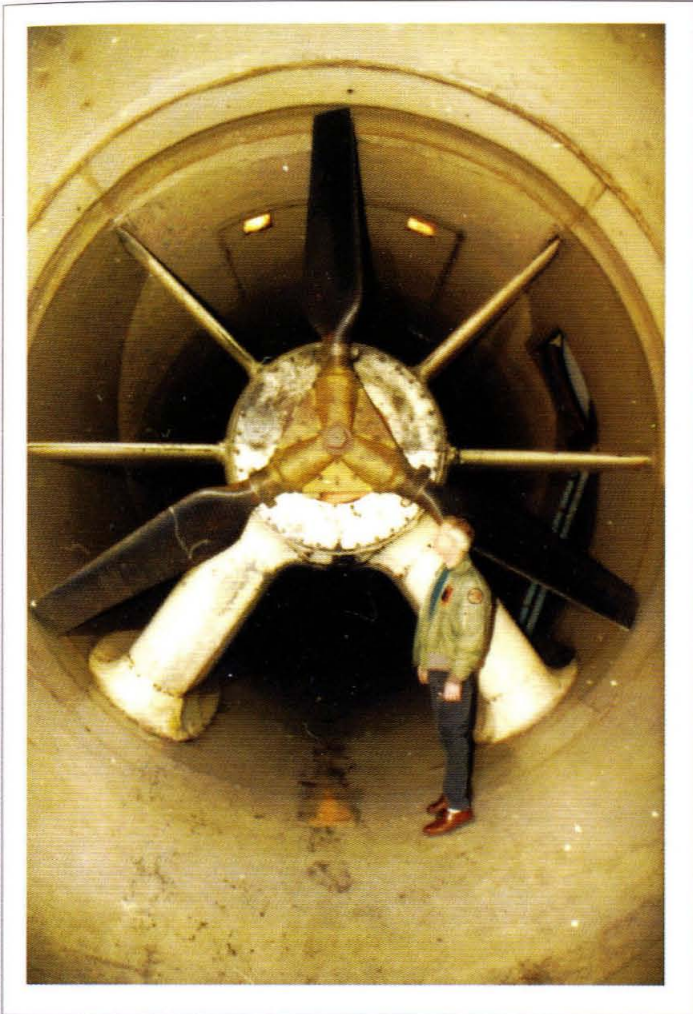
This year, both Vice President of Student Affairs Gary Lorden and Master of Student Houses David Wales stepped down from their positions.



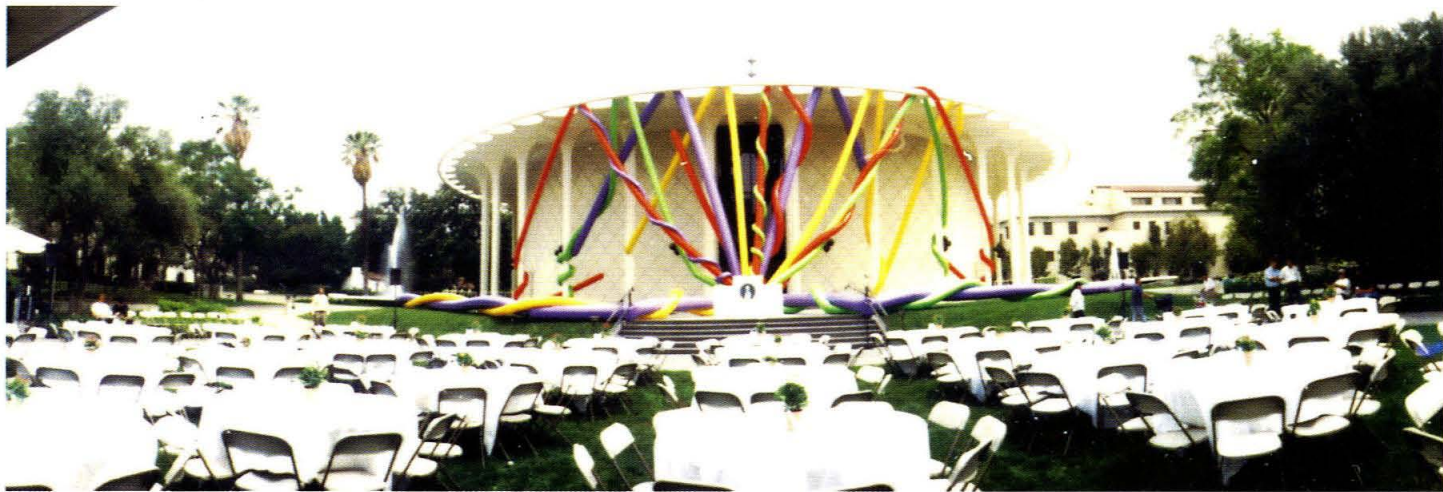
# Good-bye, Professor Wales!



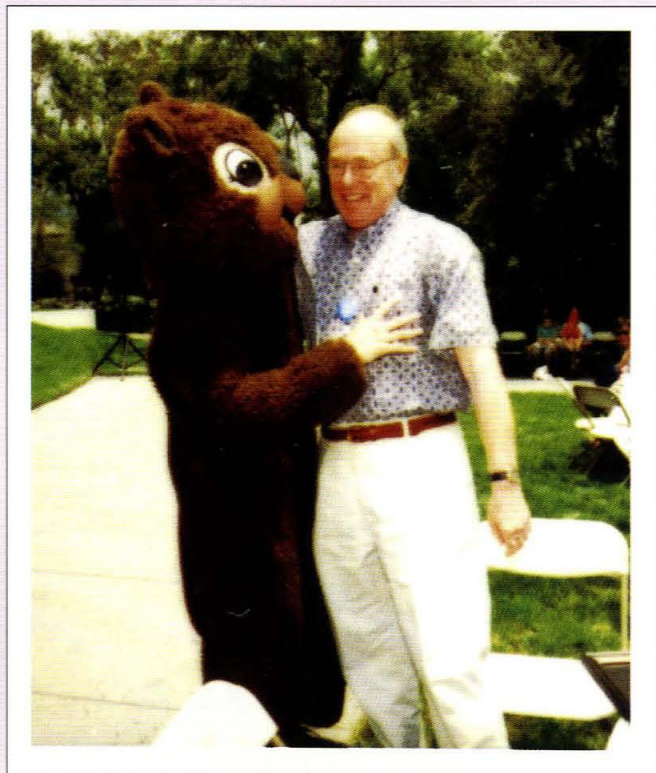
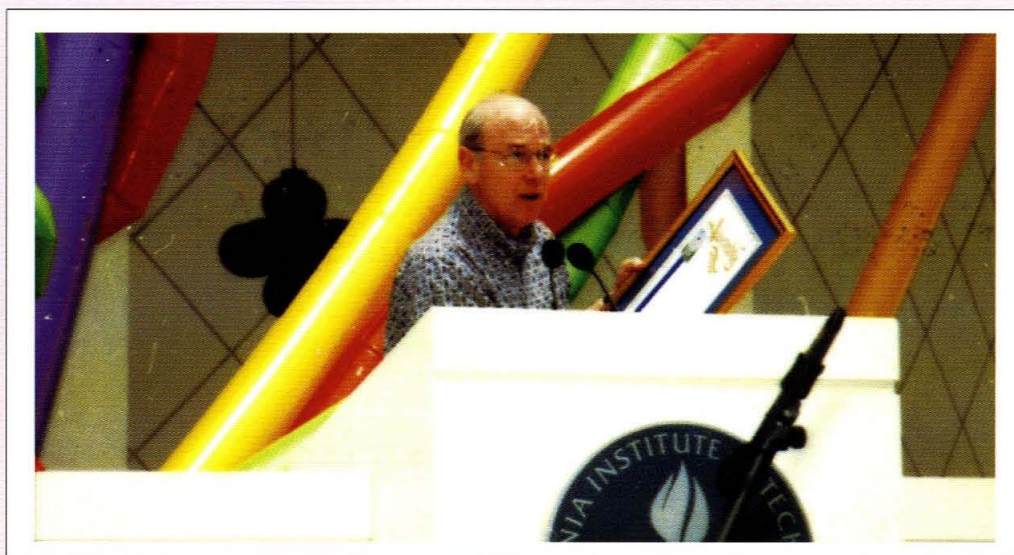
# Good-bye, Wind Tunnel!





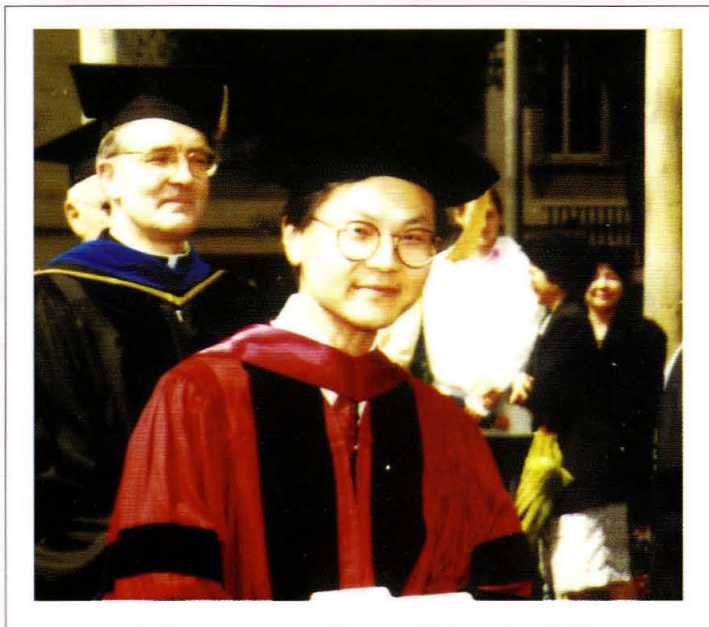


# *Good-bye, President Everhart!*





# *Good-bye, Seniors!*

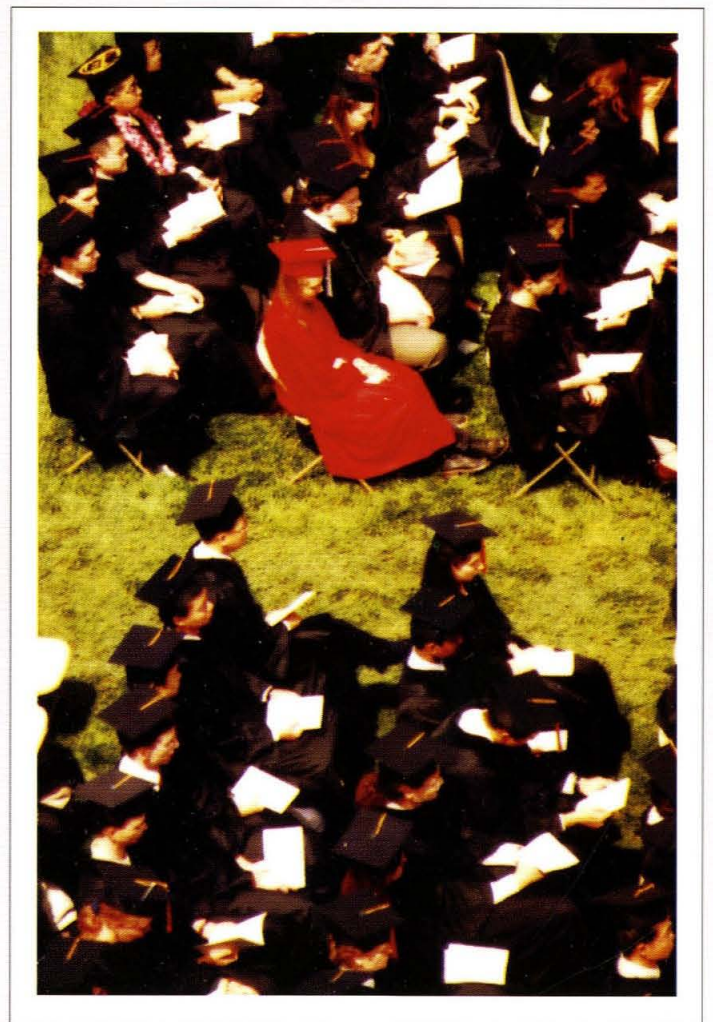
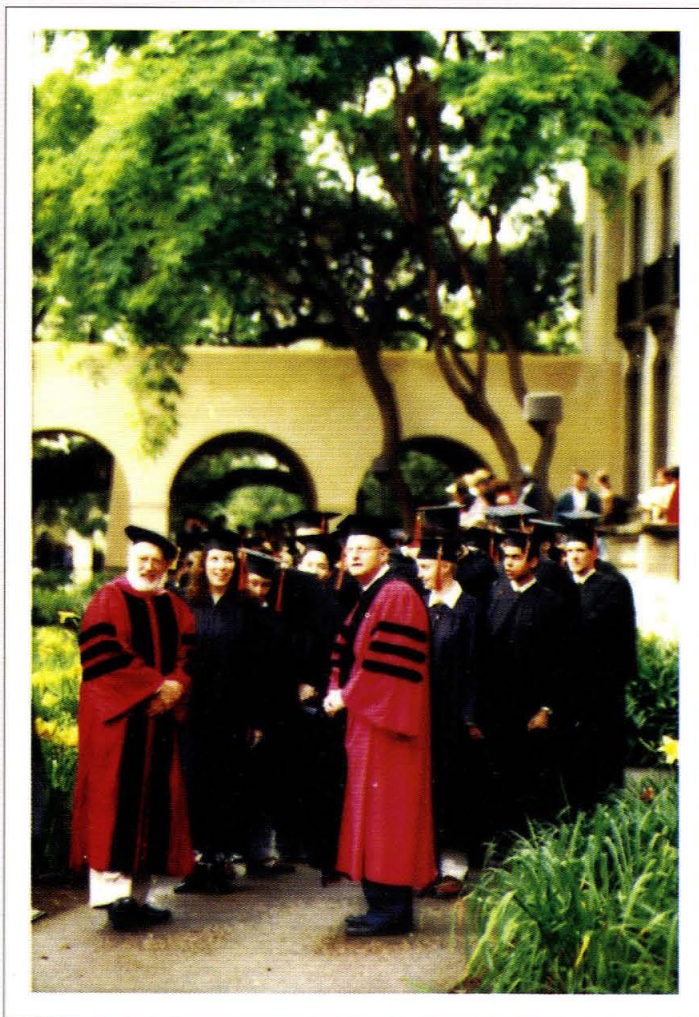


Dr. David Ho, AIDS research pioneer, spoke to the assembled graduates, parents, and friends.

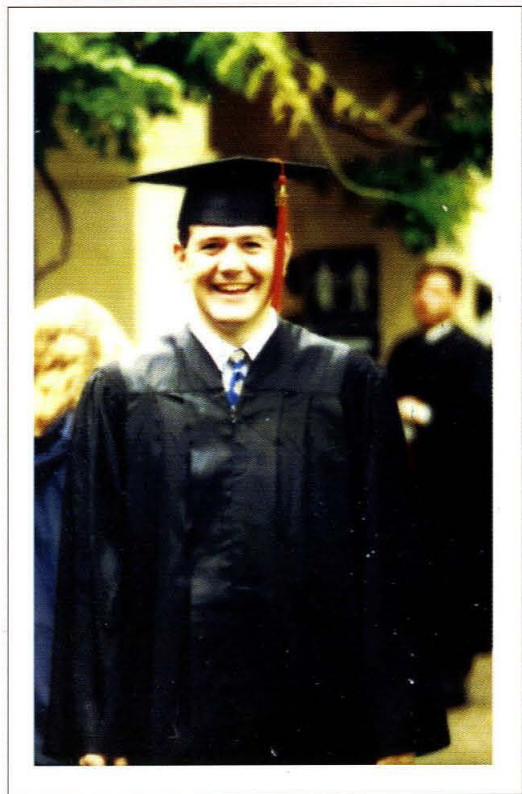
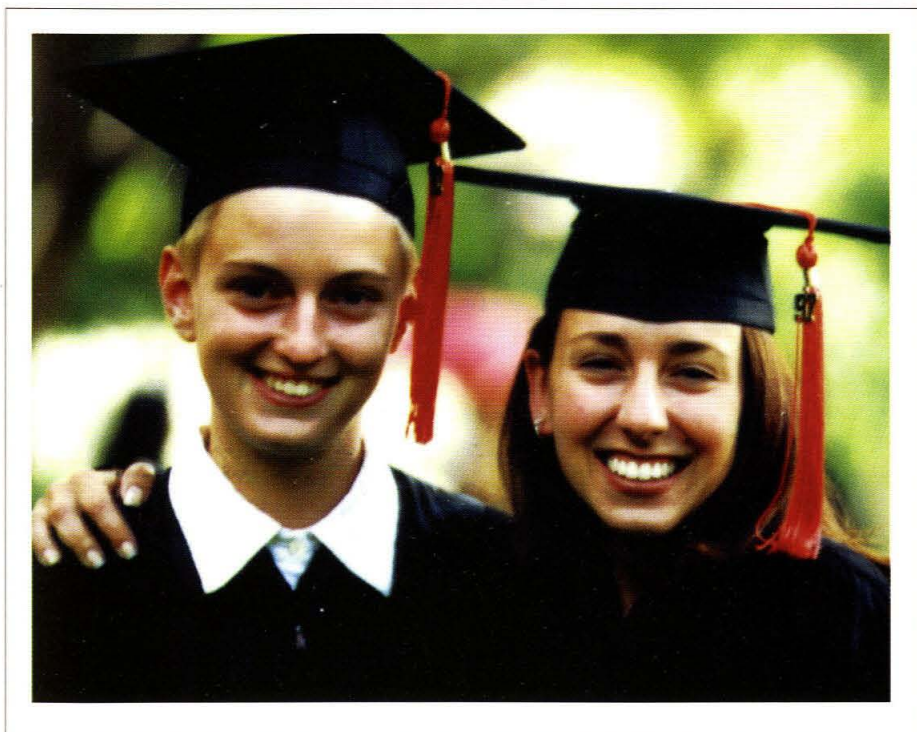
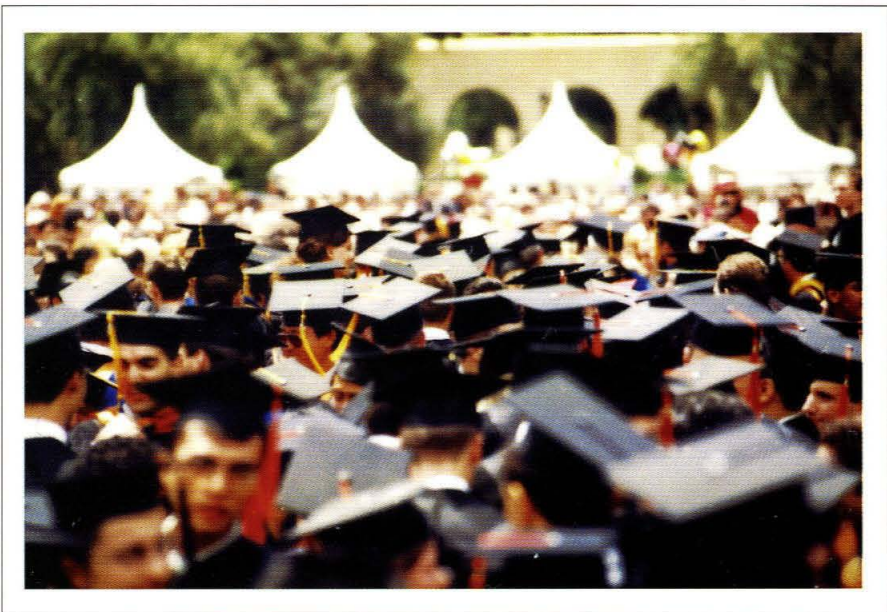
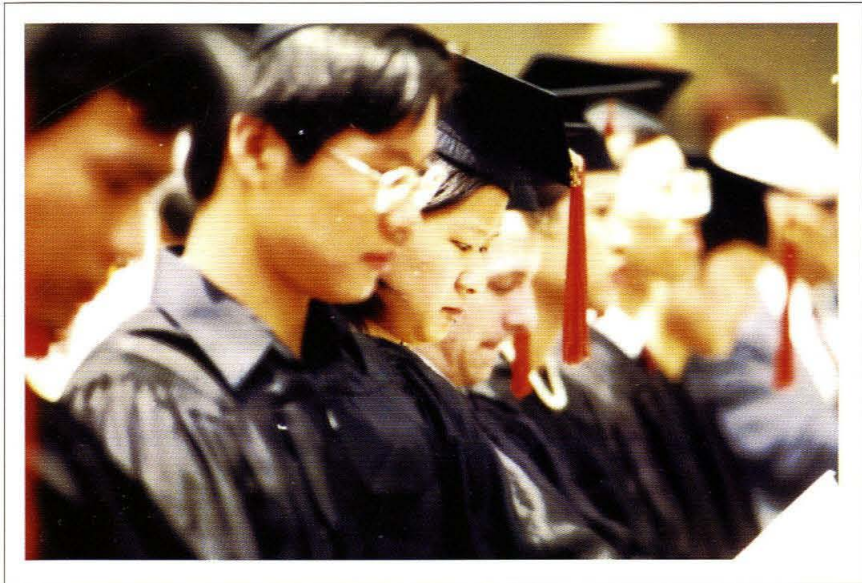


## *Commencement...*











# *It's Ditch Day, Frosh!*



Left: Tom Mannion, director of Campus Housing, declares Leigh Engen victorious in the Wizard of Oz stack. (Ruddock House)

Below: The candyland stack offers a chance to blow bubbles while completing tasks across campus. (Fleming Hovse)

Ditch Day: hallowed tradition of Caltech since 1931. This year it was May 16th. The object: seniors "stack" their rooms and underclassmen spend the day out of classes solving puzzles, acting out scenes and wreaking destruction to get in. Inside the stack is a bribe, a prize for completing the stack. If either the stack or the bribe fails to please the underclassmen, they can "counter-stack," providing a surprise for the seniors when they return at 5pm. Seniors spotted on campus between 8am and 5pm on Ditch Day run the risk of being duct taped to a tree.



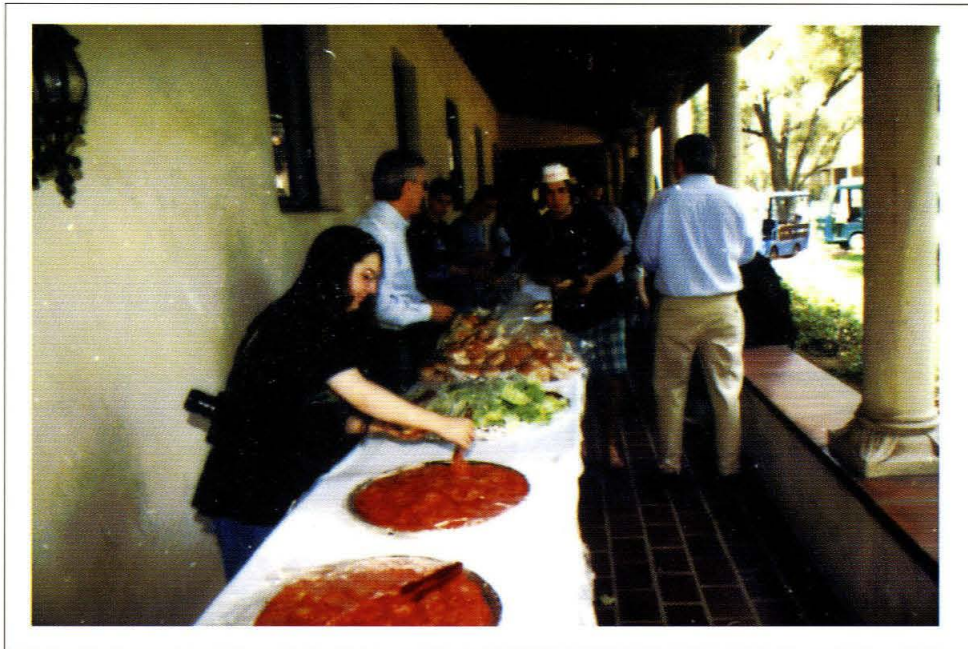
Left: It's not Ditch Day without a waterfight in Millikan Pond.





# *Lunchtime!*

Students, faculty, graduate students, and staff (is that Lee Reavis of TFM eating a burger?) chow down on the 666x666 In 'n' Out burger -- one sandwich with 666 meat patties and 666 slices of cheese. (Ricketts Hovse)

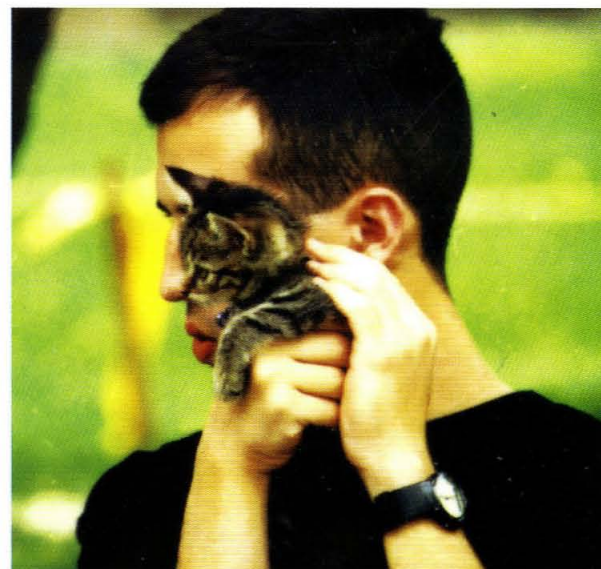




Right: The seventies return to campus with the Noon Concert by the Brady Bunch for the stack of the same name. (Page House)



Right: Ben Brantley takes a break with his furry friend during Ditch Day. (Fleming Hovse)



Right: Sean Watts chases Andy Cotter with a fun noodle during the mayhem in the Ricketts courtyard.







Left: Which decade is this, again?  
(Page House)



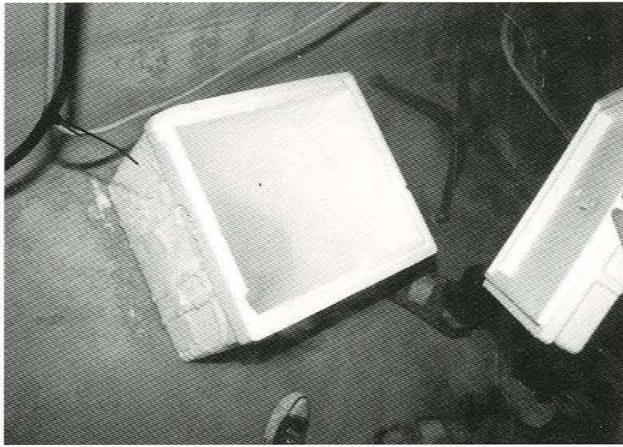
Left: Val Anderson and Autumn Looijen  
pose for a photo during the Communist  
Time Travel stack. (Dabney Hovse)



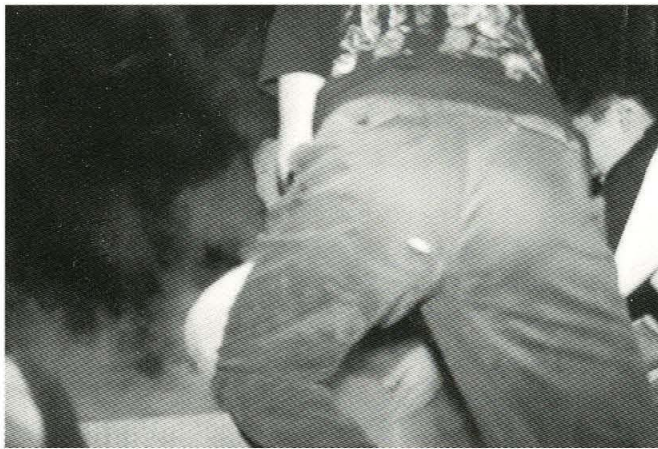
Left: Nicholas Breen and Erik Streed get to  
carry big sticks (actually Rangers' staffs)  
during the Babylon 5 stack. (Blacker  
Hovse)



# *Annual Pumpkin Drop*

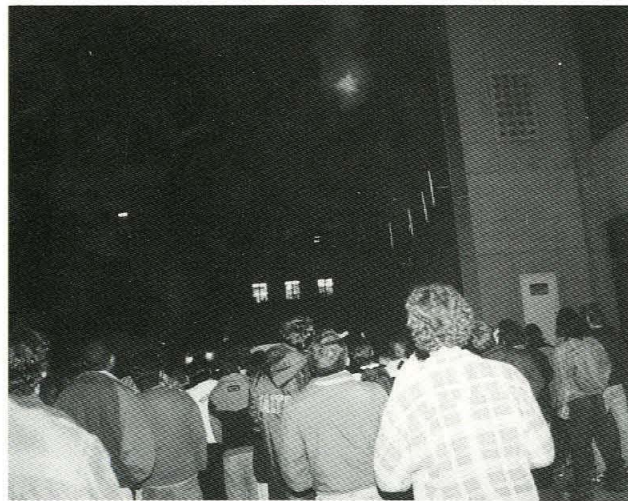


From the vat of liquid Nitrogen...

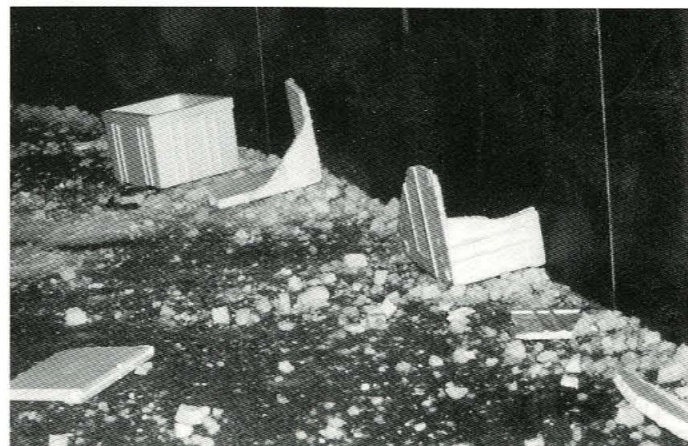


to the ledge...

over the edge...

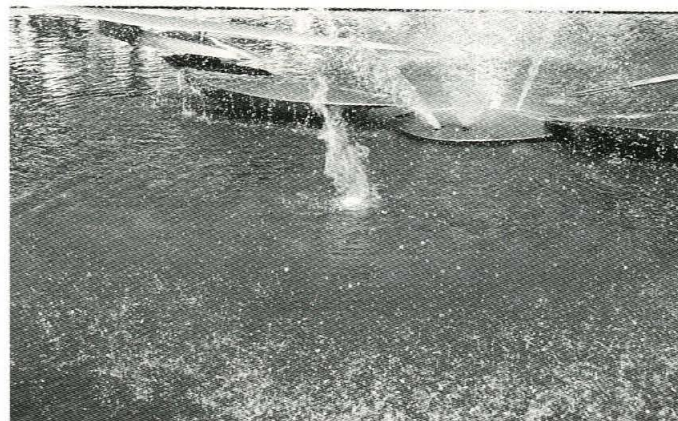
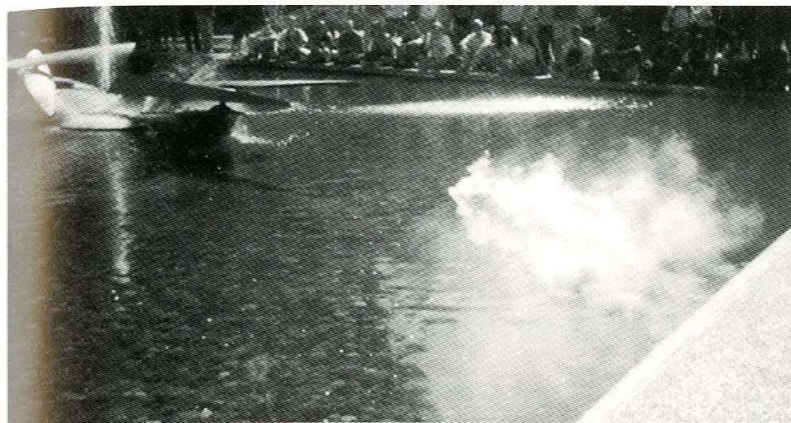


to the ground!





# *Annual Ponding of Nate*



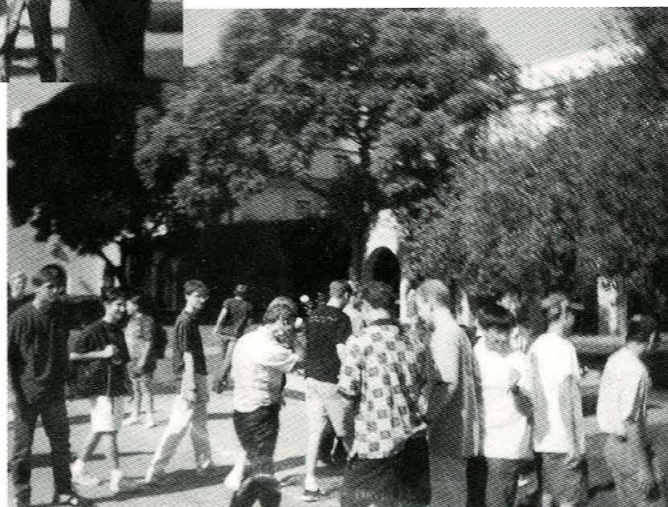
Sometimes Chemistry 1a students throw sodium into Millikan...



Nate knows it's his birthday...



So do his students...



And sometimes Chem1a students throw their prof into the pond!



Congratulations, Scott Noble.  
We are all very proud of you for this wonderful achievement  
upon your graduation from Caltech.  
Always follow your dreams and be happy.  
Love,  
Mom & Dad.

To John Mulcahy: A special son, brother, uncle, and grandson.  
You have: met a formidable challenge,  
achieved a remarkable goal,  
and demonstrated admirable courage and perseverance.  
We love you much, John.  
Congratulations! We are so proud of you.  
Ma, Dad, Julie, Joe, Anne & Julie Anne, Grandma & Grandpa L.,  
Grandma & Grandpa M.

To Rachel C. Weathers  
They said "...do you have any idea how smart she is?" But, that is  
the least of it. You dream with blueprints, you pull truth out of illusion  
effortlessly, you see to the heart of things and people and love them as they  
are and you fill us with so much joy and laughter that the skies lighten.  
You have our admiration, our respect and our deepest love.  
Dory, Mom, Chris and always M.

Congratulations Brian Jenkins!  
We are proud of you!  
Mom, Dad & Lisa.

Daniel Azuma

Congratulations on graduating from one of the premier  
universities in the world! Now, it's on to grad school.

When you were 3 years old, the librarian said to us,  
"You have a star there." And how right she was!  
Jack, we love you & praise God for you, Mom, Dad,  
Tom, Ally  
Also, love from grandparents, aunts, uncles, cousins.

Congratulations  
Mark Stewart

Mom, Dad & Anne.

Sincere congratulations to tIM, who, as a baby, asked  
from the carseat, "Does space end?" We hope you're a  
little closer to the answer. With love and support,  
Mom, Dad & Janet.

Congratulations and Best Wishes to Caltech graduate  
Carter M. Moursund

Mr. & Mrs. A. A. Moursund.

Graduating?  
"Surely you're joking, Mr.  
Bacon!"

Dave,  
**CONGRATULATIONS!**  
Please write home...and send us a picture.  
Love,  
Mom, Dad, Mark & Flurry.

JASON HAYCOX HEISS

Congratulations

Love,  
Mom, Dad, & Janet

Congratulations, Emily, on your great achievement. We're all  
very proud of you.

Mom, Dad & Marica Paddock, Mom & Dad Rempel, Nick &  
Margie, Rebecca Johnson, and your five grandparents.  
...and your husband who loves you dearly, Aron.

Congratulations Paul Rubio!!

Mom and Dad are **so very proud of you**, and I know that "Papanny" is smiling  
down from heaven at you! You've achieved your biggest accomplishment to date.  
You've scaled the highest mountains and the world is yours for the taking!! Good  
luck and God bless you and take care of you all the days of your life!  
Love, Mom, Dad & Jason.

To Phil Sutton, great son and brother:

Congratulations on a job well done.

Love,  
Mom, Dad, Beth & Andrew.

Ted Knows!  
Now he has a degree from Caltech to prove it!  
Congratulations, Ted Laurence  
— your family.



**TO: AARON MATZ**  
**OUR HEARTIEST**  
**CONGRATULATIONS ON YOUR**  
**EXTRAORDINARY**  
**ACHIEVEMENT &**  
**ACCOMPLISHMENT. MAY YOU**  
**HAVE THE SAME**  
**OUTSTANDING SUCCESS AT**  
**MIT.**

**LOVE: YOUR FAMILY.**

It has been an  
honor and a  
privilege to raise  
you and share your  
life. You will always  
be the most  
important person in  
my life — Mom.



MEL☆MEL☆MEL☆MEL☆MEL☆MEL☆MEL☆MEL☆



**CONGRATULATIONS!**

You've come a long way from  
green vitamins  
and blanket fuzz.

Love,  
Lee, Big Al, and LA.

MEL☆MEL☆MEL☆MEL☆MEL☆MEL☆MEL☆MEL☆

Jen Holland: Mom, Dad & Sis offer congratulations along with your 4 great aunts, 2 great uncles, 7 aunts, 6 uncles, 23 first cousins, 39 second cousins, and innumerable third and fourth cousins.



Graduation is: better than just starting



...better than first day at kindergarden



...better than a grand slam plus a triple play



...better than all the wins

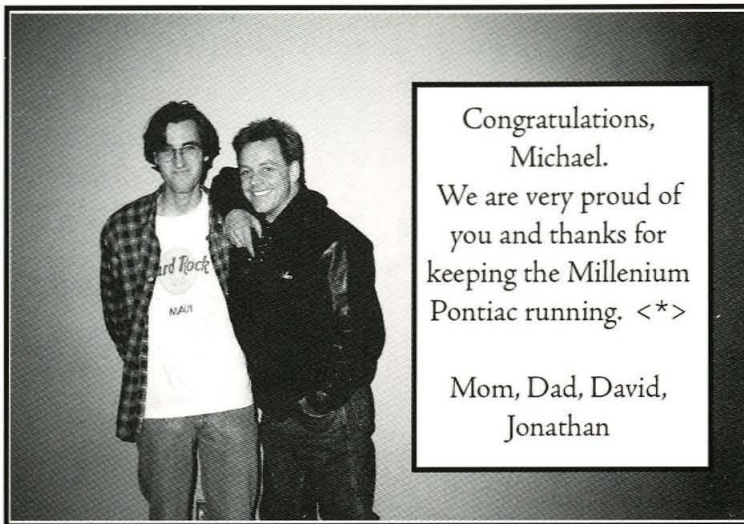


...better than going clean over six feet



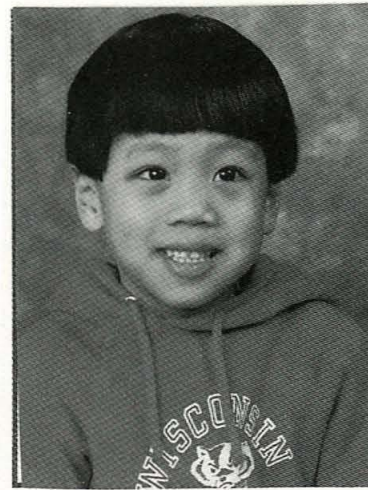
You made it!





Congratulations,  
Michael.  
We are very proud of  
you and thanks for  
keeping the Millenium  
Pontiac running. <\*>

Mom, Dad, David,  
Jonathan



Dear Winston:

**Congratulations on  
your achievements!  
You are the joy of  
our life! We are  
very proud of you.**

**Love, Mom, Dad  
and Jennifer**



Aaron, As a small child your wonderment of learning appears,  
Journeyed you through Mark, Bannister, and the Bothell High years,  
And on to Westinghouse & Duracell, honors to the sky.  
Landing you at Caltech echoed by your parents' cry,  
How much do you say? What's this, we have to pay?  
But You came through as promised in 4 years, Hooray!!

Love & admiration, Mom xxx

PS. I am so proud of you, Aaron. I would have bought you a whole page if  
you were coming back to Washington!! Love, Dad.



Random, space filling picture: Blue flash not visible due to black and white photo processing.



# *SURF's Up!*



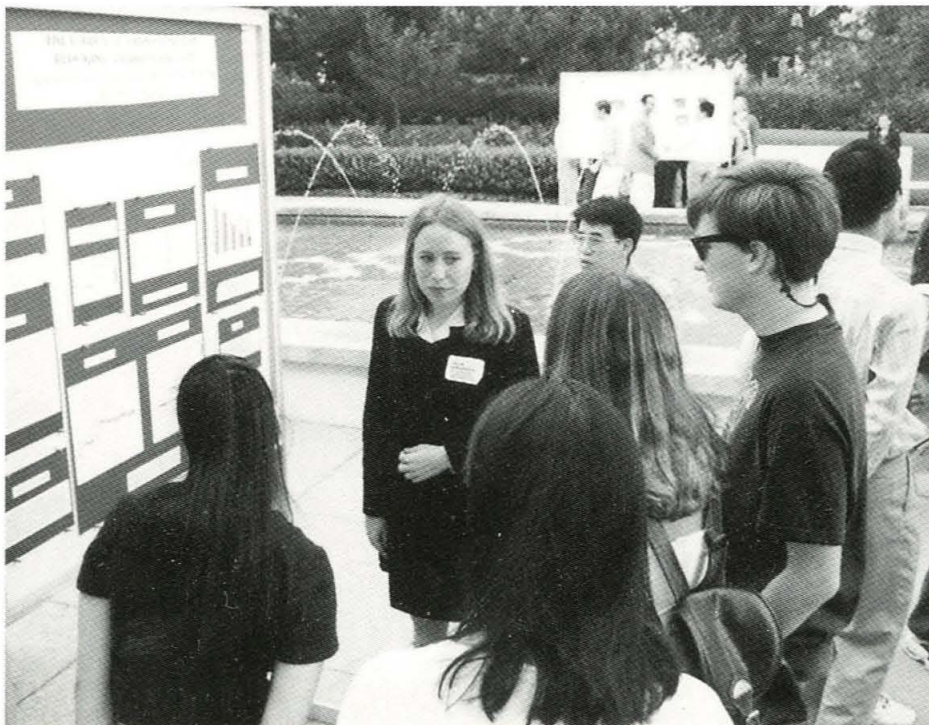
Above, left to right: Carolyn Casey, Carolyn Merkel, Susan Clark of the SURF Office.

Most students choose Caltech because of the opportunities to do research as undergraduates. The SURF program was established to encourage the interaction of students and faculty around a research problem of mutual interest. In collaboration with their mentors, students write proposals for the work they want to do. A faculty committee reviews the proposals, and awards are made on the basis of reviewer recommendations. Students do their research projects during the summer and, at the conclusion, they submit a technical paper and give an oral presentation at SURF Seminar Day. Seminar Day is modeled on a professional technical meeting with more than 20 parallel sessions and poster presentations.

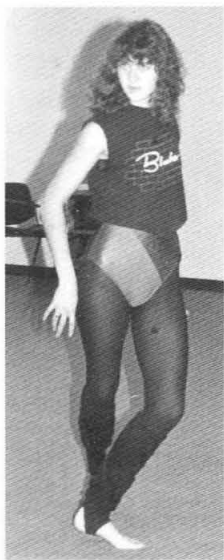
SURF students participate in many activities including weekly research seminars, professional development discussions, social and cultural activities. Students also may attend conferences such as the National Conference on Undergraduate Research or the Southern California Conference on Undergraduate Research, as well as professional conferences with their mentors. The Doris S. Perpall SURF speaking competition awards prizes to the three best oral presentations.

— Carolyn Merkel

Left: Andrew Huntington explains his project. Below: Cailin Henderson talks about hers.







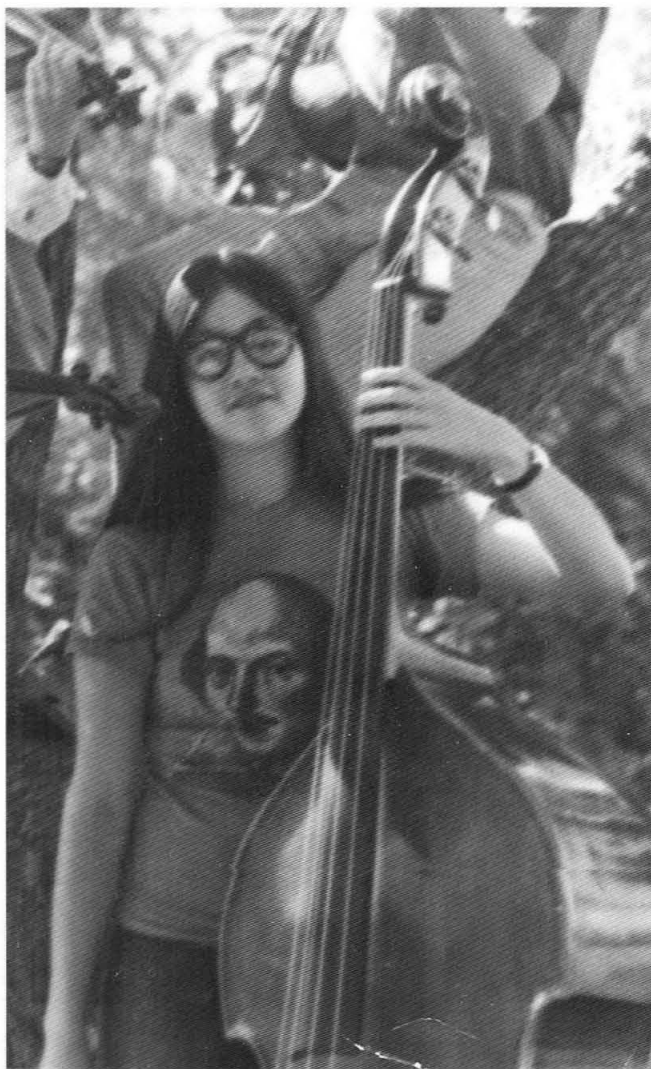
## Let's give a cheer — 25

"The Board of Trustees has now approved girls, in pri

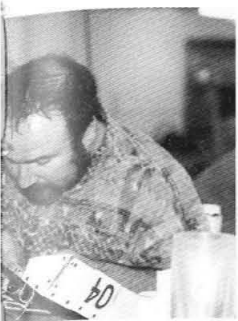
In 1964, Caltech realized that student morale was quite low. Many students were transferring out of Caltech altogether. Raw Owen became the chair of an ad hoc committee to make suggestions on how to approve life at Caltech. Their first decision was to make freshman year pass/fail. Two years later, when they met again, they suggested admitting women to Caltech.

The administration and the Board of Trustees finally decided to admit women with the incoming class of 1970-1. They had taken all necessary precautions, however. To allay the fears of those who thought that women would be taking away valuable spaces from male students, they enlarged the class from 200 to 220 students.

The first year went well, and it wasn't long before all were accepted as Techers, and not given leeway as women. They participated in showering wars, just like everyone else. At some point in their time at Caltech, the school psychologist took each woman side to side to ask if they had "lost their identity." But instead, they were reveling in the intellectual atmosphere of Caltech.







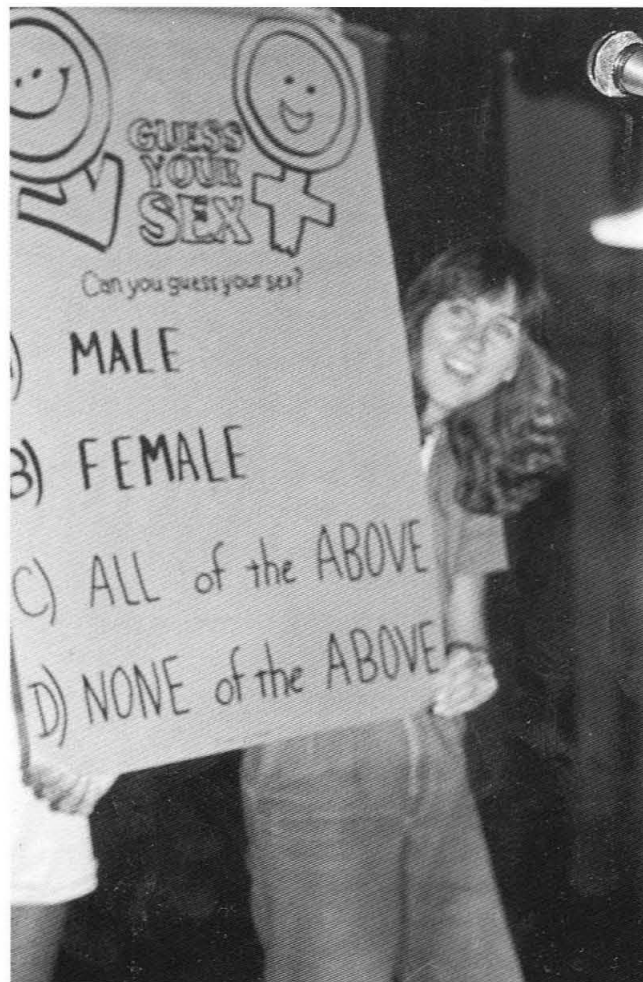
# years of women here!

nciple." - The California Tech, November 7, 1968.

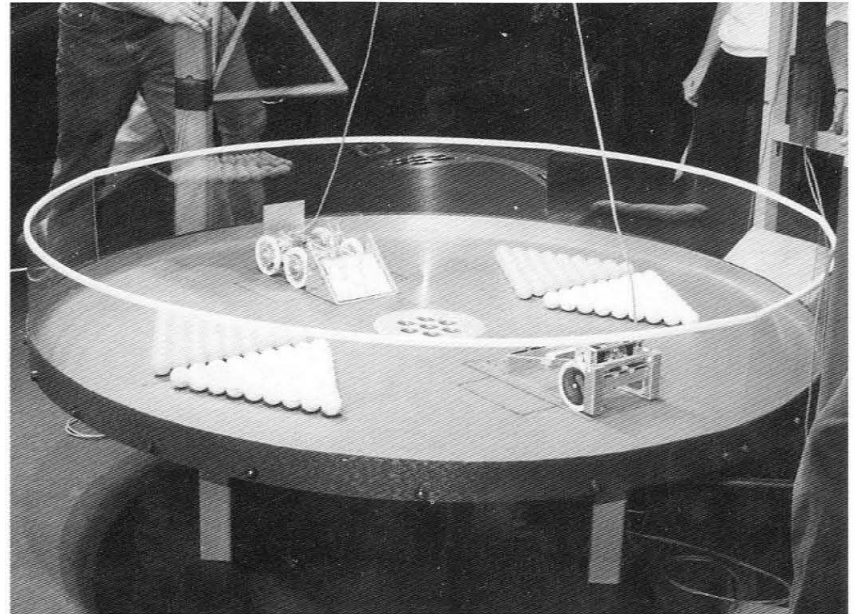
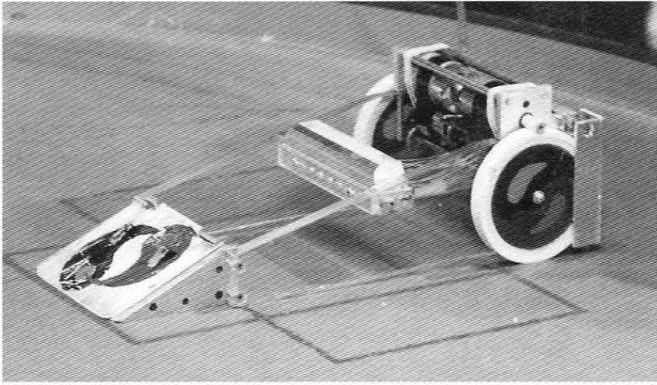
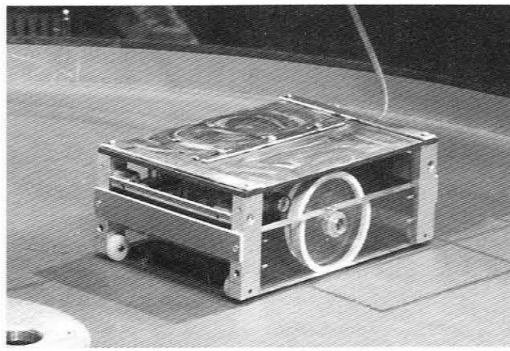
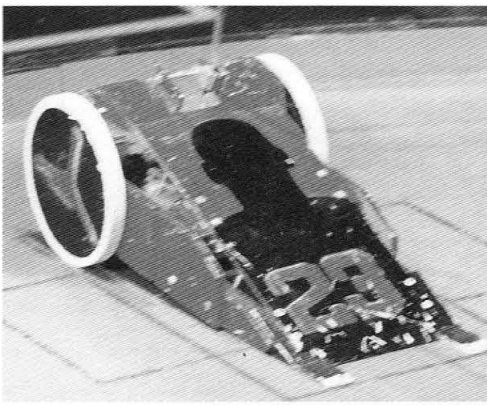
Student reactions, as shown by this article from the January 22, 1970 Tech, were equally entertaining:

"I set myself to the task of investigating the file of female applications received by the Institute to date. Let me hasten to reassure you, there are indeed some good-looking wenches in the lot. And a large number of wretched photographs, from which nothing definite can be concluded. There are also a few girls who, off their board scores and grades, figure to be sure admits. I saw three of four of these and there are a dozen or more who figure to have a good chance of admission.

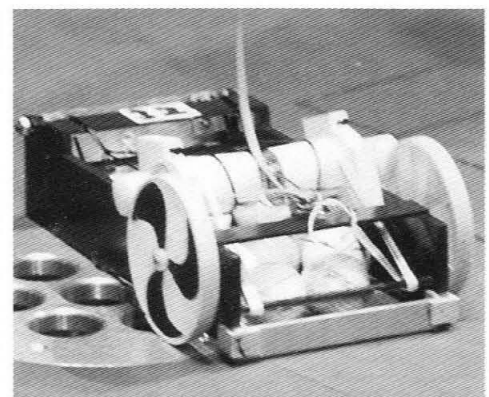
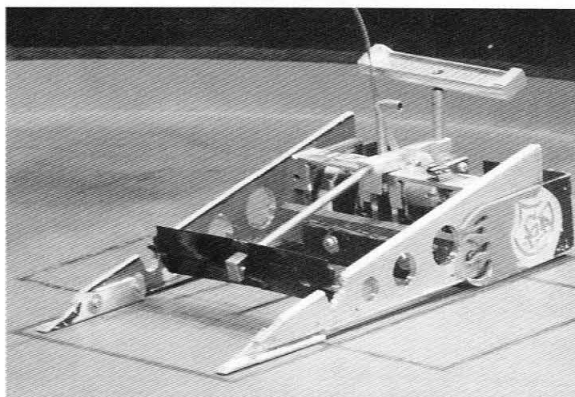
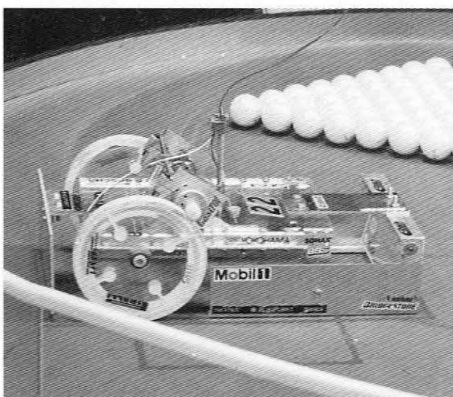
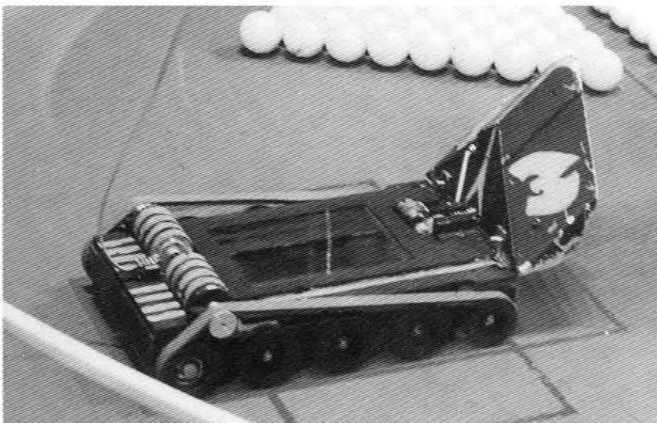
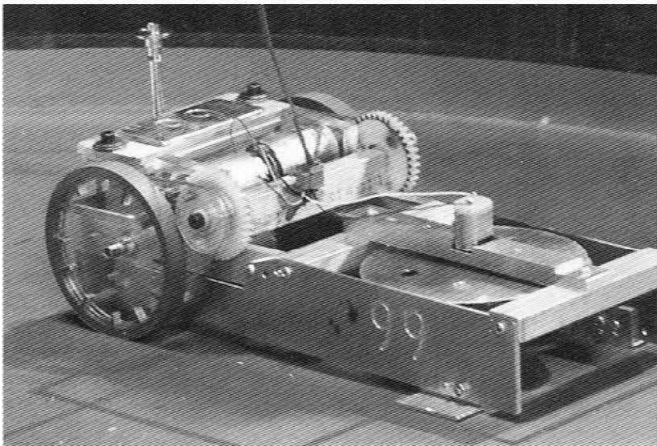
For all of those among you who are interested in figures, the intersection of the set of good-lookers and the set of admissible candidates is non-zero."



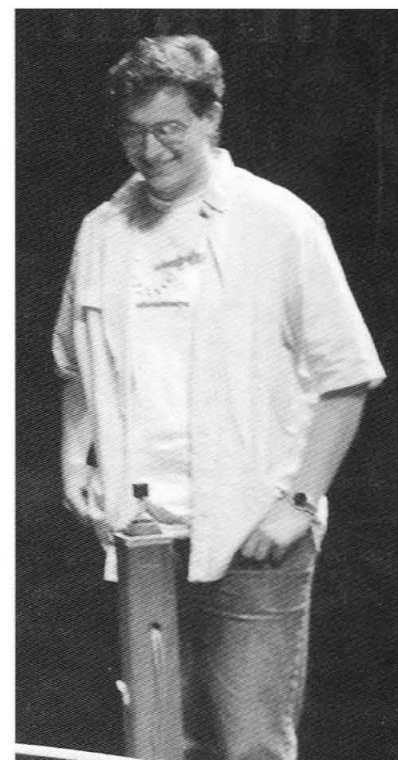
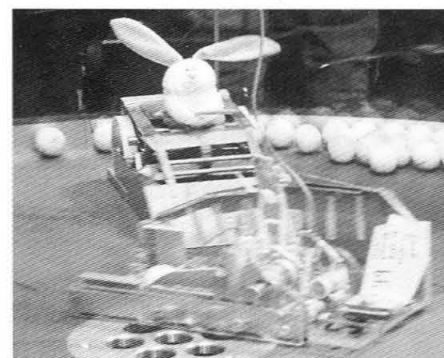
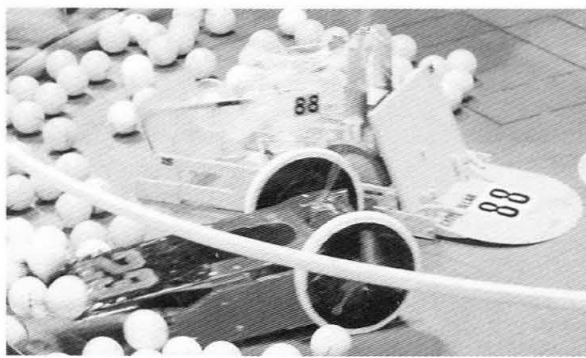
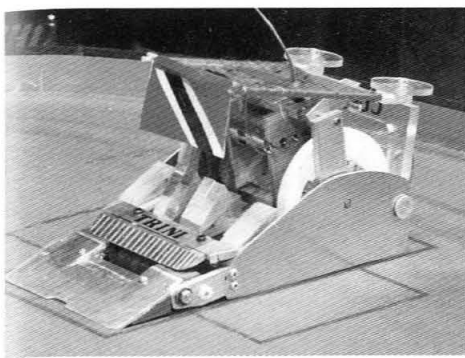




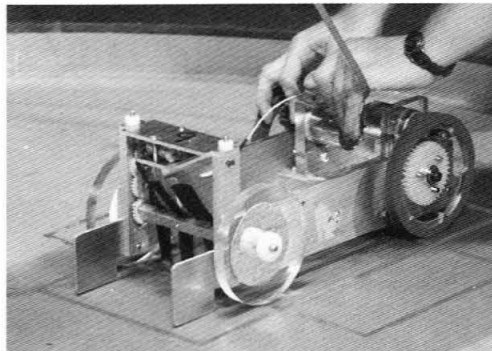
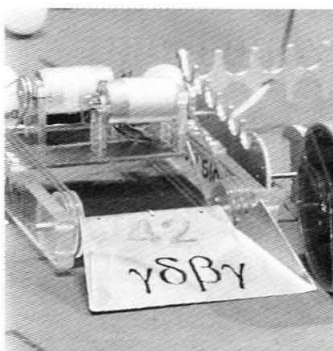
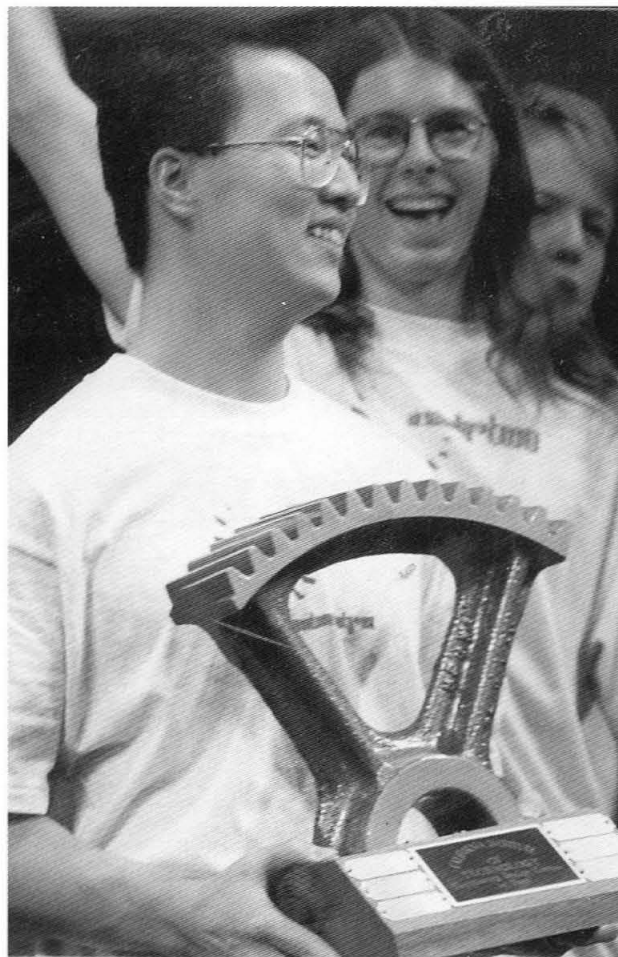
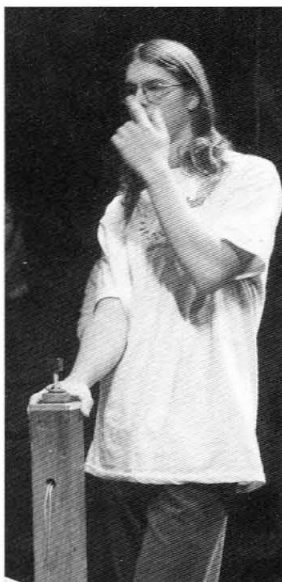
Above: The setup. Below: in competition. Around the edge: the entries. To right: the competitors. Bottom right: the winner, Eric Jan, and Seth LaForge, who came in second.





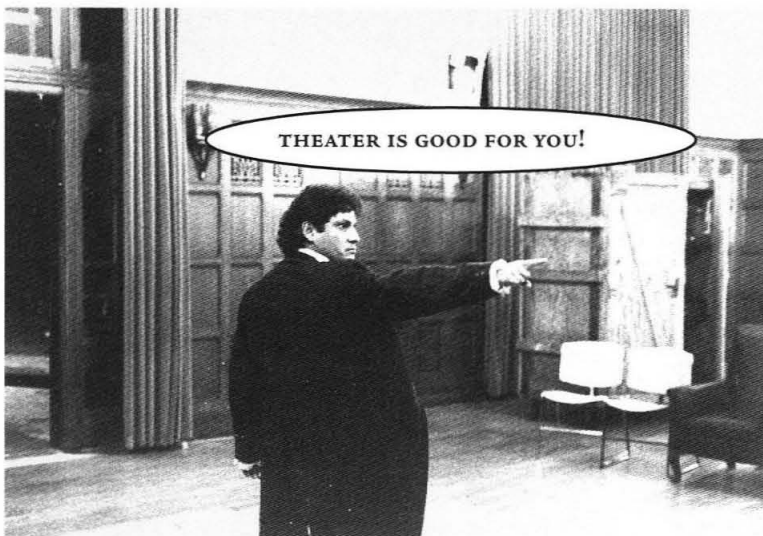
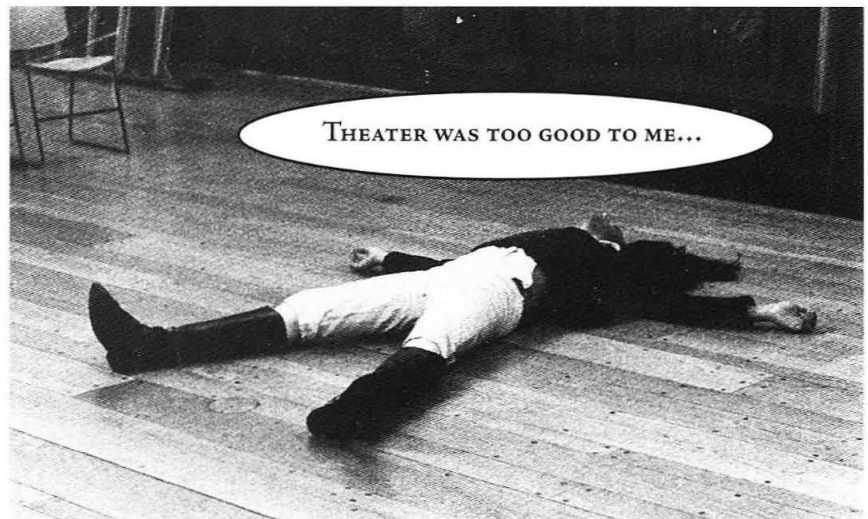
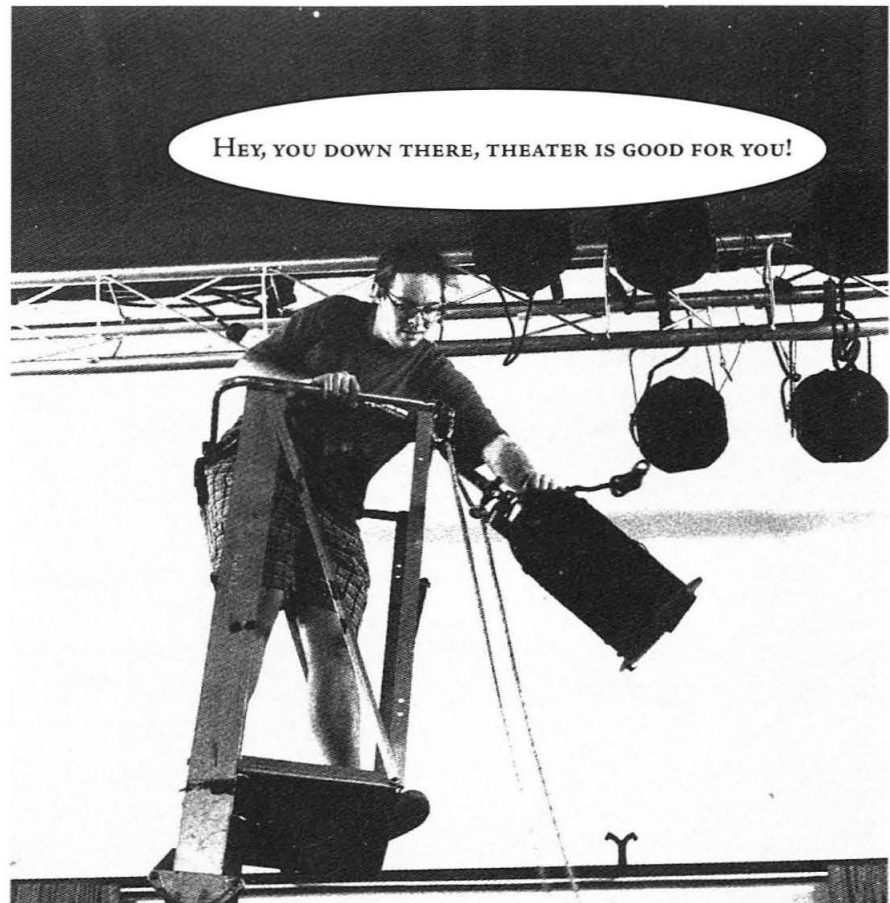
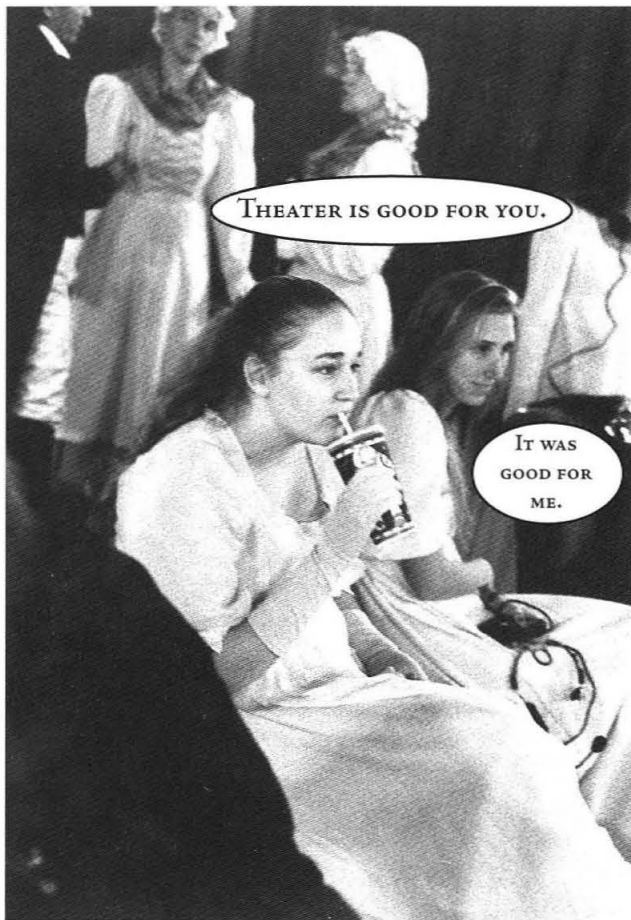


ME 72: 12 units, (3-8-1); first term. The design process in engineering, stressing the creative aspects, especially problem definition and concept generation as well as visual thinking and graphic communication. Techniques in analysis in engineering systems learned previously will be applied. An engineering design contest will be held and will include the design, fabrication and operation of a device to compete with similar devices designed by other students.

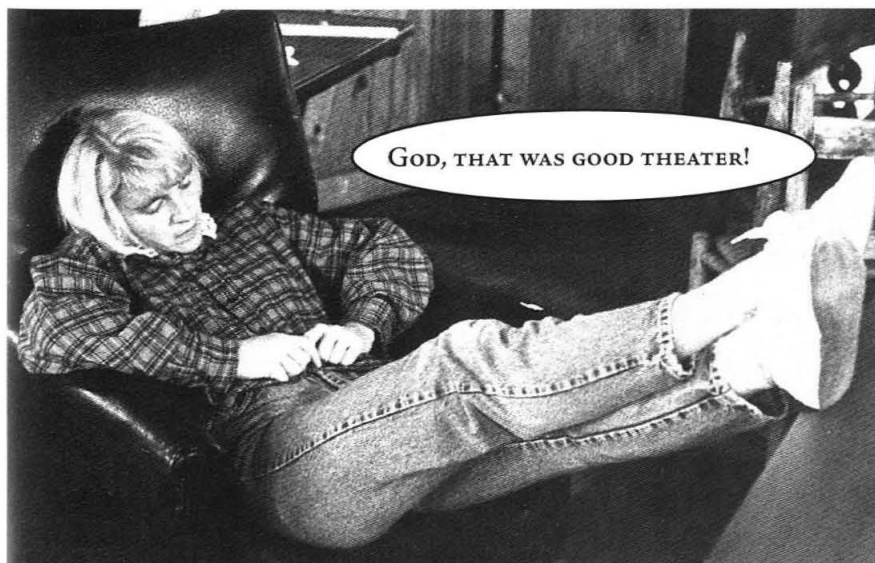
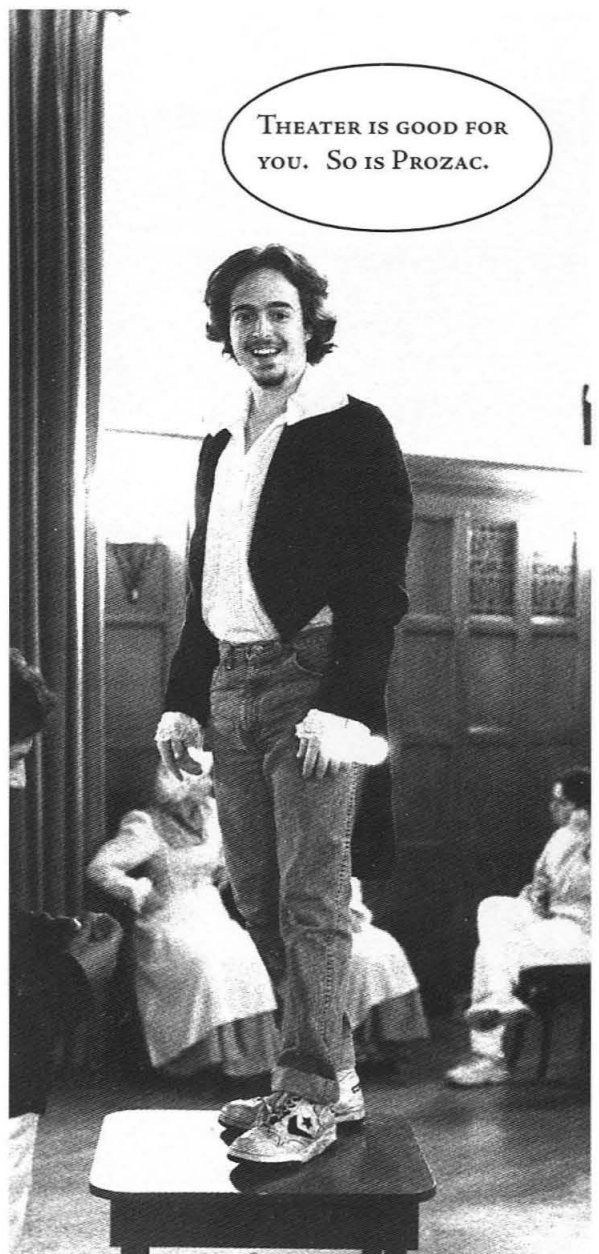
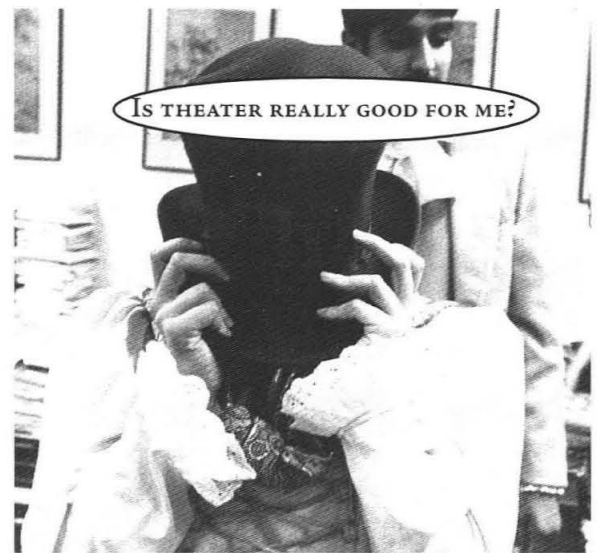




TACIT congratulates all the graduating seniors — and remember...

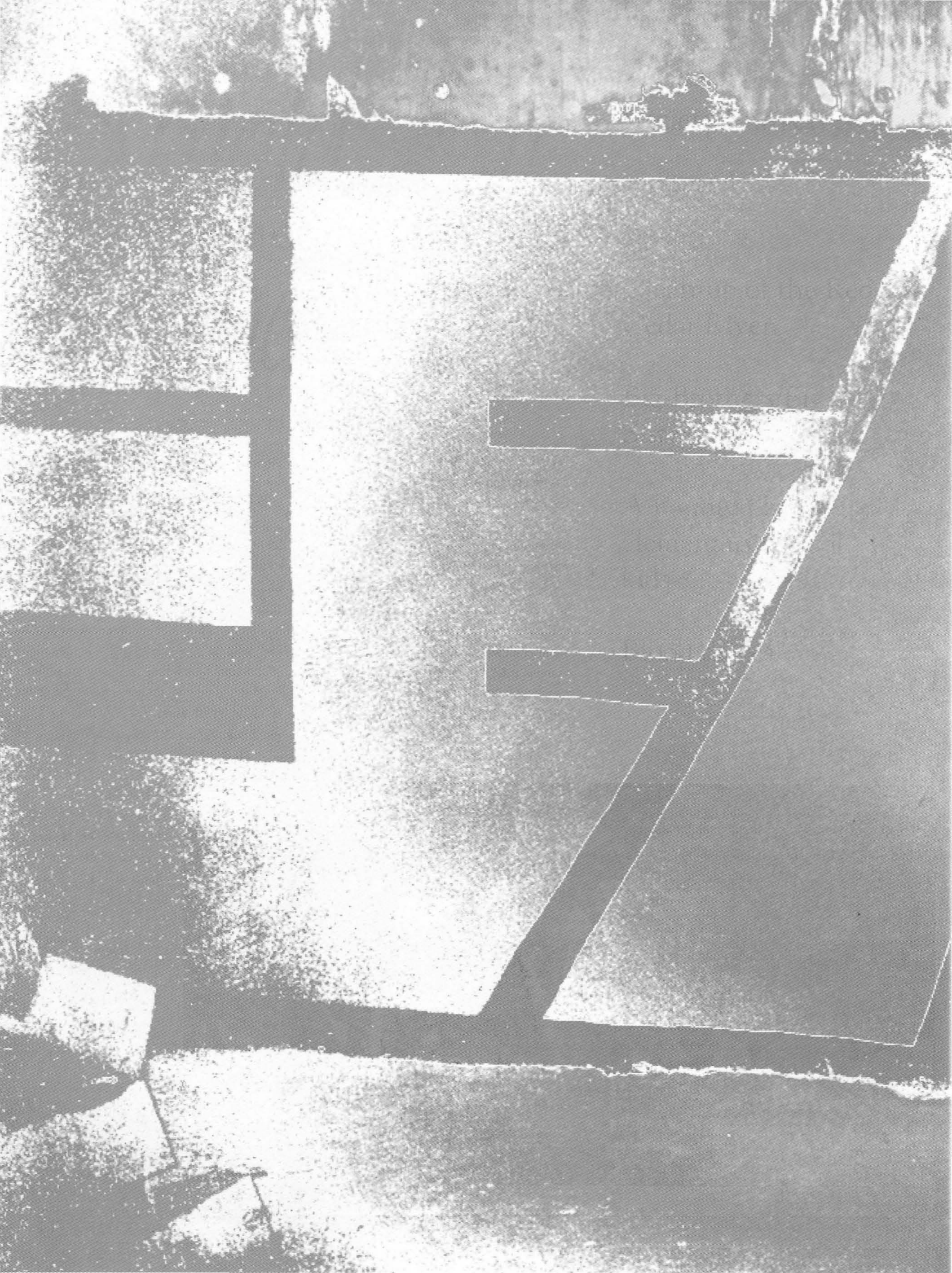






Love,  
Shirley









# ADMINISTRATION



# *The President's Office*



Left to Right: Linda Riggall,  
Susi Martin, Mina Brown,  
Mary Webster, Thomas  
Everhart, Nancy O'Connor

# *The Office of the Provost*





# *Student Affairs*



Left to Right: Stan Borodinsky, Jane Thornton, Sharyn Slavin, Jerri Greene, Gary Lorden



# *Dean's Office*



Left to Right: Suzette Cummings, Jean-Paul Revel, Barbara Green, Sandra Estes



# *Registrar*



Left to Right: Rebekah Sitis, Kate Finigan, Judith Goodstein, Gloria Brewster, Linda King



# *Admissions Office*



Left to Right: Scott Jung,  
Karen Carlson, Charlene  
Liebau, Dina Figueroa,  
Sabrina Ramos, Charlie  
Aller, Mignon Matthews,  
Charlie Aller

# *Financial Aid Office*



"Dictator the Cat"

Left to Right: David Levy,  
Isabel Cobos, Eva Whitsett,  
Cheryl Hanson, Boyfriend  
the Cat, Becky Bernudes





# *Career Development Center*

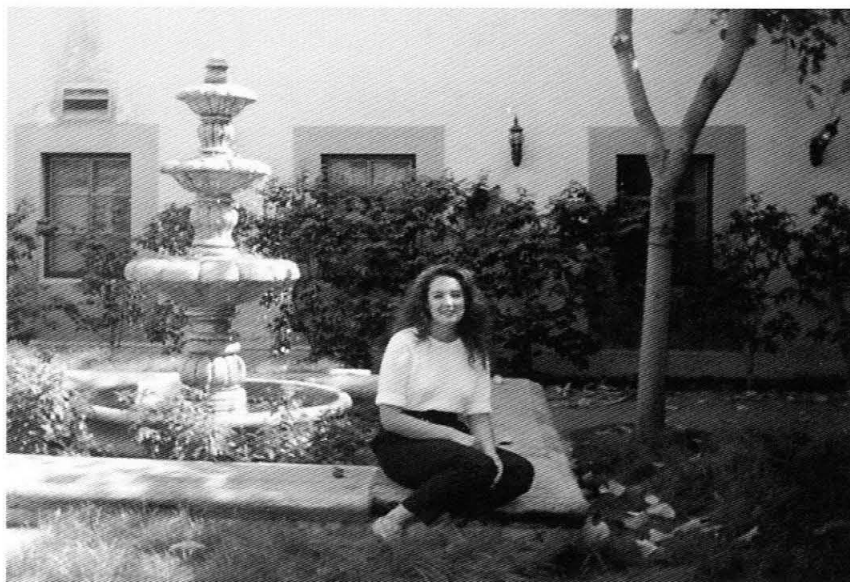




# *Total Food Management*



## *Student Activities Center Coordinator*



Gina Armas



# *Housing*





# Subboat Problem



$$\alpha - 180$$

$$F_w = F_a \sin(b - (\alpha - 180))$$

$$b > \alpha - 180$$



COURSE SEC

CH 001B	01	GENERAL CHEMISTRY
CH 003A	03	FUND TEC EXPER CHEM
HUM009B	01	INTRODUCTION TO ASIA
MA 001B	12	PROB & CALCULUS VAR-
PH 001B	08	CLASS MECH ELECTMAGN
PH 106B	01	TOPS IN CLASSICAL PH

FACULTY

S/A/C  
T

$\alpha - \pi$

$2 + 6 - \pi + X = \#$



# Biology



Back (l-r): Scott Fraser, Richard Anderson, James Strauss, William Dunphy, Ray Deshaies, Kai Zinn. 3rd row (l-r): Masakazu Konishi, David Anderson, Gilles Laurent, Pamela Bjorkman, Giuseppe Attardi. 2nd row (l-r): Mel Simon, Charles Brokaw, Erin Schuman, Judy Campbell, Christof Koch, Jean-Paul Revel. Front (l-r): Elliot Meyerowitz, Ed Lewis, Norman Davidson, Paul Patterson, Barbara Wold, Seymour Benzer, Paul Steinberg.

The Biology Department at Caltech has experienced rapid growth in just a few decades. Back in 1951, all of Biology was housed in Kerckhoff Laboratory and a cluster of small plant laboratories on the north side of San Pasqual. Back then, all science majors at Caltech were required to take Bi1. The importance of DNA was just beginning to be appreciated, and the function of RNA was unknown. Since then, Biology has expanded to include research conducted in not only Kerckhoff, but also Alles, the Beckman Institute, Beckman Behavioral Biology, Braun and Church laboratories. Bi1 has returned; now all students must take it to graduate. Requirements involving biochemistry, genetics, and neurobiology insure that biology majors are well prepared in their field when they graduate from Caltech. Many undergraduates have the opportunity to take Bi22, which allows them to receive research units for doing research with a professor of their choice. One of the most significant events has been the increasing emphasis on neuroscience, which now represents about half the effort of the division. In addition, Dr. Ed Lewis was awarded the Nobel Prize in 1995, contributing to the excellence of the department.

—Dr. Charles Brokaw



# Chemistry & Chemical Engineering



Back (l-r): Walter Schroeder, Doug Rees, Nathan Lewis, Robert Grubbs, Andy Meyers, Jack Beauchamp, Erick Carreira, Aron Kuppermann, Fred Anson, Rick Flagan, John Bercaw, Vince McKoy, George Gavalas, Zhen-Gang Wang, Dennis Dougherty. Front (l-r): Jackie Barton, Barbara Imperiali, John Brady, Peter Dervan, Harry Gray, Sunney Chan, Mitchio Okumura.

The Chemistry Department at Caltech has a long history of excellence in education and research. Annual ponding of Professor Nate "Fozzie" Lewis in Millikan Pond by his Chem1a students on his birthday (luckily enough in the middle of the first term) has become a tradition. Although Caltech has long had a reputation for excellence in chemistry in the areas of molecular structure and chemical bonding, the focus of Chemistry has been shifting both toward materials chemistry and to links between biological sciences and chemistry. Professor Lewis has met some success in his work developing an electronic "nose:" a device which distinguishes objects by their odor. Starting off with only the Gates and Crellin Laboratories in 1953, the Chemistry department soon expanded to Church, Noyes, and Braun Laboratories. The completion of Beckman Institute in 1989 increased laboratory and office space and provided state of the art science facilities for the growing department. The prestige of the department was evident when Dr. Linus Pauling was awarded the Nobel Prize in Chemistry in 1954 and the Peace Prize in 1962, and furthered when Dr. Rudy Marcus became a Nobel Laureate in 1992.

— Dr. Nate Lewis and Dr. J. D. Roberts



# Athletics

Back (l-r): Dan Bridges, Maureen Burl, Jean Timpe, Denise Gabaldon, Karen Nelson, David Riley, Ranganath Hatti. Front (l-r): Mike Jackson, Larry Scott, Clint Dodd, John D'Auria, Wendell Jack, Gene Victor, Bob Townsend, Marc Torres.



Numerous positive changes have occurred in the Athletics Department, most notably the design, construction, and opening of the state-of-the-art Braun Athletic Center in 1992 with its new weight room, fitness concourse, racquetball and squash courts, and new gymnasium. The changes include the addition of several physical education offerings to meet the needs of the students.

— Dan Bridges and Wendell Jack

# Music



Back (l-r): Don Caldwell, Allen Gross, Monica Hubbard, William Bing. Front (l-r): Delores Bing, Darryl Denning.

Whether vocalist or instrumentalist, interested in classical or jazz, the music program offers the Caltech student many choices. The Music Program at Caltech consists of the Caltech-Occidental Orchestra, Concert Band, Monday and Thursday Jazz Bands, Men's and Women's Glee Clubs, Chamber Singers, the diverse chamber music groups and Guitar. The husband and wife team of William and Delores Bing direct bands and chamber music respectively. Don Caldwell directs the Men's Glee Club and the smaller Chamber Singers, while Monica Hubbard leads the Women's Glee Club in song.



# Humanities & Social Sciences



**Humanities:** (l-r) Oscar Mandel, Catherine Jurca, Kevin Gilmartin, Cindy Weinstein, T. Kevin Flammig, George Pigman, Ron Bush, Phil Hoffman, Dan Kevles, Jim Woodward, Peter Fay, James Lee.

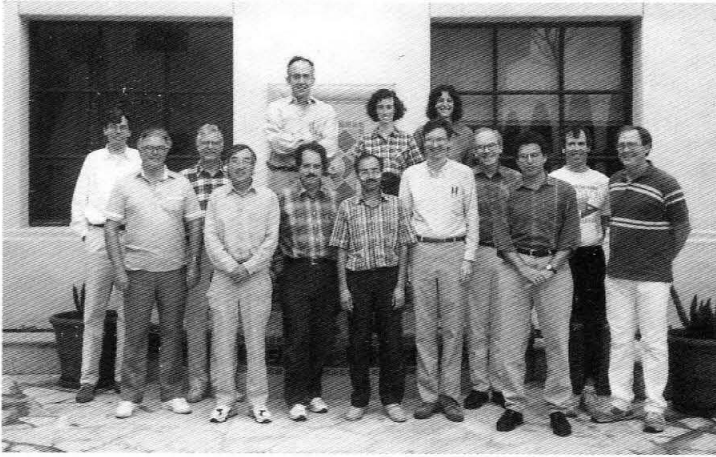
Most of the students at Caltech underestimate the Humanities and Social Sciences departments — yet they are the broadest of Caltech's divisions, ranging from American literature to sociology. The Humanities department offers classes in many foreign languages: French, German, Spanish, Japanese, Russian, Latin, and Greek. Of course, for some Techers, English literature is enough. Jenijoy La Belle's Shakespeare class is always eagerly awaited. To complete the Social Studies requirements, students choose from classes in anthropology, political science, psychology, and economics. Upper-level classes are also offered. Other popular classes offered by the division have included British Science Fiction, History of Los Angeles, and Belief, Truth and Knowledge. Caltech also offers a unique degree in Science, Ethics and Society.



**Social Studies:** Back (l-r): Colin Camerer, Peter Ordeshook, Lance Davis, Richard McKelvey, Paolo Ghirardato, John Ledyard, Morgan Kousser, Kim Border, Jeff Dubin, Mike Alvarez, Jonathan Katz, David Grether. Front (l-r): Phil Hoffmann, Charles Plott, Mat Spitzer, Rod Kiewiet.



# Electrical Engineering



Back (l-r): Yaser Abu-Mostafa, Pietro Perona, Michelle Effros, Andrea Goldsmith. Front (l-r): Axel Schrer, R. David Middlebrook, William Bridges, Rodney Goodman, Barry Megdal, P. P. Vaidyanathan, David Rutledge, Robert McEliece, Shuki bruck, John Doyle, Glen George

The Harry G. Steele Laboratory of Electrical Sciences was built in 1965. Upon completion of the Gordon and Betty Moore Laboratory of Engineering in 1996, most of the EE department relocated there.

Royal Wasson Sorenson (1882-1965) was the first EE professor at Caltech. He was invited to start the department in 1910, while he was working at General Electric, Co.

Sorenson did not think his family would enjoy living in California, but the idea of creating a department was very tempting. So he planned to stay only five years. He never left. He did groundbreaking works in power vacuum switches. His advice to students? "Hitch your ambitions to the ideas of good men."

— Dr. R. David Middlebrook

# Mechanical Engineering



Back (l-r): Richard Murray, Erik Antonsson, Chris Brennen, Tim Colonius, Thomas Caughey. Front (l-r): Joel Burdick, Fred Culick, Melany Hunt.

Back in 1943, Thomas, which currently houses the Civil and Mechanical Engineering Departments, was very small. The department was much different — there was even a comprehensive exam to be passed at the end of sophomore year to continue on in the division!

The ME department has continued to fame — the famous ME72 contest held  
46 Faculty

annually at Beckman Auditorium has been televised nationally. The contest allows students the opportunity to use their engineering knowledge to design their own machines. Although the Mechanical Engineering Department was not established until 1987, it has already made significant contributions in both research and education of students.

— Dr. Allan J. Acosta



# Geological & Planetary Sciences



Back (l-r): Duane Muhleman, Jim Westphal, Arden Albee, Ed Stolper, David Stevenson, George Rossman. Front (l-r): Yuk Yung, Ken Farley, Peter Wyllie, Tom Ahrens, Mike Gunris, Joann Stock, Bruce Murray.

The Caltech Division of Geological and Planetary Sciences (GPS) encompasses the fields of geology, geochemistry, geophysics, geobiology and planetary sciences. Located in Arms, North Mudd, and South Mudd buildings on the southwestern corner of campus, on campus resources include the GPS library and Shock Wave Laboratory. Nearby is the United States Geologic Survey office.

The location gives the Seismology Laboratory plenty to study — Southern California is frequently active, with minor, unnoticeable earthquakes daily, and larger ones less frequently. Location, of course, provides an incentive to work.

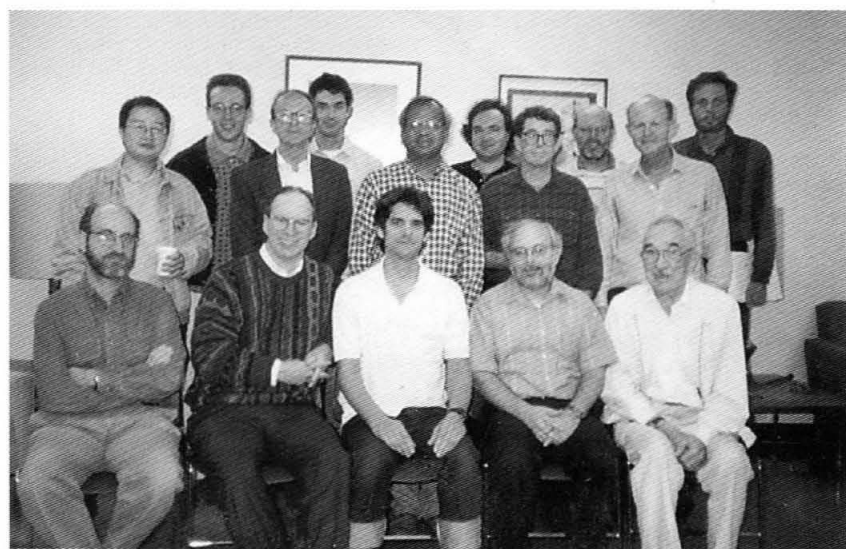
Other areas of research in the department include: glaciology, shock wave research, land remote monitoring, experimental petrology, mineralogical research, the paleomagnetism lab, the Hawaii Scientific Drilling Project, Global Information Systems and Remote Sensing, geodynamics, planetary astronomy and study of the Mars Surface, aided by data from Mars Pathfinder.

The geology department has also had success with its new course, Ge1, one of the two menu courses recently introduced into the mandatory Caltech Core Curriculum. Students were introduced to basic concepts in the lecture hall and in the field.





**Astronomy:** (l-r) Chuck Steidel, Roger Blandford, Judy Cohen, Maarten Schmidt, Tony Readhead, Wal Sargent.



**Mathematics:** back (l-r) Qing Xiang, Jacek Graczyk, W. A. J. Luxembourg, Matthias Flach, Dinakar Ramakrishnan, Igor Rivin, Michael Aschbacher, Timas Felt, David Wales, Tom Wolff. front (l-r) Alexander Kechris, Gary Lorden, David Gabai, Richard Wilson, John Todd.



**Physics:** back (l-r) Chris Martin, David Politzer, Kip Thorne, Charles Peck, Ward Whaling, Ralph Kavanaugh, Charles Barnes, Barry Simon, Steve Frautschi, Jeff Kimble, Harvey Newman, Michael Cross, David Goodstein, Eugene Cowan, Felix Boehm, Rochus Voght. front (l-r) Barry Barish, Ronald Drever, Alan Weinstein, John Preskill, Nai-Chang Yeh, Brad Filippone, John Schwarz, Thomas Phillips, Thomas Soifer.



# Physics, Math & Astronomy

---

Astronomy at Caltech has moved into a new era as the routine use of the two 10-meter diameter Keck telescopes allows unprecedented astronomical observations. The discoveries are rolling in, including identification of hundreds of galaxies as they existed when the Universe was but a fraction of its present age, proof of the cosmological origin of the mysterious gamma ray bursts showing that they are the most radiant objects in the sky during their brief flashes, and massive galactic structures in the early universe similar to what we see in much more recent epochs. But not all astronomy requires the huge collecting area of a Keck's big mirror for important discoveries, although it proves indispensable in making interpretive follow-up studies. For example, the first observation of a brown dwarf - an astronomical body much larger than Jupiter but too small to be a star - was made on a 1.5 meter telescope at Palomar, and then a Keck telescope was used to discover that its atmosphere is rich in methane. Caltech's unique complement of astronomical facilities also includes a collection of radio telescopes covering the wavelength bands from submillimeter to centimeter and these have allowed studies ranging from the composition of the interstellar medium, to the anisotropy of the cosmic microwave background, to new measurements of the Hubble constant.

Physicists continue their efforts to put the Standard Model of particle physics into a richer and more fundamental context to which it surely belongs. The attack is both from the top down - the elaboration of the theoretical structure of superstring theory discovered at Caltech about twenty years ago - and from the bottom up - experimental searches

for interesting phenomena not predicted by the Standard Model. In nuclear physics, the first measurements of the contribution of strange quarks to the magnetic moment of the proton have been reported. In gravitational physics, the construction of the \$300 million LIGO for the detection of gravitational waves from violent astrophysical events (possibly the sources of gamma ray bursts!) is now about half completed, on schedule and on budget. The site in Washington state has vacuum in one of its two 4 km arms, and the second arm is being added to daily. The Louisiana site is approaching readiness for the installation of its similar pair of vacuum systems for future laser beams. Nearer home, in on-campus labs, explorations that could lead to the first quantum computer are underway, experimental and theoretical studies of high temperature superconductors and the unexpected properties of related materials are underway, and the subtle physics of surfaces and temporal development of molecular interactions are being probed.

In the past year, members of the Division's mathematics option have made contributions in fields ranging from mathematical physics to abstract logic. Some particular advances include rigorous methods to determine quantum mechanical potentials from observations of particles scattered by them, the general classification of mathematical objects by their complexity, the structure of three-dimensional hyperbolic manifolds, and progress toward the proof of an interesting number theoretic conjecture by the famed Indian mathematician, Ramanujan.

—Charlie Peck



Groups (subgroups)  
 If  $G$  a group, subset  $H$  is a subgroup  
 and inverses  
 subset  $H \leq G$  iff (1)  $H \neq \emptyset$  (2)  $x, y \in H$

Centralizer  $C_G(A) = \{g \in G \mid gag^{-1} = a$   
 element in  $A$   $C_G(A) \leq G$

Center  $Z(G) = \{g \in G \mid gx = xg \forall x$   
 w/ every element in  $G$ .

Normalizers:  $N_G(A) = \{g \in G \mid$   
 if  $g \in C_G(A)$  then  $gag^{-1} = a$   
 $\therefore gag^{-1} = a$  notice

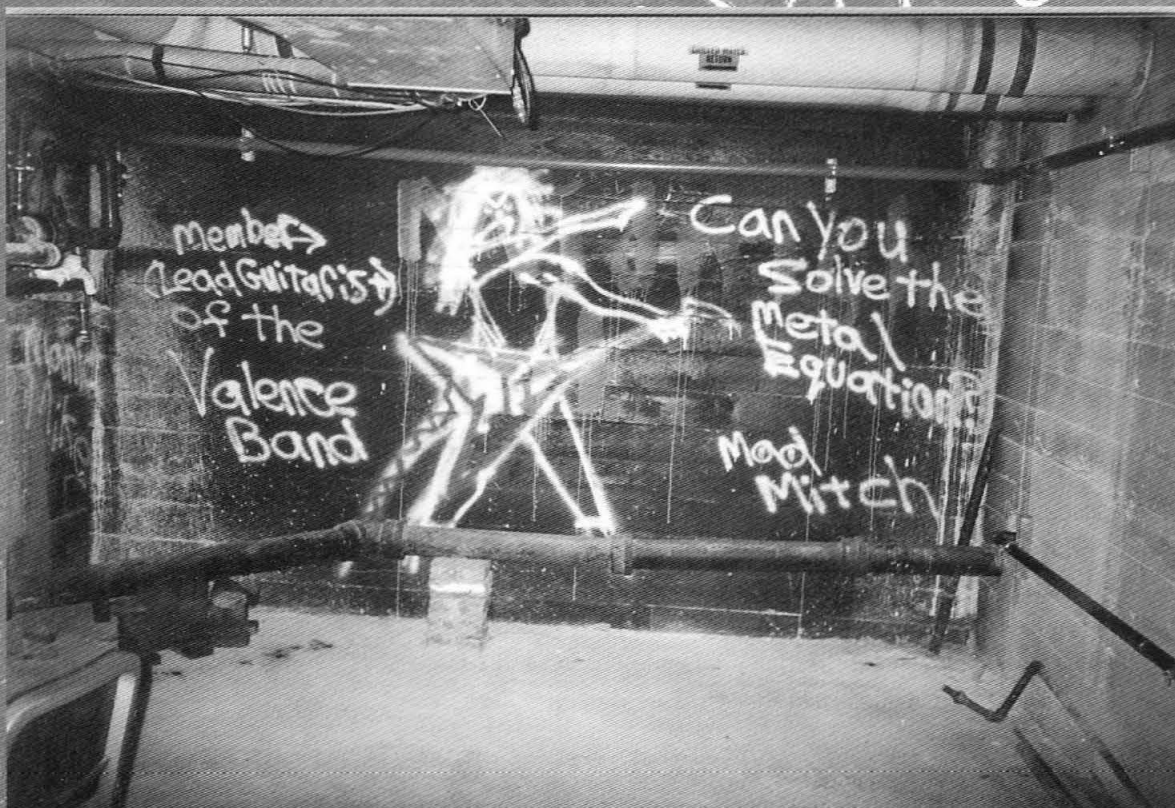
Stabilizer  $G_s = \{g \in G \mid a$

Kernel  $\{g \in G \mid g \cdot s = s$

$\phi = P(A)$  collection of  
 $A + B \subseteq G$



xy-1EH  
 V AEA3 - Commutes w/ every  
 C. - Commutes  
 A3  
 gAg-1  
 elements are  
 $s = s^3$  s is a fixed element  
 sES3  
 all subsets of G, G acts on by conjugation  
 $gBg^{-1} = \{gbg^{-1} \mid b \in B\}$   
 $\rightarrow gBg^{-1}$   
 all  $x \in H$  s.t.  $H = \langle x^7 \rangle$  and  
 $H = \langle x^7 \rangle$



# GROUPS



# *Board of Control (BoC)*

The BoC administers the Honor Code among undergraduates.

Chair: Maria Satterwhite  
Secretary: Alex Ihler  
Blacker Rep: Shane Ross  
Dabney Rep: Lilach Somberg  
Fleming Rep: Donnie Pinkston  
Lloyd Rep: Alan Rosenwinkel  
Page Rep: David Hackenson  
Ricketts Rep: Robert Saliba  
Ruddock Rep: Alan Lewis  
Reps at Large: Leah Foechterle  
Brigitte Roth

# *Interhouse Committee (IHC)*

The IHC deals with issues that involve the houses, like Rotation.

IHC Chair: Lori Hsu  
IHC Secretary: Judy Greene  
Blacker: Jon "Marty" Allen  
Dabney: Geoff Matters  
Fleming: Mike Shumway  
Lloyd: Steve Michael  
Page: Brett Tolman  
Ricketts: Geoff Smith  
Ruddock: Jeremy Mans

# *ASCIT Board of Directors*

The BoD deals with the campus-wide issues that the IHC and BoC don't handle.

President: Kohl Gill  
Vice-President/BoC Chair: Maria Satterwhite  
Secretary: Mike Astle  
Treasurer: John Lin  
IHC Chair: Lori Hsu  
Director for Academic Affairs: Mike Westover  
Director for Social Activities: Adrienne Borque  
Upperclass Director-at-Large: Kiran Shekar  
Freshman Director at Large: Baldeep Sadhal



# THE CALIFORNIA TECH

NOT AN ISSUE

PASADENA, CALIFORNIA

EVERY FRIDAY OF THE TERM

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Autumn Looijen  
Erik Streed

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Jacques Frechet

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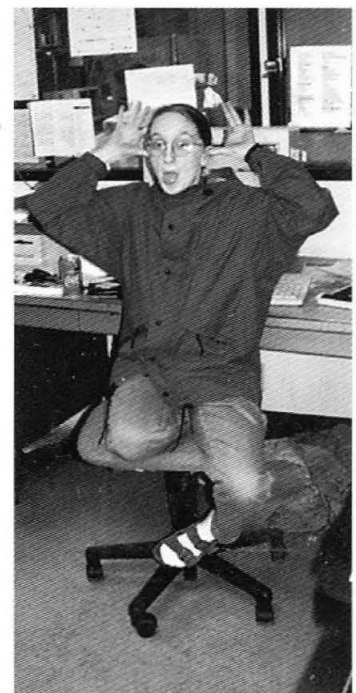
From the first Beaver quote to the Rivet, the *Tech* has had a good time. So there were a few typos. We've covered important campus issues like the Student-Faculty Conference (and why not many people went to it) and changing Institute policy towards pranks and tradition. We run the ever-entertaining and occasionally legible Mints every week. We bring you interesting and nutty columns like Adam Villani, Media Guy; Now Hear This!; Bookworm; and the Dean's Corner. We've given voice to opinions from the right, center and left. And Myfanwy has brought you news from the Outside World, every week. We've run Dilbert®. We've run more Dilbert®. We tried to give you an "All-Dilbert® Issue." And you still ask for more.

Without the *Tech*, how would you know what the ASCIT Movie is? (Try the Mints, last page.) Would you know what Dean Revel's mind was on? What about those extra-special issues we bring you on Valentine's Day and April Fool's Day? What else would you read with the ASCIT Donuts on Friday mornings?

Sometimes things get a little crazy in the office Thursday nights, as the pictures show. We'll do anything to bring you news, and to fill those pages: We've sat outside administrative offices until the target came out. The phrase: "We're from the *Tech*" annoys people in offices across campus to no end. We've been mentioned in the Crime and Incident Beat. We've bribed the printers with beer. We've asked Security to help us deliver the paper.

*The Tech* is here to tell you stuff — but we also like hearing from you. Write for the *Tech*, and get free food at the Friday meetings at noon in the Coffeehouse. Or else we'll run the Dilbert® out of order.

— Wren Montgomery (who else...)



Above: the *Tech*'s delivered; Autumn lets off steam.

To far left: Erik interviews Hans Bethe. Middle: The NeXT self-destructed this year.

Right: Around the light table Thursday night, from left to right:

Erik, Dee, (the back of) Ryan, Wren, Amanda, Stephen Heise and Myfanwy.





# ASME

The intent of the American Society of Mechanical Engineers (ASME) is to increase interest in Mechanical Engineering and provide the Caltech Community with events, including the Senior Banquet, guest speakers, and field trips to local engineering firms. this year we added another intention -- to help the local community; we volunteered at Habitat for Humanity, a non-profit organization which builds homes for the less fortunate.

— Tak Cheung



## CLASES

*Caltech Latino Association of  
Students in Engineering and  
Science*



*Tau  
Beta  
Pi*





# Caltech Floorball Club

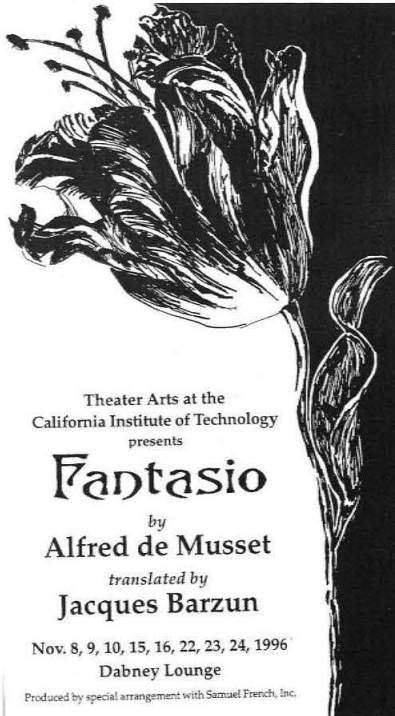


Floorball is played mainly in Europe, where the sport is quite popular, but now also in Japan, Singapore, Malaysia and...at Caltech! At a first glance, floorball is reminiscent of hockey, since each player is equipped with a stick which he or she uses to get a ball (not a puck) into a small goal. Floorball is much less violent than hockey, though; less even than soccer or basketball when played at comparable skill levels. The sticks are very light-weight, as is the ball, which makes the game very fast-paced, and an excellent, safe alternative or compliment to step aerobics or other highly aerobic sports. If you have played soccer or hockey, you should have a slight advantage when starting out in floorball, since the tactics are similar, but even with no experience it's fairly easy to get started. Since players wear nothing more than regular gym clothes and sneakers when playing, you already have everything you need to come and try it out with the rest of us; sticks, balls and goals are provided. We in the Caltech Floorball Club hope that the coming year will be as successful as the one we just had, with lots of fun at weekly pickups and the occasional on-campus tournaments!

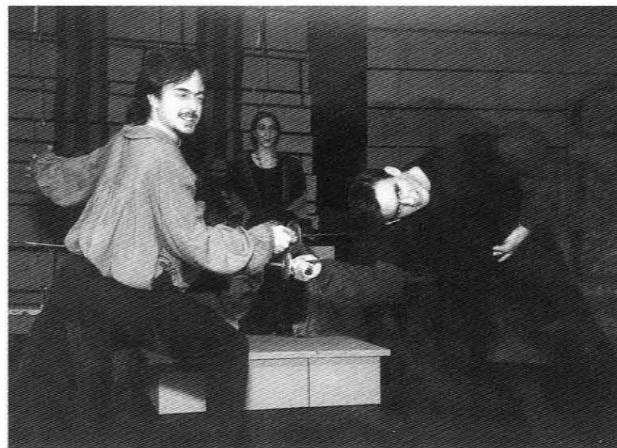
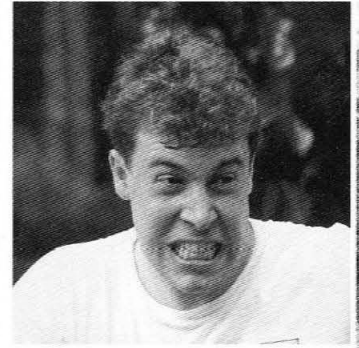
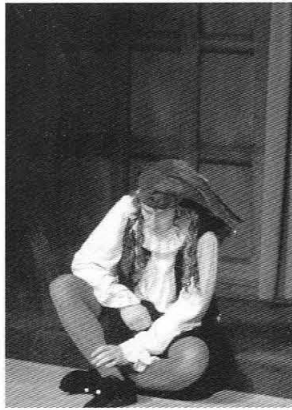
To all graduating seniors and graduate students, from all of us staying at Caltech, our best wishes for the future, and remember to start a floorball club wherever you go!

— Freddy Hansen






Theater Arts at the  
California Institute of Technology  
presents  
**Fantasio**  
by  
Alfred de Musset  
translated by  
Jacques Barzun  
Nov. 8, 9, 10, 15, 16, 22, 23, 24, 1996  
Dabney Lounge  
Produced by special arrangement with Samuel French, Inc.



Theatre Arts at Caltech presents

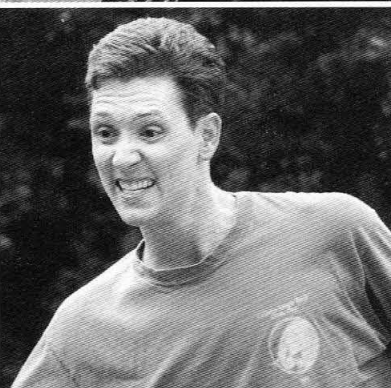
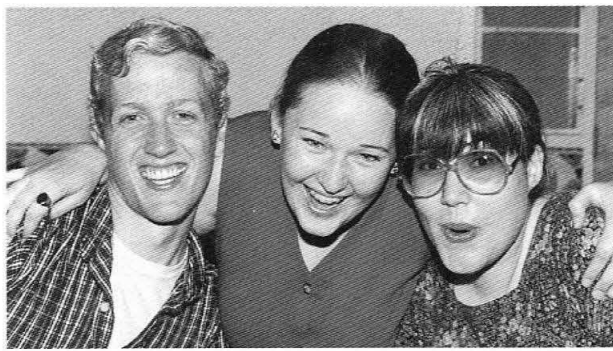
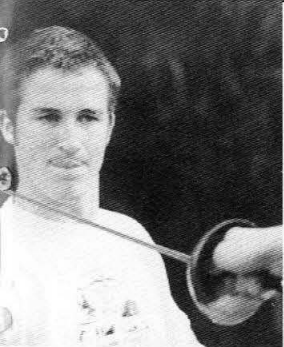


by Tom Stoppard  
produced by special arrangement with Samuel French, Incorporated





# Arts at Caltech




*The Letter*  
 An Award-winning One Act Play by Caltech  
 Freshman Onureena Banerjee  
 Starring:  
 Scott Van Essen & Tanya Tickel  
 Directed by Diana Lavely

Theater Arts at the  
 California Institute of Technology  
 presents

## Don Juan in Hell

by  
 George Bernard Shaw



May 23, 24, 25, 26, 30, 31; June 1, 1997

Dabney Lounge

Produced by special arrangement with Samuel French, Inc.



# Monday Jazz Band



The Monday and Thursday Jazz Bands played three concerts and a sold out performance at the local jazz club. They also played for the all campus party for Dr. and Mrs. Everhart and some members of the Jazz Bands even played for a party for the local Emmy Awards. The guest conductors for the Jazz Bands this year was Alf Clausen, the award-winning composer of the music for "The Simpsons."

— William Bing, Director.

## Members of the Band:

*Alto Saxophone:* Seth Lacy (Sr., Physics/Aero) & Faye McNeil (So., Chem. Eng.)

*Tenor Saxophone:* Pete Yakowec (GS, Biology) & Brian Patton (Fr., Physics)

*Baritone Saxophone:* Louis Madsen (GS, Chemistry)

*Trumpets:* Jason Barnes (Jr., Astronomy), Scott Carnahan (So., Math), David Hackenson (So., Chem. Eng.) & Elwyn Uy (Sr., App. Phys.)

*Trombones:* Kjerstin Easton (Fr., Elec. Eng.), Matt Carlson (GS, Chemistry) & Rory Sayres (Fr., Biology)

*Piano:* Charless Fowlkes (Fr., CS)

*Bass:* Masa Emori (CIT Community)

*Drums and Percussion:* Lee Friedman (CIT Community)

*Guitar:* David DeVault (Fr., CS)

*Vocalist:* Brigitte Roth (So., Econ.)



# Thursday Jazz Band



## *Members of the Band:*

*Alto Saxophone:* Jean-Paul Davis (GS, Aero) & Susanne Lin (Alumnus)

*Tenor Saxophone:* Tom Flemming (Alumnus) & Louis Madsen (GS, Chemistry)

*Baritone Saxophone:* John Chodera (So., Biology)

*Trumpets:* John Brugman (Community), Rob Manning (Alumnus), James Dooley (Sr., CS) & Phil Sutton (Sr., CS)

*Trombones:* Erik Daniel (GS, Physics), David Marx (Alumnus, Elec. Eng.), & Mike Ichiriu (Alumnus, Biology)

*Bass Trombone:* Mike Pahre (GS, Astronomy)

*Piano:* Les Deutsch (Alumnus, Math)

*Bass:* Tom Lloyd (GS, Env. Eng.)

*Drums and Percussion:* Marc Kuchner (GS, Astronomy) & Michael Shumway (Jr., App. Phys.)

*Vocalist:* Greg Renard (CIT Community)



# Concert Band



The Caltech Concert Bands had another successful year. The Concert Band played three formal concerts and had as their guest conductor David Whitwell, who is a former president of the College Band Directors National Association. Departing this year is our Assistant Conductor Paul Asimow, who received his Ph.D. in Geology and is leaving this year for Columbia University. We'll miss him.

— William Bing, Director

## Flute:

Paul Asimow (GS, Geology)  
Becky Charlton (GS, Geology) \*  
Mary Davis (CIT Community)  
Angela Han (Fr, Undeclared)  
Martha House (Faculty, Geology)  
Christina Molodowitch (Jr, Chem.)

## Piccolo:

Angela Han (Fr, Undeclared)

## Oboe:

Todd Fernandez (Alumnus)  
Sandra Lloyd (Community)\*

## Clarinet:

Patti Brugman (Oxy Alumna)  
Ken Caulkins (Community)  
Marlyn Darcey (Community)  
Steven Ginzburg (Jr, CS)  
Sean Wakayama (Alumnus)  
Michael Werner (JPL)  
Sarah White (GS, Chemistry) \*

## E-Flat Clarinet:

Connie Josias (Community)

## Alto Clarinet:

Trudi Wreede (Community)

## Bass Clarinet:

Stan Manatt (Alumnus, JPL)  
Jo Wisniewski (Community)

## ContraBass Clarinet:

Don Gross (Community)

## Bassoon:

Colleen Papp (Community) \*  
John Wisniewski (Community)

## Alto Saxophone:

Les Deutsch (Alumnus, JPL) \*  
Seth Lacy (Sr, Physics/Aero)

## Tenor Saxophone:

Ray Richards (Alumnus)

## Baritone Saxophone:

Dwight Garcia (Community)

## Horn:

Gabriel Brandt (GS, Chemistry) \*  
Alix Fournier (Community)  
Otfrid Lipack (JPL)  
Rachel Steinberger (Fr, Biology)

## Cornet and Trumpet:

Carl Anhalt (So., ME)  
John Brugman (Community) \*  
Scott Carnahan (Fr, Math)

## James Dooley (Sr, CS)

Tom Kirkland (GS, CS)  
Duane Marsteller (Community)  
Jeffrey Miller (Sr, Biology)  
Richard Till (CIT Community)

## Trombone:

Ruben Rico (Community)  
Sarah Milkovich (Fr, Astronomy)

## Bass Trombone:

Mike Danielson (Community)

## Baritone Trombone:

Chris Berger (Fr, Elec. Eng.)  
Jay Breidenthal (JPL) \*

## Tuba:

Herb Bell (Community)  
Brad Dooley (GS, Aero.) \*  
Von Wade (Community)

## Percussion:

Todd Averett (Faculty, Physics)  
Jacques Frechet (So., CS)  
Ashwin Vasavada (GS, Pla. Sci.) \*  
Jeff Weiss (JPL)

Manager: Tim Uy

Assistant Manager: Carl Anhalt

\* principal player



# Chamber Music



Back row (l-r): Andrew Ling, Elizabeth Boer, Leonard Sung, Jason Maron, Ben Turk, Helen Blackwell, Kay Jhun, Frank Ling, Dan Levy, Maria Satterwhite, Zane Crawford, Chris Chang.

Middle row (l-r): Peggy Gabriel, Anne Kelly, Kacie Shelton, Jennifer Yang, Kathleen Holland, Shirley Chen, Michelle Miller, Janice Yeung, Minoree Kohwi.

Front row (l-r): Hanna Kim, Winston Yang, Rory McKenna, Megan Andrews, Emily Rempel, Dave Relyea, Christina Molodowitch.

Undergraduates not pictured:

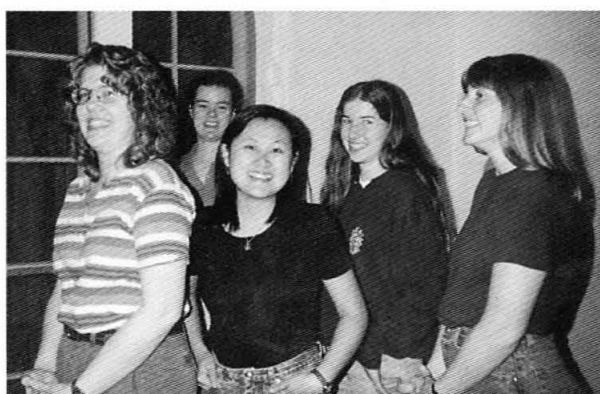
Lisa O'Rourke, Rowena Lohman, Wes Salzillo, Sindy Wei, Ki-Young Suh, Jonathan Aldrich, Cyrus Behroozi, Alex Dunn, Adrienne Bourque, Heidi Eldenburg, Niniane Wang, Wren Montgomery, Vandana Desai, Paul Vigil, Aimee Pierce, Lilach Somberg, Scott Carnahan, Anthony Ho and Oliver Dial.

Caltech chamber music players formed forty small groups of from three to eight musicians this year, and presented a wide variety of music in nine noon and evening concerts. Returning this year were the traditional noon concert during Wellness Week, known as the "Noontime Stressbuster Concert," and the "Super Bowl Alternative Concert III," held during the big game. We also marked the exact date of composer Franz Schubert's 200th birthday with a noon concert of his chamber music, and performed in the annual all-Mozart concert.

— Delores Bing, Director



# Women's Glee Club



The Women's Glee Club was founded in 1972, two years after women were admitted to Caltech as undergraduates. It is the oldest program on campus for women only, providing opportunities for novice as well as experienced singers. The membership has grown from 8 in 1972 to the current 25. the group performed in several concerts this year, preforming works by Libby Larsen, among others. As recognition of her contributions to the campus community, Director Monica Hubbard was made an honorary alumna of the Institute this year.

— Women's Glee Club





# Men's Glee Club



*Dr. Donald Caldwell, Director.  
Wendy Caldwell, William Schmidt,  
Accompanists.*

The Men's Glee Club are members of the Caltech/JPL community who enjoy singing and performing classical and contemporary works of choral music. Repertoire ranges from choral/orchestral to folk songs and occasional jazz.

Members of the Glee Club, pictured above singing *Oedipus Rex* in the Winter of 1997.

**Tenors:** Dimitri Antsos (JPL, Fac. EE), Mohammed Gharib (GS, Aero & Fluid Phys.), Yoshito Harada (GS Biology), Harold Kirkham (JPL Optical Sys.), Robert Lin ('97, EE), Julian Lee (GS, Aero), Dusan Misevic ('98, Math), Louis Thomas ('98, CS), Scott Van Essen (GS, CS) and Micael Vanier (GS, CNS).

**Basses:** Jonathan Adams ('00, Phys.), Kent Bradford (GS, Phys.), Tony Chang ('97, E&AS), Francesco Faglioni (GS, Chem.), Xavier Fan ('99, CS), Michael Gibson (GS, CNS), Andy Groves (PD Biology), Freddy Hansen (GS, App. Phys.), Brian Hudson (GS, Chem.), Gerrit Kirkwood ('97, ME), Jeremy Mans ('98, App. Phys.), Christopher Miller ('00, Phys.), Kudah Mushambi ('00, E&AS), Alexander Nicholson (GS, CS), Erik Streed ('99, Phys.) and Hanhui Yuan ('99 CS).

# Chamber Singers



*Dr. Donald Caldwell, Director.*

An ensemble of 16 voices open only to students, the Chamber Singers present Renaissance entertainments in December on campus and throughout the local area, participate with orchestra in the annual All-Mozart Concert every spring, and present an evening of musical theater in June. The ensemble has performed almost all of Mozart's choral literature, with other repertoire ranging from Purcell's "Aeneas & Dido" to Stravinsky's "Mass."

Back row (l-r): Scott Van Essen, Steven Bennett, Dusan Misevic, Christopher Miller, Werner Sun, Kent Bradford, Brian Hudson, Gerrit Kirkwood.  
Front row (l-r): Lila Guterman, Corinna Schultz, Anita Gould, Laura Brady, Lael Erskine, Lisa Gaskell, Myfanwy Callahan, Wendy Caldwell, Kathryn Oseen-Senda.



# Anime Society



The Caltech Anime Society is dedicated to showing and popularizing Japanese animation ("anime") to the Caltech community. Unbeknownst to most people in the West, Japan has a flourishing animation industry comparable in size and diversity to the Hollywood live-action film industry; in Japan anime is seen routinely in cinemas, prime-time television and direct-to-video releases.

The Japanese view animation as a valid medium for storytelling of all sorts and for all audiences, in contrast to the Western perception that cartoons are "just for kids." Accordingly, there are large quantities of anime which feature plot complexity, character depth, and emotional content that many Westerners would never expect in a "cartoon." Moreover, many of the early anime titles to become popular in the West had considerable sexual content (since both live-action and anime are media for all ages, "adult" anime titles exist in Japan.) This has led some people to brand anime as a

medium for perverts and weirdos, even though the adult titles comprise a small and avoidable percentage of the total output of the anime industry.

Several natural barriers to anime acceptance also exist. First and foremost, because anime is made in Japan, it must be imported into the West to be viewed at all, making it rare and expensive relative to domestic releases. Also, since almost all anime use Japanese as their native language, few people in the West understand much of it without translation. Commercial firms exist that translate and domestically release anime titles, but until recently those efforts were considered a fringe market and even today the commercial translators cannot hope to bring over more than a fraction of the titles available. This has led to the anime fan community (largely based in academia) to translate many titles for its own use: while this can be faster than waiting for a commercial firm, the translations are scarce and often require knowing the right people to see at all.

The Caltech Anime Society's mission is to overcome

the availability barrier and to promote a balanced, realistic view of what anime is. The club holds weekly showings open to the community at large and maintains a growing library of titles available for loan to club members, as well as offering various forms of assistance for people who wish to buy anime-related merchandise for themselves. It is our hope that offering people a chance to see anime on their own terms will correct any negative stereotypes about the medium and start the word-of-mouth mechanism turning. Also, we hope that the audience will enjoy the titles we show as interesting, entertaining works in their own right. We have also worked with the Japanese language program here at Caltech to show a certain amount of untranslated material (often shows still running in Japan) as out-of-class language practice. Attendance at showings ranges from about half a dozen to well over thirty people, and over eighty people have put themselves on our mailing list, ample testament to the persuasive power of anime as an expressive, engaging medium.

— Mark L. Neidengard.



# Karate Club

The Caltech Karate Club is the oldest university karate club outside of Asia. We encourage you to come learn to develop physical and mental strength, confidence and discipline through the study of karate. Introductory and intermediate classes are offered to members of the Caltech/JPL community. The Caltech Karate Club is famous for its direct lineage to master Gichin Funakoshi, widely accepted as the father of modern karate. Founded in the fall of 1957 by Tsutomu Oshima (one of Master Funakoshi's few direct students), we were very fortunate to train directly under



Mr. Oshima until his retirement in May 1994.

— Michiel vanNieuwstadt and Andrew S. Huntington

# Tang Soo Do



Caltech Tang Soo Do is a Korean martial arts club and class that is taught at Caltech. This class is open to all skill levels, from

novice to expert. Everyone is welcome!! Come visit anytime! As an added benefit, the class is available to students as a way

to satisfy the PE requirement, three terms a year. the techniques taught in the class are traditional in nature, but are also effective in self-defense situations. Items that are taught in the class include open hand forms, staff forms, Hap Ki Do (grappling type self defense,) basic hand and foot techniques, and much more. By training in Tang Soo Do, you will gain flexibility, balance, endurance, strength, self confidence, grade of motion and much more. It's a fun and challenging way to get in shape and it's also a good way to meet others in the Caltech and JPL community.

— Erik Severin



# CCSA

The Caltech Chinese Students Association (CCSA) has a membership of largely undergraduate students who have an interest in Chinese culture and friendship. We are open to all members of the Caltech Community and are composed of students from a diverse range of ethnic backgrounds including foreign students and Asian-American students. We host a variety of events including the popular Dim Sum trip each term, the



Lunarfest formal with other colleges, the premiere of Jackie Chan movies, beach and hiking trips, Dumpling Night and THE phattest parties on campus. Check

out our webpage at: <http://www.cco.caltech.edu/~ccsa>.

— Carolyn Chan

# KSA



The Caltech Korean Students Association (KSA) seeks to advocate and educate awareness of the Korean culture in and around Caltech. This organization has reached out to the Korean community in Los Angeles, for example, to help out at an after-school program. the club also encourages participation in Korean American conferences that aim to raise awareness of cultural roots and identity and of the issues facing Korean American communities in the United States. In addition, the KSA plans social events with other colleges to present more opportuinities for Caltech students to meet new people.

— Ki-Young Suh



# Entrepreneur Club



Once again, the Entrepreneur Club has provided its members with a program of interesting events and has helped promote a spirit of entrepreneurship throughout the Caltech campus. The E-Club brought several notable entrepreneurs to speak this year. The list includes Bill Gross, who started ventures such as Knowledge Adventure and idealab!, Sky Dayton, founder of Earthlink Network, Phil Neches, entrepreneur and trustee, Thomas Tish of e\*trade, and Will Webster, manufacturer of innovative, life-saving medical products. Other recent club activities have included panel discussions with pioneering

entrepreneurs, involvement in the grand opening of Avery House, and advertising the new and highly successful engineering and entrepreneurship course, E100. Our members have enjoyed the privilege of attending entrepreneurial activities outside of the club, such as the annual Harvard Business School Entrepreneur's Conference and Caltech/MIT Enterprise Forums, often free of charge. We hope to continue to promote entrepreneurship at Caltech and put on an even more impressive program of events next year. We encourage everyone to get involved with the club and participate in our activities. The

Entrepreneur Club would like to thank the many offices and groups on campus that continue to give us advice and their generous support. Our success would not be possible without your help.

The current executive committee includes: Mike Michrowski, President; Guangyang Wang, Vice President and Treasurer; Alex Chen, Secretary; Cindy Ball and Edwin Soedarmadji, Publicity Managers; and Dazhi Chen, General Member of the Executive Committee.

— Michael Michrowski



# Caltech Electric Vehicle Club

The Caltech Electrical Vehicle Club (CEVC) was in its infancy during 1996-7, and as a result succeeded in sucking the valuable life force from only a small core group of its members. Pursuing the club's goal of making electric vehicle driving a common experience for members of the Caltech community, the club started with a converted Toyota Paseo donated by the estate of Disney CEO Frank Wells. Efforts throughout the year centered on making the vehicle safe and legal for city driving by any member of the Caltech Community.



The CEVC also worked to inform the Caltech Community about alternative transportation through booths and organizational efforts tied to the CETF Earth Day Fair,

booths at the graduate and undergraduate student fairs, and co-sponsorship of "EV-1 Day" at Caltech, where many students got a chance to drive GM's svelte new vehicle.

— Rob Rossi

# Caltech Amateur Radio Club

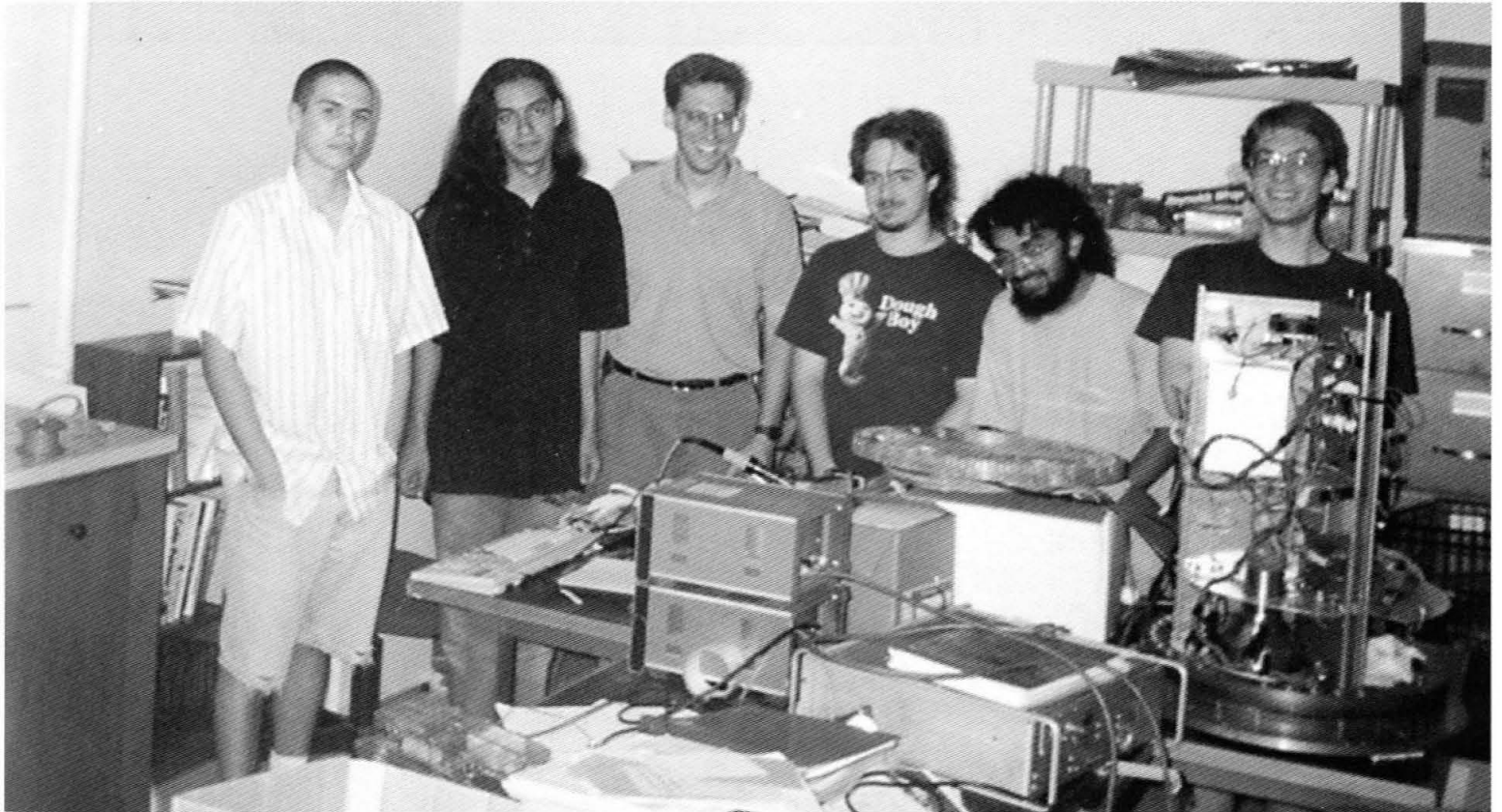


The Caltech Amateur Radio Club (CITARC) licensed as W6UE has been around since 1918. 1997 saw the completion of CITARC's WARC tower on Thomas. CITARC maintains a state of the art ham radio station in Winnett Student Center and welcomes members from the broad Caltech Community and JPL. The Station Trustee is Professor Bill Bridges, W6FA; the President is Paul Gordon, N6LL; and the Secretary-Treasurer is David Ritchie, N7UE.

— David Ritchie



# *Students for the Exploration and Development of Space (SEDS)*



SEDS is an acronym for Students for the Exploration and Development of Space. The organization had its humble beginnings at MIT. Today, there are many chapters spread throughout the world. Here is the SEDS mission statement:

SEDS is an independent, student-based organization which promotes the exploration and development of space. SEDS pursues the mission by educating people about the benefits of space, by supporting a network of interested students, by providing an opportunity for members to develop their leadership skills, and inspiring people through our involvement in space-related projects. SEDS believes in a space-faring civilization and that focusing the enthusiasm of young people is the key to our future in space.

Joe Cook - President  
Leon Torres - Vice President  
Mike Westover - Trea\$urer  
Brad Dooley - Chapter Representative  
Hitaine Patel - Secretary



# Caltech Christian Fellowship (CCF)



The Caltech Christian Fellowship (CCF) is an interdenominational group composed of all those who share the salvation of the Lord Jesus Christ. The members of CCF hold the common belief that the calling of Jesus Christ to be His disciple is the ultimate challenge of any person, and that the Holy Spirit works in a role of comfort and assurance for those who trust in Him. The group is open to anyone. We encourage people to grow spiritually and share their exciting faith. Weekly Bible studies are scheduled almost every night. Our fellowship-wide large group meetings were held Monday nights in Winnett Lounge, with a variety of fascinating speakers. This year, we have also sponsored fun events for the whole campus such as a pancake feed, ice cream social, square dances, and a praise night of singing and testimonies to God's work in our lives.

— Jonathan Aldrich



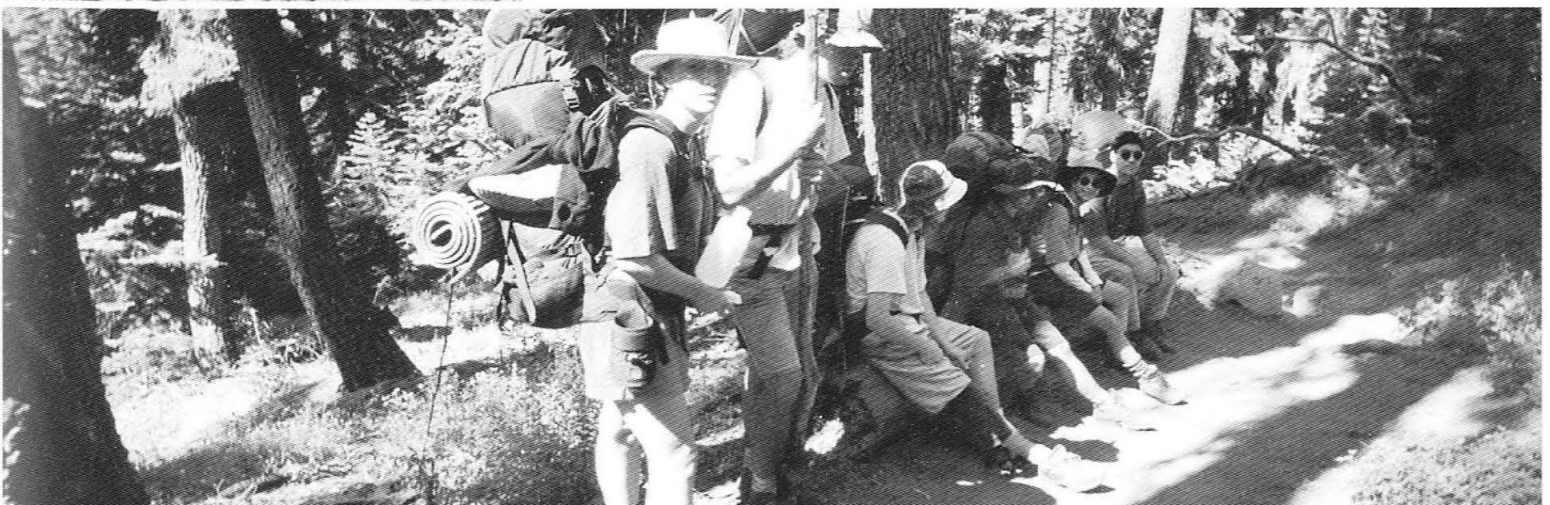


# Caltech Y



It's been another eventful year for the Caltech Y. Our outdoor adventures successfully began with the Y Hike, a popular one week trip to the mountains just before first term. Weekend hikes and mountain biking trips continued throughout the year. Caltech students also hits the trails this year for trail maintenance. Other community projects included Spokes for Hope, Christmas in April, three days working with Habitat for Humanity in place of our Alternative Spring Break, and much more. Every week we helped deliver food to homebound patients with AIDS in Project Angelfood. Students also tutored local high school students in our weekly program. On campus projects were very successful this year, including the ever popular Decompression, which many students volunteer for every term. The Y also put on its annual Easter Egg Hunt and Turkey Trot. International Day, held during Pre-Frosh Weekend, was extremely popular, attracting students with the lure of treats from around the world. The Y has also helped to sponsor many events at Caltech, including Semana Latina, Black History Month events, poetry and play readings, a movie shown by its director, and many others. Next year is already looking to be just as busy and exciting, so be sure to check us out.

— Heather Dean





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ATHLETICS





Back Row: Head Coach Phil Howells, Dale Parkes, Urban Dabutha, Chris Kurtz, Ryan Cox, Matthew, Austin Collins, Asst. Julie Tingle, Tony Payne, Anil Roopnarine, Stefan Kazachki, Peter Frazier, Albert Hsiao, Asst. Ken Kiessling Front Row: Patrick Higgins, Albert Ramirez, Ronald Dollete, Kim Vu, Francisco Dias Lourenco, Daniel Song, Kejian Wu, Clay Kishiyama, Dazhi Chen, Anna Iwaniec Not Pictured: Kanwarpal Kahlon

# Soccer

The Caltech co-ed soccer team began this year with many prospects, but as the season progressed, its roster eventually diminished to a dedicated group of teammates who were always full of optimism, spirit, and beverage incentives. ("Come on guys, we can win this one.") We were handed several defeats, but although the issue of running up the score only came up against the alumni team, we did have many close games that didn't show up in our 0-for-whatever record. Our schedule doesn't show the time Ron actually paid Denise for being on the pizza list, or the time we actually had fans at an away game, or the time we beat the cross-country team at water polo. I guess you can only ask for so much information when you read a statistic. The core group now play for the GSC

team - the Wu Dogs - and next season we'll be losing such talented players as Anil Roopnarine, Albert Ramirez, and captain and co-MVP Clay Kishiyama, which means the alumni game is going to be tough. We still have a team of superstars including Francisco Dias-Lourenco and Matt Barnet. Frankie was our Maradona wannabe and Mat, our other MVP, was otherwise known as "The Wall." Yeah, the 0-for-n record (where n is arbitrarily large) doesn't show our two MVP's being nominated for All-Conference or anything else particularly impressive. Maybe we're just in love with the game, and like Stefan Kazachki said, "There are no boundaries in love."

--submitted by Julie Tingle, Assistant



Dale Parkes shoots for the goal while the other team looks on.



Kanwarpal Kahlon outmaneuvers his opponent.



# Ice Hockey

During the exciting 1996-97 season, the Caltech Ice Hockey team posted a division record of 4-8. As part of the Pacific Collegiate Hockey Association (PCHA) Division II league, the Beavers faced rivals such as University of California Davis, Cal State Northridge, Fresno State, University of California San Diego, Long Beach State and Santa Clara University. In addition to the league games, this season also featured an exhibition game against Loyola Marymount College. This special match was played at the Los Angeles Forum following the Los Angeles Kings-Edmonton Oilers game. The Beavers prevailed over Loyola Marymount with a final score of 7-5.

This year's Caltech Beaver Ice Hockey team was

led by player and coach Pavel Svitek, who scored the most points this season. Svitek's linemates were Roger McPherson and Steve Chase. McPherson was new comer to the team, while Chase completed his four year undergraduate career this year. The other forwards, veterans Mike Slessor, Max Lyutikov, John Anderson and Junior Sean Suchter, also played solid hockey behind the first line. New to the team, Hannah Dvorak and Nathan Good also contributed in their forward positions.

Guarding the net, Frank Monzon was the #1 goalie, capturing all four of the wins. He was supported by the defense, which was anchored by the physical play of Senior Mark Stewart, Jon Hodowany, Biff Yamazaki

and new comer Chris Jones. The team has also been greatly aided by the play of Chris Claypool and Hafen McCormick, who demonstrated their flexibility by playing both forward and defense positions.

The season was capped by the Beaver Cup on March 2. In this annual event the Caltech Beaver team battles the MIT Beaver Alumni team. After coming off a 3-3 tie in the previous year, the Caltech team unfortunately suffered a 5-0 loss. However, this event is the most popular, drawing on one of the school's greatest rivalries. Needless to say, the Beaver Cup match drew the highest attendance of all season games.

--Biff Yamazaki



Some Ice Hockey Team members pose for a friendly photo before going to the ice rink.





Back Row: Assistant Coach Julie Tingle, Troy Lee, Chris Kurtz, Chris Cary, Karl Thulin, Tim Yarnall, Bill Heistand, Dan Kleiman, Head Coach Don Bene Front Row: Brian Barris, Kejian Wu, Keely Walker, Cailin Henderson, Harmesh Lad, Greg Detweiler

# Track and Field

## Women's Honors

Cailin Henderson: 1st 3,000 meters all conference meet, 10:06.78 in 3,000 meters at NCAA Championship in LaCrosse, Wisconsin

School Honors:

Outstanding Female Athlete  
Golden Ankle Award (this award is co-ed)

## Men's Honors

Dan Kleiman: 1st 5,000 meters at all-conference meet, 2nd in conference

School Honors:

Goldsworthy Track Trophy

Karl Thulin: School Honor:

MT Davis Trophy

Chris Cary: School Honor:

Captain, Most Improved



The Caltech team participated in many very close races.





Above: Mapping out the foot motions ahead of time is important in many field events.

Left: These racers are off to a quick start.

### Men's Season Record

Caltech	26	Whittier	120
Caltech	28	LaVerne	92
Caltech	35	Redlands	112
Caltech	27	Pomona Pitzer	128
Caltech	38	Cal Lutheran	104
Caltech	14	Claremont	136
Caltech	24	Occidental	90
Caltech	8th	SCIAC Championship	

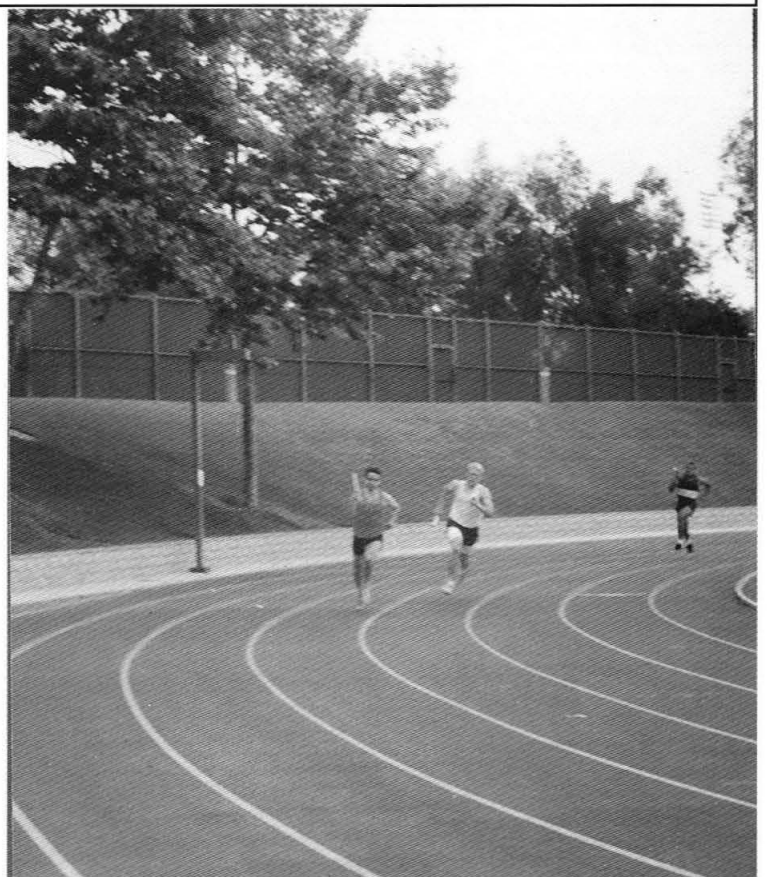
### Women's Season Record

Caltech	0	Whittier	131
Caltech	0	LaVerne	121
Caltech	0	Redlands	116
Caltech	11	Pomona Pitzer	117
Caltech	15	Cal Lutheran	112
Caltech	0	Claremont	130
Caltech	0	Occidental	90
Caltech	10th	SCIAC Championship	



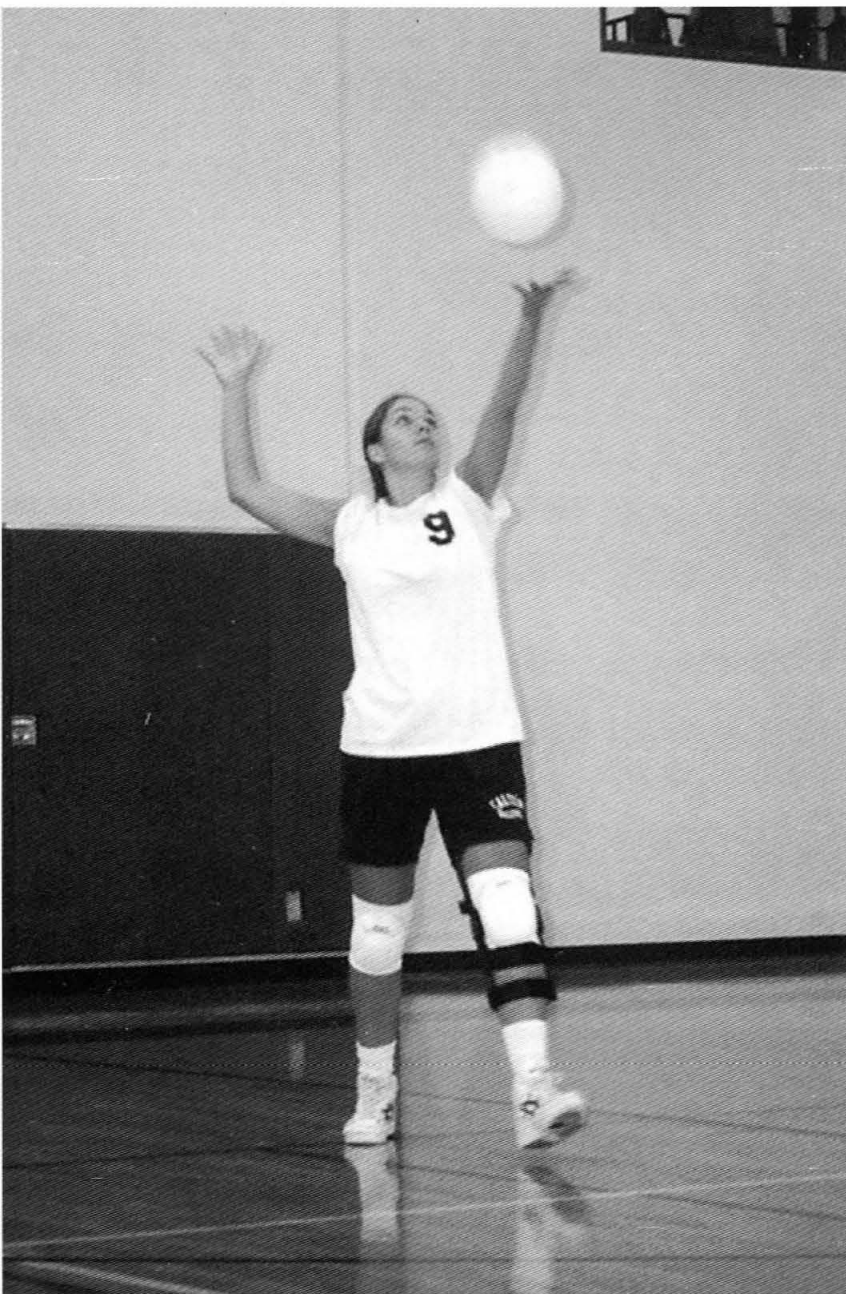
Above: Chris Cary approaches the water in the steeple chase.

Right: The Caltech team was barely leading coming around this curve in a relay race.





# Volleyball



Great serving has been an important part of this record season.



After a powerful attack, the Beavers stand ready to face their opponents return.

The Caltech Women's Volleyball Team had a record breaking season in the fall of 1996. They finished the season with an overall record of 6-11 (9-16 tournament). This is the best record the team has ever recorded. The Beavers earned much respect from their opponents, giving every team they faced a run for their money in many close games.

The 15 member team was captained by senior Jennifer Holland and junior Grace Yang. During the season, all players exhibited hard work and commitment. Practice attendance was incredibly high and the players always gave 100%.

Grace Yang, a setter, was voted by her teammates as the Most Valuable Player of the season. She broke seven school records--most assists, digs and service for points in a season and most assists, digs, service for points, and ace serves in a career. Jennifer Holland, an outside hitter, broke the school record for most kills in a season and most kills in a career. Alexis Johnson, a middle blocker, broke the school record for most blocks in a season.

Jian Ye, Hanna Cai, and Leigh Engen shared the Most Improved Player awards. The Most Inspirational titles went to team mentors Emily Ho and Jennifer Holland. Janet Sun, an outside hitter, and Emily Ho, a defensive specialist/opposite received the Coaches' Awards. Diana King, a team mentor, also provided consistent middle blocking. Freshman Erika Swanson rounded out the starting line-up with strong play at the opposite position.





Cailin Henderson, Jen Yang, Katie Stofer, Aimee Pierce, Amy Chang-Chien, Karen Bletzer, Phyllis Chen, Sara Beaber

# Cross Country

### Conference Honors

### School Honors

1st team all conference--  
Cailin Henderson  
2nd team all conference--  
Sarah Beaber

Women's Captain--Cailin  
Henderson  
Men's Captains--Chris Cary,  
Brian Barris, Dan Kleiman  
"Outstanding Runner"--

Cailin Henderson  
Golden Ankle--  
Cailin Henderson  
Paul Barthel Trophy--  
Dan Kleiman

NCAA National  
Championship Meet  
85th place--Dan Kleiman



Back Row: Nathanael Hsu, Chris Chang, Bil Heistand, Max Kullberg, Dan Kleiman, Chris Cary, Troy Lee, Conrad Ziesler Front Row: Brad Nakatani, Adrian Seymour, James Dooley, Arjun Mendiratta, Greg Detweiler, Brian Barris, Ian Shapiro



### Women's Fencing Record

Caltech	12	UCLA	16
Caltech	8	UCSB	8
Caltech	13	USC	3
Caltech	8	UCSD	24
Caltech	14	CSUF	17
Caltech	16	UCLA	14
Caltech	13	UCSB	11
Caltech	18	USC	6
Caltech	3	Stanford	29
Caltech	2	UCSD	26
Caltech	11	CSUF	13



This Techer sizes up his opponent.



The fencers greet each other before a match.



In preparation, this fencer adjusts his mask.

# Fencing



An intense pair-off takes place.

### Men's Fencing Record

Caltech	18	UCLA	9
Caltech	13	UCSB	14
Caltech	18	USC	9
Caltech	9	UCSD	18
Caltech	12	CSUF	15
Caltech	13	UCLA	14
Caltech	14	UCSB	13
Caltech	22	USC	5
Caltech	3	Stanford	24
Caltech	7	UCSD	20
Caltech	10	CSUF	17





The team looks over the course and discusses strategy.



Left : Diligent team members practice at the driving range.

# Golf

Below: Picking out the right club for the job is an important aspect of golf.

A lack of depth precluded the kind of season hoped for this year. The four regular players, Kyle Stickle, Clay Kishiyama, Kazu Nakada and Nick Lorenzen, performed well and Kyle made All-Conference (second team) and won Caltech's annual J. Ben Earl Golf Trophy. Josh Moats came out after basketball and helped us avoid some forfeits. The team scoring average (358) was quite respectable, especially considering that we were competing with the minimum four players and our opponents could use their best four out of six. Though finishing last in conference this year we were very competitive with Pomona and Whittier, and, with the addition of two very strong players for next year should match up well with all conference schools. The team MVP was Kyle Stickle, and Kyle and Kazu will be the team co-captains for next year. This year's captain was Clay Kishiyama.

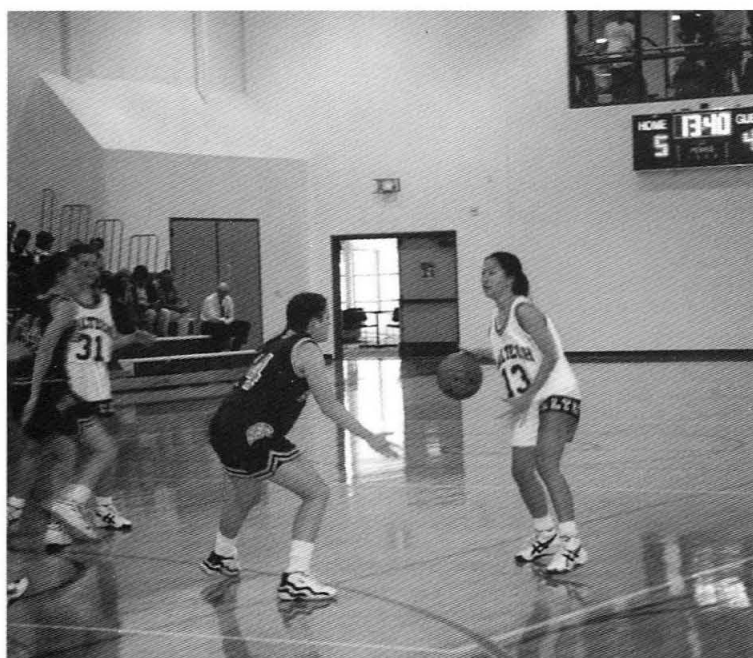
--Ricky Tong



Season Scores			
Caltech	366	Claremont	333
Caltech	344	Cal Lutheran	312
Caltech	347	La Verne	317
Caltech	369	Occidental	331
Caltech		Redlands	Forfeit
Caltech	352	Pomona	354
Caltech		Whittier	Forfeit
Caltech		Redlands (18 holes)	Forfeit
Caltech	357	Cal Lutheran (18 holes)	8th
Caltech	703	SCIAC Championship	8th
Caltech	369	Cal Baptist	321
Caltech	377	Chapman	344
Caltech	771	SCIAC, Torrey Pines	15th



# Women's Basketball



Sueanne Lee sizes up the competition while looking to pass.



The threat of Nasim Afsamanesh provokes the opponents to double team her.

## Season Record

Caltech	35	Christian Heritage	82
Caltech	40	Whittier	82
Caltech	40	La Sierra	45
Caltech	16	Sonoma State	70
Caltech	36	Mills College	42
Caltech	53	L.I.F.E. Bible	50
Caltech	46	Bethany	62
Caltech	23	Occidental	95
Caltech	20	Redlands	95
Caltech	25	Dominican	86
Caltech	34	Dominican	79
Caltech	29	Cal Lutheran	103
Caltech	35	CMS-JV	53
Caltech	29	La Sierra	76
Caltech	32	U. Santa Cruz	98
Caltech	45	Mills College	59
Caltech	21	Pacific Christian	81
Caltech	19	Christian Heritage	100
Caltech	58	L.I.F.E. Bible	44
Caltech	20	CMS-JV	34

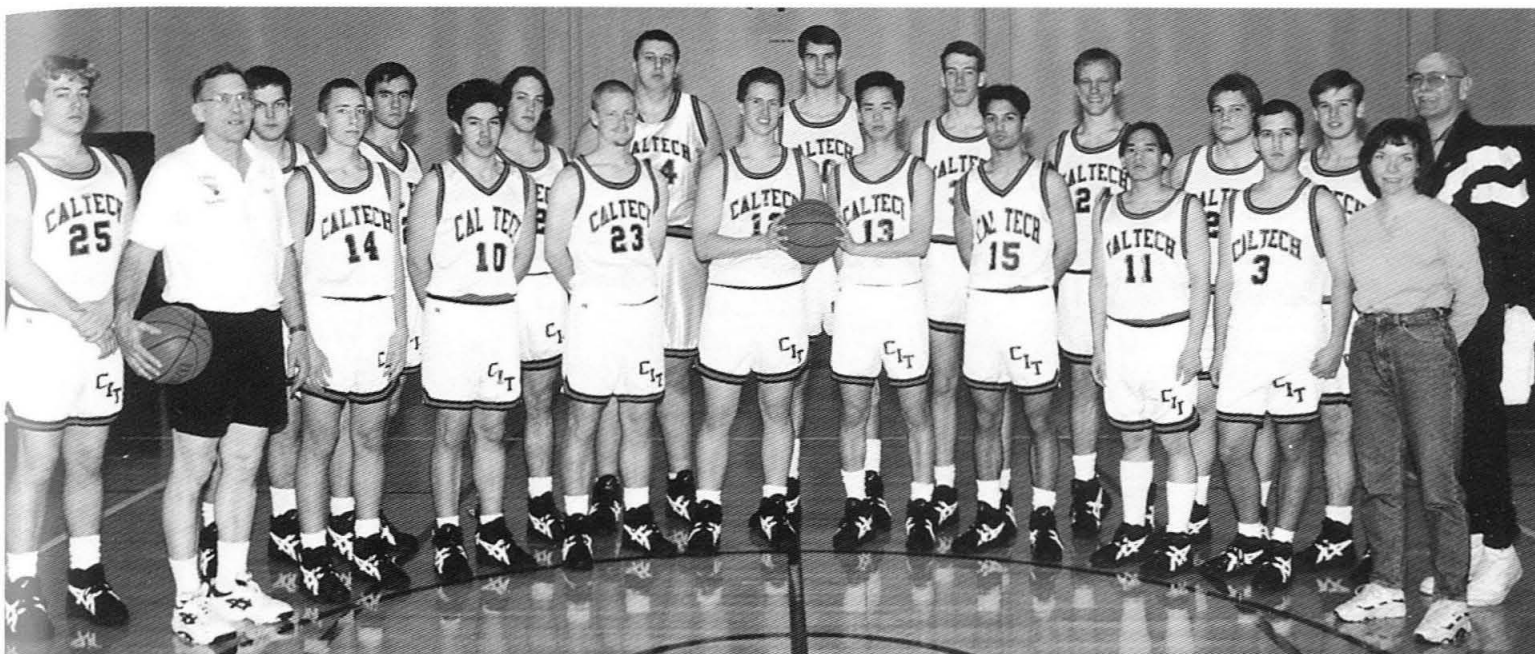
## School Honors

Captains: Lori Hsu, Irene Wong  
 Most Valuable Player: Erika Swanson  
 Best Defense: Irene Wong  
 Most Inspirational: Katie Stofer  
 Coaches' Award: Joanna Dodd



Back Row: Assistant Coach Jamie Weeks, Nasim Afsamanesh, Diana King, Erika Swanson, Svjetlana Miocinovic, Ellis Meng, Joanna Dodd, Kara Swedlow, Head Coach Michelle Kerzie Front Row: Amy Chang-Chien, Sueanne Lee, Irene Wong, Lori Hsu, Katie Stofer, Jennifer Cummings





Back Row: Jason Turner, Scott Lyons, Chris Miller, Michael Kulen, Peter Plavchan, Ben Turk, Bob Webbink, Brett Tolman, John Niccolai, Robert C. Johnson, Head Coach Gene Victor Front Row: Assistant Coach Fred Newman, Matt Musick, Casey Huang, Matt Hall, Josh Moats, Gilbert Yoh, Rajat Kongovi, Joseph Soriaga, Ben Brantley, Head Trainer Denise Gabaldon

# Men's Basketball

Commitment, effort...these are words that describe them. Intensity, sharp execution...these are ideas that describe their style of play. They are 1996-97 Caltech Men's Basketball Team. They gained the respect of their fellow conference teams with their attitude and their drive. They worked hard to be as good as they could be.

The season started with 18 players on the roster, filling the junior varsity and varsity slots. At the end of the season, after the last game was recorded, the same 18 players were still showing the same amount of dedication to the team.

Practice started on October 23, 1996. The team practiced or played six days a week until the season ended on February 26, 1997. This all serves as evidence of the mental toughness of the group and the high respect the teammates held for each

other.

The Beavers finished the season with a record of 4-17, but the win-loss statistic gives no indication of what the team was really about. The team thoroughly believed that they were playing for the "reason, not the season."

The starters for this year's Men's Beaver Basketball team included a freshman, a sophomore, a junior and two seniors. The future looks bright for the squad as many members, including five lettermen, are coming back. The team will be very competitive in the 1997-98 conference season.

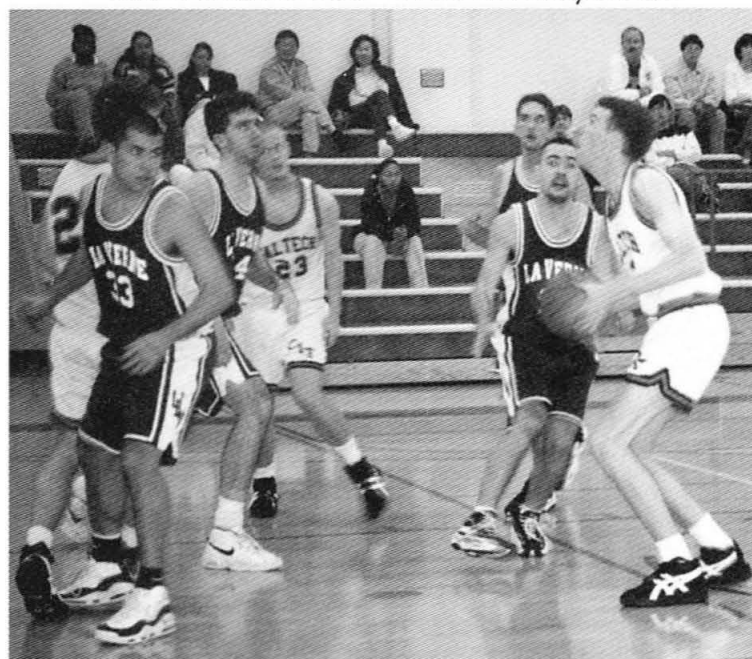
Sadly, the team will be losing its four seniors, who all deserve a lot of thanks. Josh Moats, Scott Lyons, Bob Webbink and Gil Yoh all were with the team for four years. Moats was a starter over this entire period. Scott Lyons also lettered all four years.

Ben Turk, a 6' 10" junior, was second team all

conference. He led the league in rebounding and was second in blocked shots. Locally, Ben also broke the school record for rebounds in a game with 21 rebounds against Occidental College, putting his name in the conference record book. Turk finished fifth in the nation in average rebounding at the Division III level.

The Caltech Men's

Basketball Team gained fame as a whole this year when the Cable News Network (CNN) ran a story on the history of the team. While the television spot brought forth the fact that the Beavers have not won a conference match in ten years, it emphasized the determination and commitment that the team most obviously shows.



The Beavers practiced hard for situations such as this one.



# Swimming

## Women's Season Record

Caltech	69	Whittier	103
Caltech	47	Occidental	168
Caltech	30	Pomona Pitzer	173
Caltech	62	Claremont	141
Caltech	162	Redlands	48
Caltech	78	Biola	98
Caltech	105	Whittier	79

## Men's Season Record

Caltech	145	Whittier	85
Caltech	88	Occidental	130
Caltech	76	Pomona Pitzer	140
Caltech	110	Claremont	148
Caltech	85	Redlands	158
Caltech	168	Biola	30
Caltech	169	Whittier	31

Team Captain: Keri Ryan  
 Outstanding Freshman: Hanna Kim  
 Martha Wayne Trophy: Phyllis Chen

Team Captain: Jim Pierce  
 Outstanding Freshman: Rudy Perea  
 Most Improved: Mike Fisher

Outstanding Diver: Liz Callaghan  
 Cambell Swimming Trophy: Jason Hong  
 Tough as Nails: Jennifer Holland

SCIAC All-conference meet

Liz Callaghan, 2nd place 1 meter diving  
 3rd place 3 meter diving

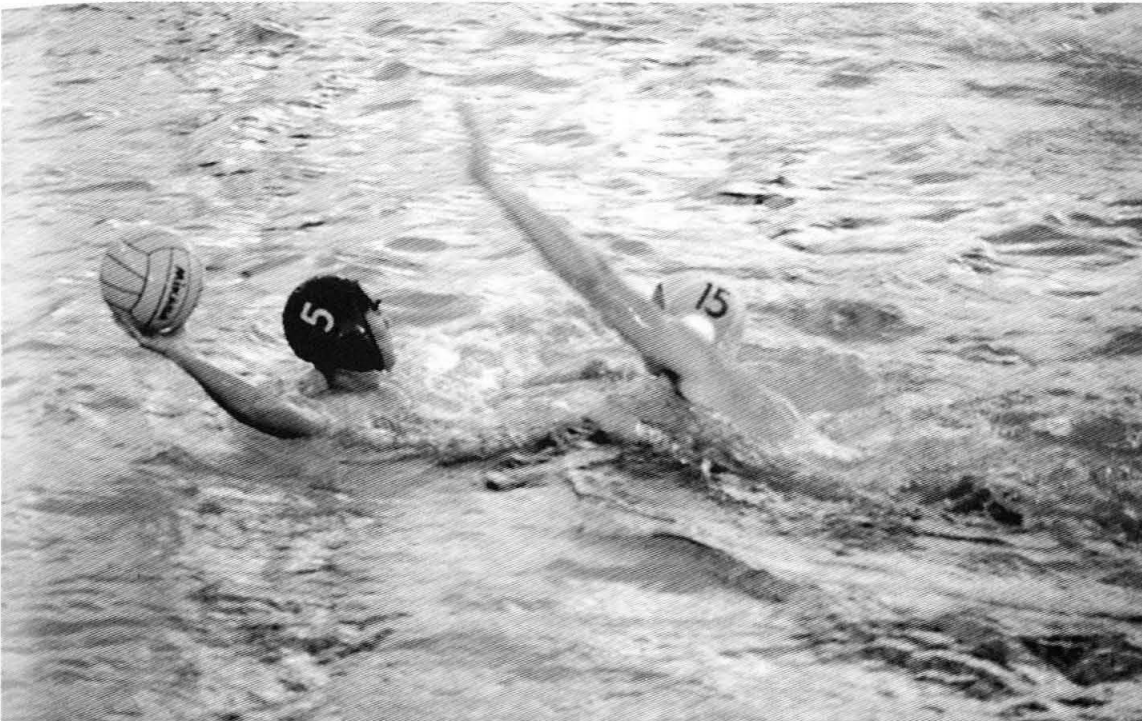
SCIAC All-conference meet

Jason Hong, 3rd place 100 meter Backstroke  
 Mike Fisher, 3rd place 3 meter Diving



Back Row: Assistant Coach Nikki Takarabe, Liz Callaghan, Jennifer Holland, Gina Serraiocco, Keri Ryan, Phyllis Chen Front Row: Nick Pornsinsirak, Joseph Lucas, Kumar Raman, Tim Yarnall, Wesley Tanaka, Keoni Puaa, Jim Pierce, Daniel Velez, Mike Grebeck, Phil Rodriguez, Brandon Horn, Brian Bircumshaw, Rudy Perea, Mike Fisher, Diving Coach Adam Burgasser, Head Coach Clinton Dodd





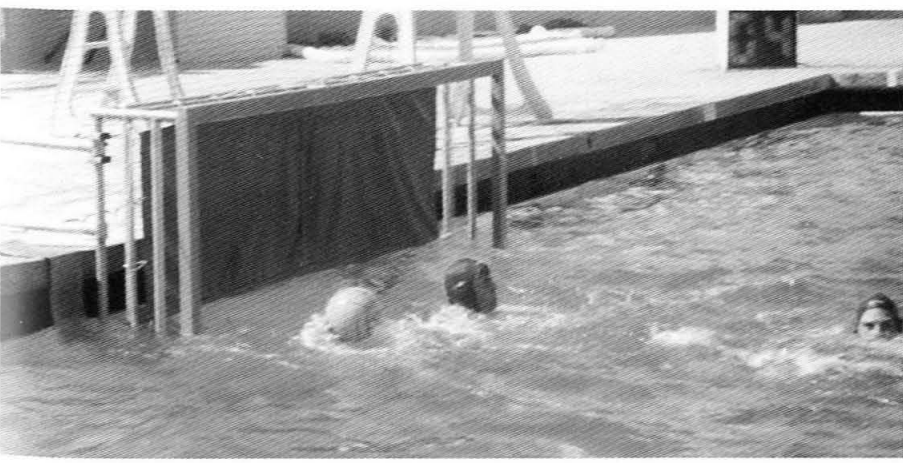
## Honors

This year, Caltech Water Polo athletes demonstrated their skills in numerous matches against a tough conference. Conference Honorable Mentions went to Jason Hong and team captain Brian Bircumshaw. The Coaches' Cup this year went to Brian Collins. B.J. Horne was named the Most Outstanding Freshmen. Mike Grebeck was named the most improved player.

## Season Record

Caltech	5	Loyola Marymount	23
Caltech	25	Chapman	15
Caltech	2	Loyola Marymount	22
Caltech	8	Cal Maritime	12
Caltech	8	Claremont	11
Caltech	6	Alumni	12
Caltech	9	Occidental	13
Caltech	6	Redlands	15
Caltech	5	San Luis Obispo G	21
Caltech	11	San Luis Obispo U	12
Caltech	11	Villanova	20
Caltech	5	Pomona Pitzer	21
Caltech	3	Claremont	12
Caltech	12	Whittier	23
Caltech	9	Redlands	16
Caltech	12	Occidental	23
Caltech	6	Pomona Pitzer	15
Caltech	2	Redlands	12
Caltech	6	Whittier	10
Caltech	2	Claremont	10
Caltech	3	Occidental	12

# Water Polo



Top Left: Passing is key in waterpolo, this player aims to make a strong throw to a team mate, around the opponents block.

Middle Right: A determined Beaver grapples with an opponent for possession of the ball, gaining the upper hand.

Bottom Left: Caltech's goaltender stops this attempt by the opposing team and determines what to do next.



# Women's Tennis



Back Row: Assistant Coach Fiona Lo, Lisa O'Rourke, Lena Petrovic, Alexis Johnson, Audrey Lee, Karen Nelson (Head Coach) Front Row: Irene Wong, Amanda Schaffer, Natsuko Kagawa, Amy Chang-Chien



Serving has been important to the Lady Beaver's winning season.



Lisa O'Rourke runs to return her opponent's volley.

The Caltech Women's Tennis team had eight dedicated players this year who worked together to garner an 11-8 overall record and tie for 5th place in the conference. Juniors Natsuko Kagawa and Alexis Johnson finished the season with the top singles records for the team at 15-7 and 12-7 at the #3 and #1 positions, respectively. Johnson teamed up with sophomore Amy Chang-Chien for the #2 doubles team to finish with a dominating 13-3 record. Kagawa paired with senior Lena Petrovic for the #1 doubles team, finishing with a strong 12-5 record.

For the second year in a row, the Beavers were honored with the highly regarded SCIAC Team Sportsmanship Award. This award is voted on by each women's tennis team in the conference. This marks the third time the Caltech Women's Tennis team has won the award since its inception in 1991. Also for the second year in a row,

Alexis Johnson received 2nd team All-Conference honors. The team is pleased with these outstanding and well-deserved accomplishments.

The team members voted on the team awards. Co-Team Mentor Alexis Johnson was named the Most Valuable Player. Team Captain Irene Wong was voted the Most Inspirational Player. The Most Improved Player was Audrey Lee. The Player's Award went to the other Team Mentor, Amy Chang-Chien. The coaches voted on the Coach's Award winner, Natsuko Kagawa.

The 1997 squad was a close knit group who played with a lot of heart and team spirit. It was an exciting season for everyone. Caltech alumnus Fiona Lo (Class of '92) brought her smiles and stories to the courts as she helped out this season. The team is sad to have to lose senior Lena Petrovic and 3-2 transfer student Natsuko Kagawa for next season.





Matthew Musick awaits his opponents return.



This eager beaver is all set when the ball comes!

### Season Record

Caltech	5	Whittier	4
Caltech	6	Biola	3
Caltech	0	CalBaptist	9
Caltech	0	Claremont	9
Caltech	0	Redlands	9
Caltech	3	Whittier	5
Caltech	3	Biola	4
Caltech	0	Chapman	9
Caltech	0	Pomona Pitzer	9
Caltech	8	LaVerne	1
Caltech	0	Dominican	9
Caltech	7	Menlo	2
Caltech	9	College of Notre Dame	0
Caltech	0	Chapman	9
Caltech	8	LaVerne	1
Caltech	0	Cal Lutheran	9
Caltech	2	Occidental	7
Caltech	0	Claremont	6
Caltech	7	Whittier	2
Caltech	1	Occidental	8

### School Honors

Co-captains: Ronak Bhatt , Jason Jenkins

Co-Most Valuable Players: Ronak Bhatt, Jason Jenkins

Most Imporved Player: Stefan Kazachki

Coach's Award: Matthew Musick

# Men's Tennis



Left to Right: Wade Gillam (Head Coach), Kanwar Kahlon, Matt Musick, Stefan Kazachki, Eric Dennis, Kevin Richberg, Jeff Custer, Felix Ng, Ian Swett, Jason Jenkins, Ronak Bhatt, Gade Miller, Dazhi Chen, Albert Hsiao





The Beavers won't let this opponent steal a base.



Above: The batter eyes the pitcher's attempt to strike him out



Bottom: The pitch explodes off the mound.



Back Row: Assistant Coach Frank Monzon, Matthew Sullivan, Jason McCoy, Head Coach John D'Auria. Front Row: Jeremiah Smith, David Greg Fricke, Matthew Dawson.

# Base

The 2-25 record posted by the California Institute of Technology Baseball team does not come close to showing what a successful season the Beavers had. In terms of player development and attainment of team goals, the year was an extremely successful one. Numerous talented newcomers made a contribution to the team as they gained experience this year. With these players returning, the future looks bright for next year's more mature and experienced group.

Coach John D'Auria calls freshman Greg Fricke "the best player I've had the pleasure to coach in my eight seasons here," and coach

D'Auria has coached ball players over period. Fricke positions this season catcher and pitcher. Fricke batted .417 over conference games. He was team vote for Most Valuable Player. Freshman was elected to All-Conference 2nd team, and was voted on by all the conference teams. It seems a fitting phenomenal year.

Junior R. was voted Most Improved. His fellow team finished second in batting with a Freshman Jeremiah





Barnes, Roopesh Doshi, Miles Shuman, Alan Rosenwinkel, Steven Hiller, Kevin Bradley, Rob Tyron, Grant Williams, Marty "Jon" Allen,

# eball

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Rob Tyron was  
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nd in team  
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iah Smith was

a big contributor to the team, doing two thirds of the catching this season. Smith shared the Most Valuable Freshman award with Greg Fricke. Roopesh Doshi, the lone Senior on the team, had a good year at third base and will definitely be sorely missed next year. A four-year letterman, Doshi also won the Coach's Award, which was determined by the coaches of the baseball team.

Coach D'Auria expects the experience and player development gained through the teamwork of this season to pay off with a promising team for the coming year.

**Bottom:** An exciting play takes place at second base.

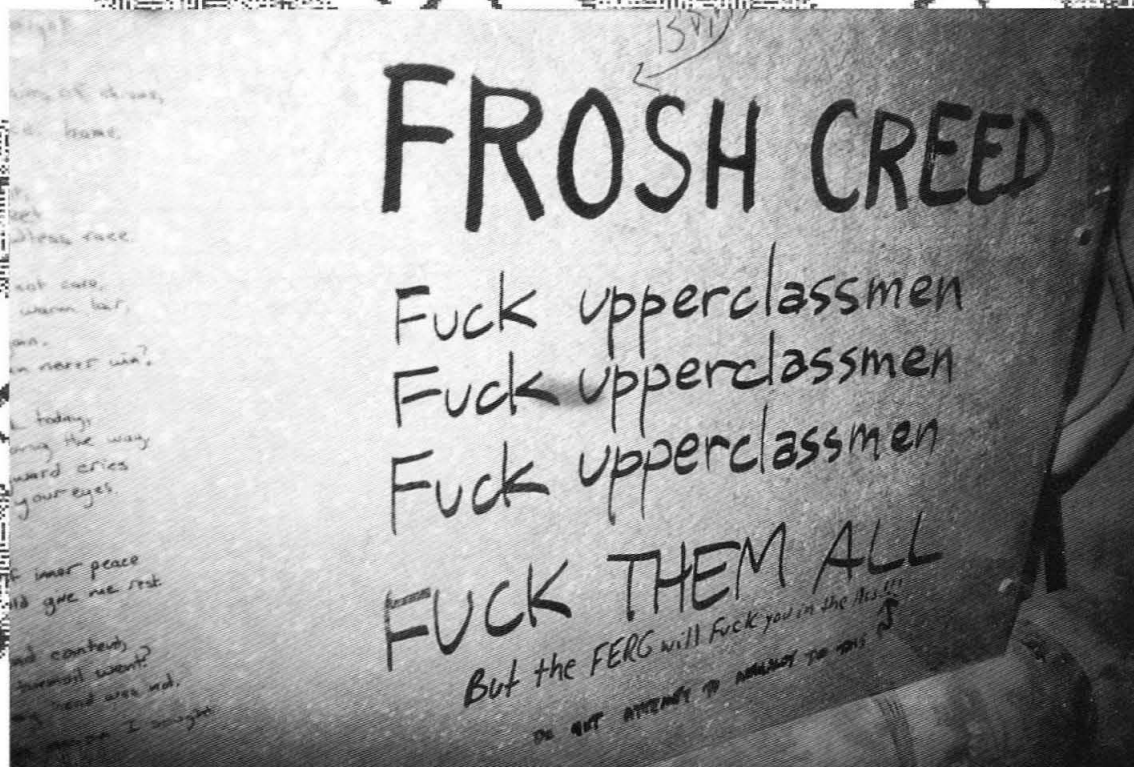


Team members keep an eye on what is going on even after scoring a run.



**Above:** This player is all set for anything the opposing pitcher has to offer.





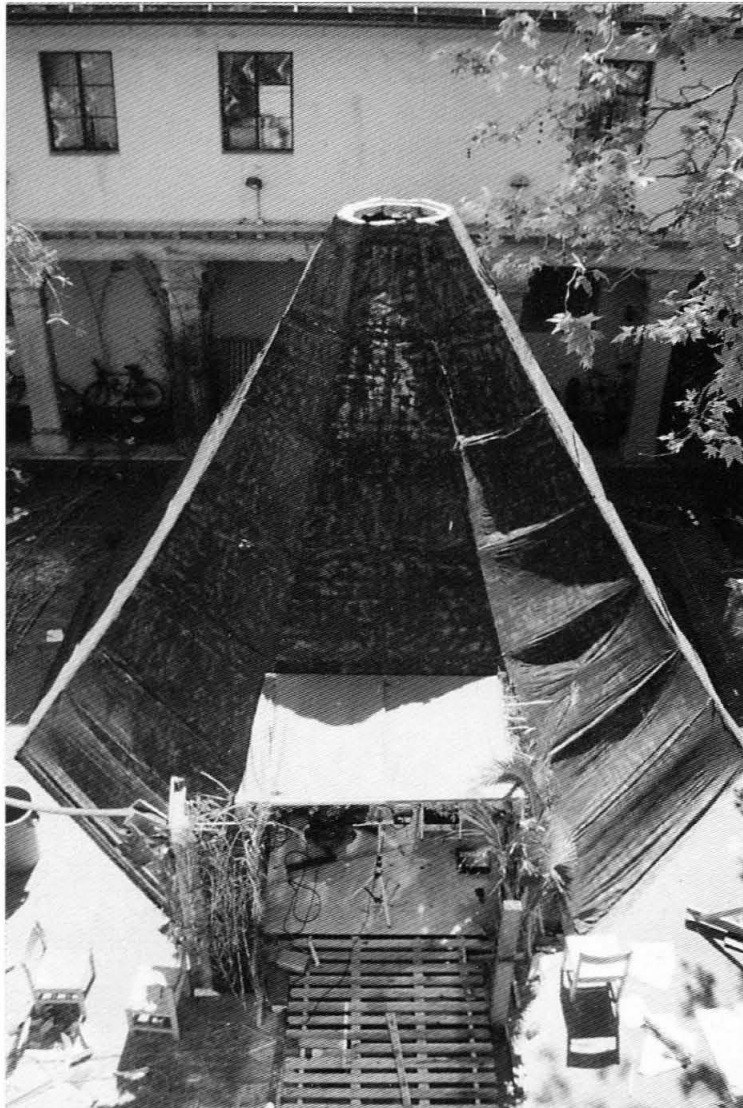
HOUSES



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# Blacker Hovse



Once again, the upperclassmen came back from the summer to find a flock of frosh wandering around the hovse. After spinning them around, only 26 remained. Their ignoble failure in the Lounge Run upset the Master, and all were dispatched before finals.

Second term breezed in and brought elections with it. Apathy was beaten back for a while with eleven candidates vying for President, and numerous choices for all other offices. (Social team wannabes: "Our plan is to take the entire year's social budget to Vegas and put it all on black....") With Interhovse fast approaching, the scourge of courtyard cleanliness was also dealt a blow, as lumber, power tools, and a small forest worth of bamboo were converted into a giant mess, and eventually to a two story volcano in a full jungle setting, featuring bridges around a flooded courtyard and a waterfall off the 5A balcony.

Somehow, seven thousand pounds of concrete were purchased for Interhovse but never used. Not wanting to waste them, the frosh moved the concrete up to Hell, working it all into the first and last Infinite Time Hell Ride. Many happy hours were spent for the rest of the year chipping concrete back out of Nathan's sacrificial room.

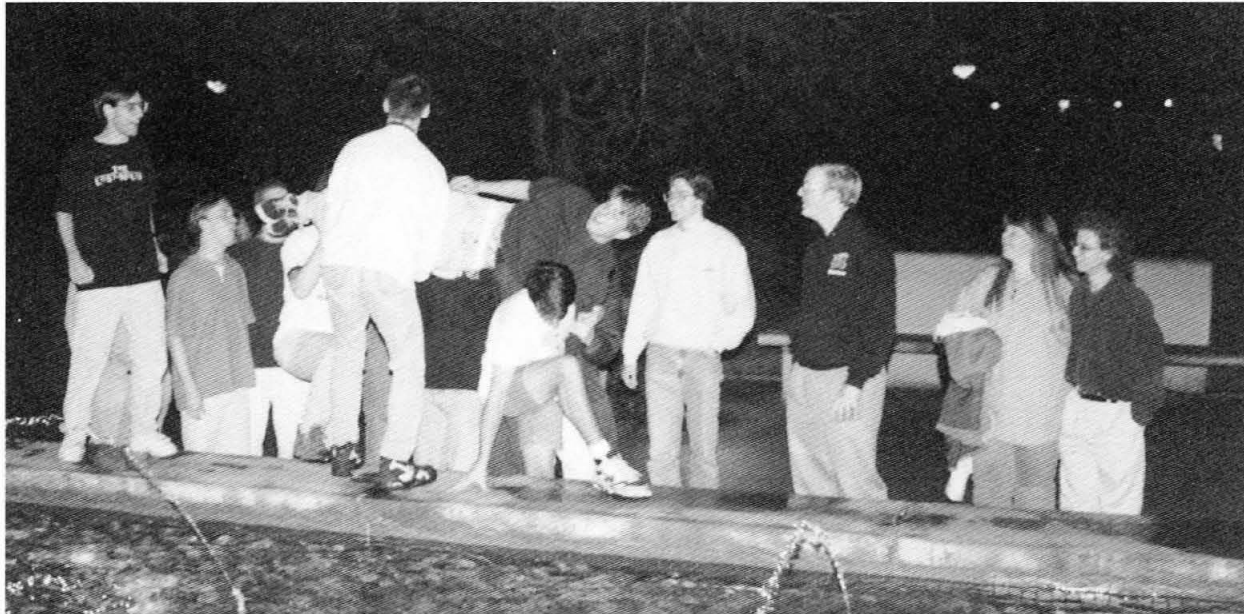




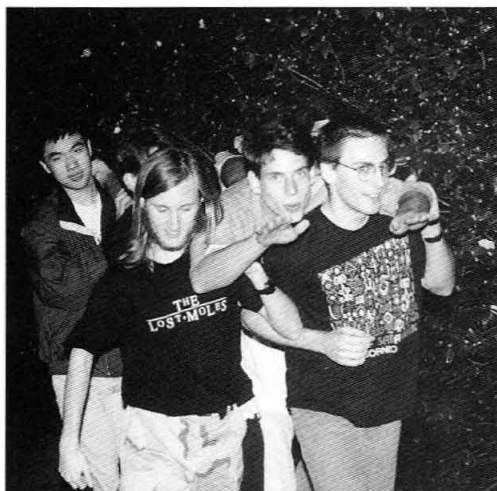
Bill's magic eight ball tells him who the next president will be. Did it also tell him he would be Veep with Joe?



Presidential inauguration rights.

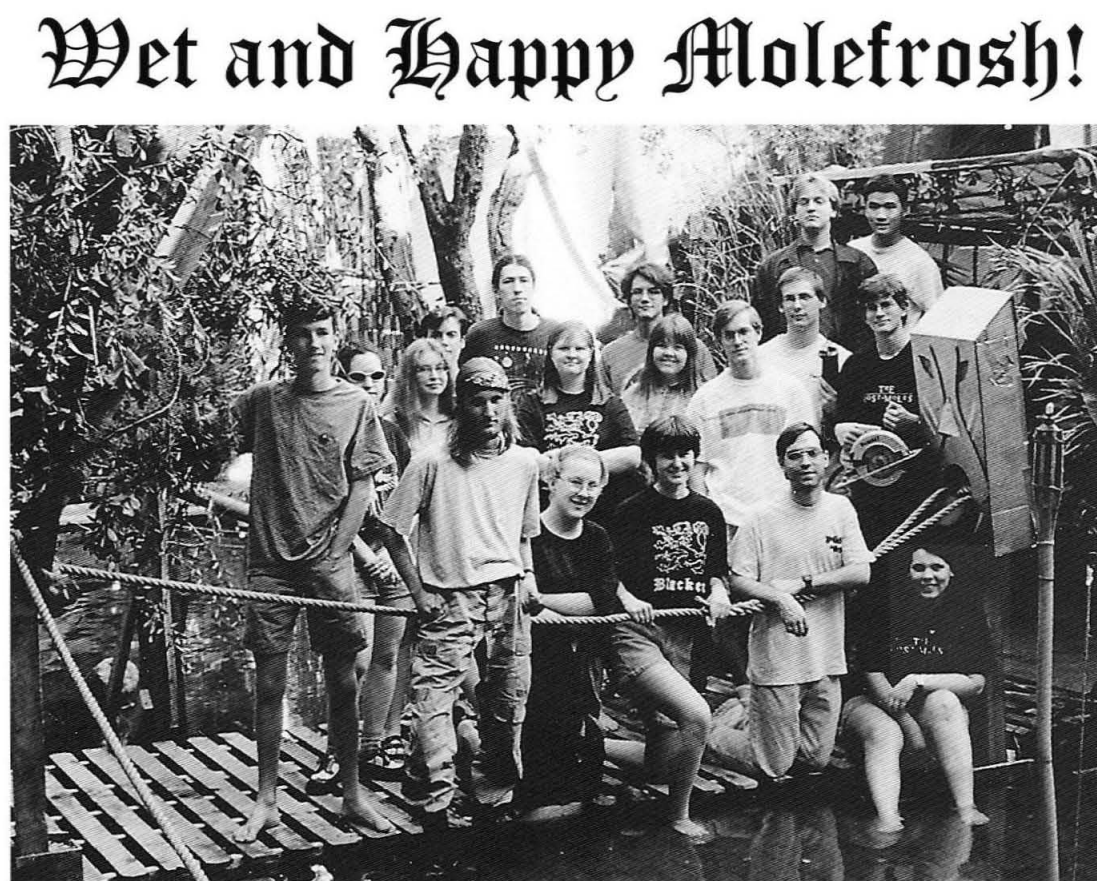


Marty meets the Gene Pool.



Ryan surfs on Frosh to the pond. (left) His superpowers give out when he tries to fly over the water. (above)





Moles, frosh and upperclassmen, relieve the stress of Rotation. Flems make great stress toys...

Frosh: (clockwise from top left) Kjerstin Easton, Nathan Schara, Anne Kelly, Nicholas Breen, Kristine Nielson, Ian Shapiro, Jen Yang, Wren Montgomery, Clifford Hicks, Juna Kollmeier, Troy "Duckie" Lee, Maura Raburn (transfer), Andrew Childs, Kacie Shelton, Rafi Rubin, Robert Enright, Michael "Ryan" Cox, Xin Liu (transfer), Adrianne Hylldahl, Yifan Yang, Amy Barr, Mike "Fitz" Fitzgerald, Eric Hale, Kevin McCarty, Hannah Peck, Steve Mueller, Jon "Marty" Allen (permafrosh), Bill Penn (permafrosh retained control of the Presidency), Benta Kipp (RA), Tom Lloyd (RA)

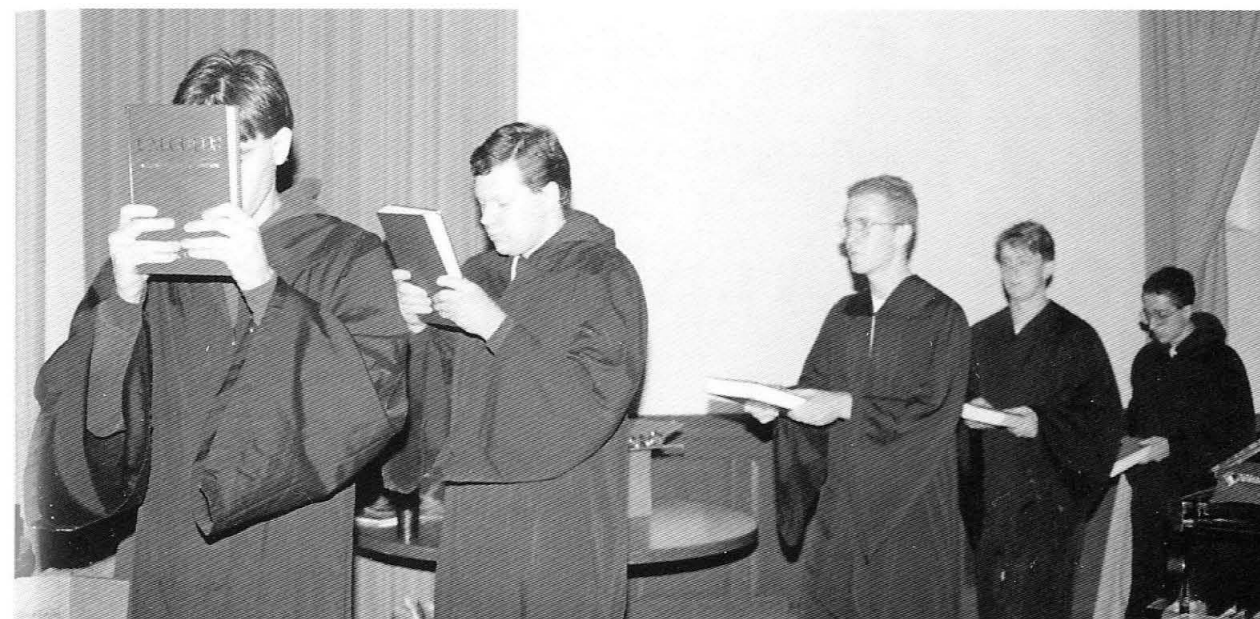




**BLACKER**  
CONSTRUCTION COMPANY

*Changing the world to suit our needs.*  
γδβγ

**BC**



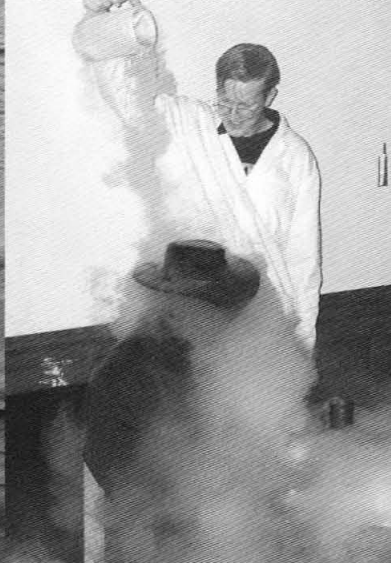
Blackerwise from upper right: Your guarantee of quality work - ask for us by name. The Tommyknockers chant their way into the dining room. "Repeat after me: 'I, a lowly frosh...'" The Lloyd gong takes an involuntary vacation outside of Bridge. Nicholas reaches a state of inner peace after mixing concrete all night. Kristine grins maniacally as Ryan fills tires.



# S'mores

Pictured (l-r): Jim Buckwalter, Kyle Alvine, Micah Dedmon, Joe Carroll, Erik Streed, Allison Roberts, Travis Williams, Matt Komsthoeft, Mike Stone, Oliver "Odie" Dial III, Dan Leonard, Dave Tytell, Walt Ogburn, John Chodera, Ryan Chornock, Noah Arribas-Layton.

Pictured Below: Mike Atkin, Ellen Martin, Peggy Gabriel, Amy Chang-Chien, Kurt Klein.  
Not Pictured: Dave DeVault, Aimee Pierce, Vlad Gluzman, Matt Hage, Jeremy Kemper, Tanya Evans.



Dave watches as the frosh build Interhovse. Travis, WaitOR, dumps with LN2. Walt makes COWS fly at the Secret Santa Party.



Santa (aka Gloria) already knows if Bucky's been good or bad this year.

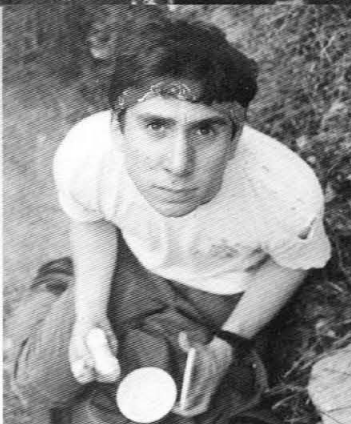
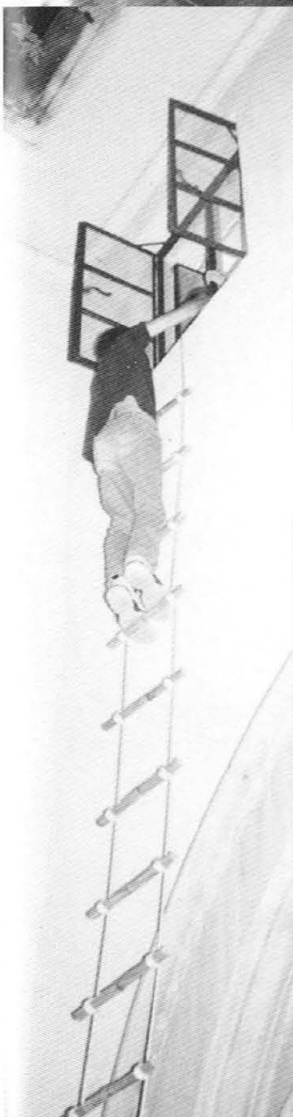
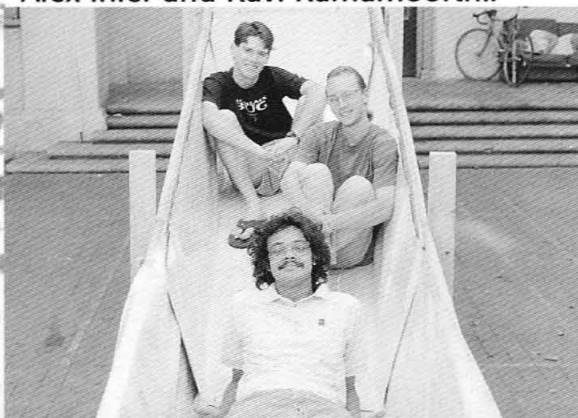


Tanya and a gun...

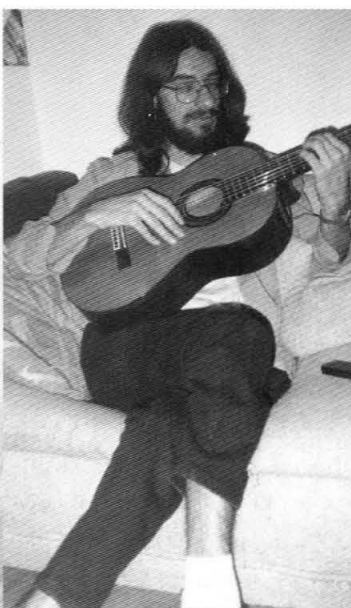
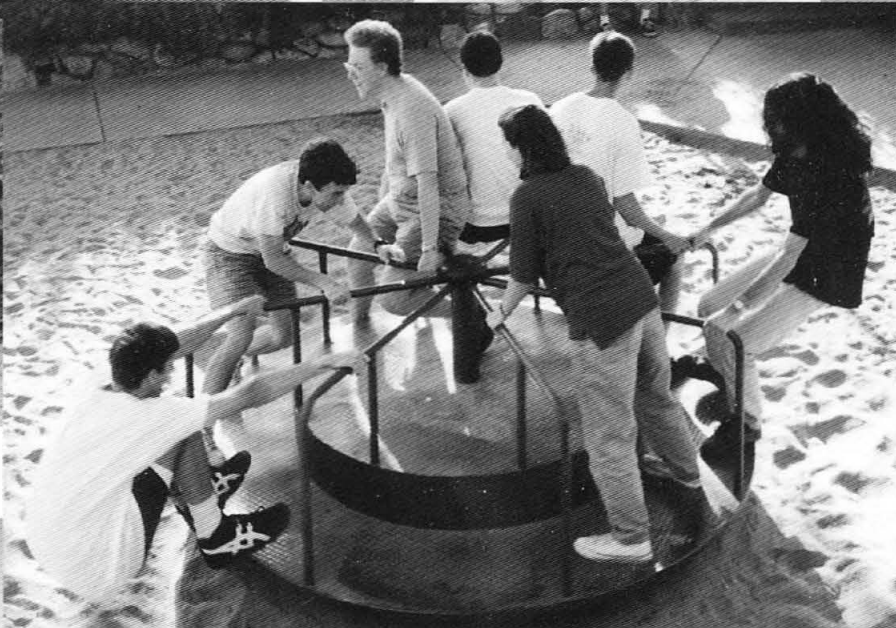




Back (l-r): Brian Tiemann, Dan Hennessy, Rob Tryon, Tim Henson, Ben Turk, Jon "Marty" Allen. Middle: Jeanne Wilson, Advoquita Stude, Brian Rothstein, Leah Foechterle, Nat Anagnostou, Karen Bletzer. Front: Payam Pakzhad, Jim Pierce and Shane Ross. Not Pictured: Ryan Bacon, Michaelleen Callahan, Mike Davies, Dave Hilbert, Roy Koczela, John Lin, Devon McClain, Christina Molodowitch, Peter Oakley, Fay Peng, Mike Rhoads, Jesse Rosenstock, Thanh Tran. Pictured below: Matt Tiscareno, Alex Ihler and Ravi Ramamoorthi.



## Juniors







## Seniors

(l-r) Top: Mike Stage, Sebastian Maurer, Samson Timoner. Standing: Lada Adamic, Kanna Shimuzu, Rae Yip, Cyrus Behrooz, Tom Niday, Krishna Kant, Jeff Miller, Mike Fox, Bradey Honsinger and Cailin Henderson. Sitting: Bill Penn, Vandana Desai, Sam Foster. Not pictured: Margaret Belska, Catherine Boone, Zane Crawford, Jason Heiss, Amy Herr, Ben Lane, Noah Malmstadt, Damien Martinez, Doris Tsao, Gloria Xu, Ning Zhang.

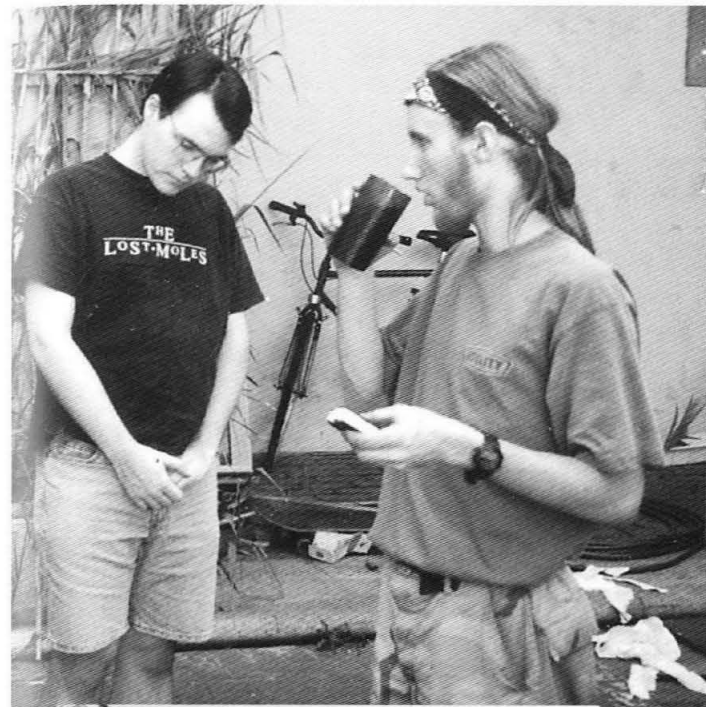


Counterclockwise from top left: Jason enjoys his construction, Six Flags over Blacker. Samson enjoys 50 Days. Sam prepares for an Alley Challenge. Amy, Catherine, and Cailin put the finishing touches on their stack. Who knows what Jason, Noah and Zane are up to? Mike, Jason and Jeff pause during Library Ride. Seniors on the waterslide after Ditch Day.





# Jungle Interhobse



To left: Dan bows before the might of Nathan and Dr. Pepper.  
Above: The volcano under construction.



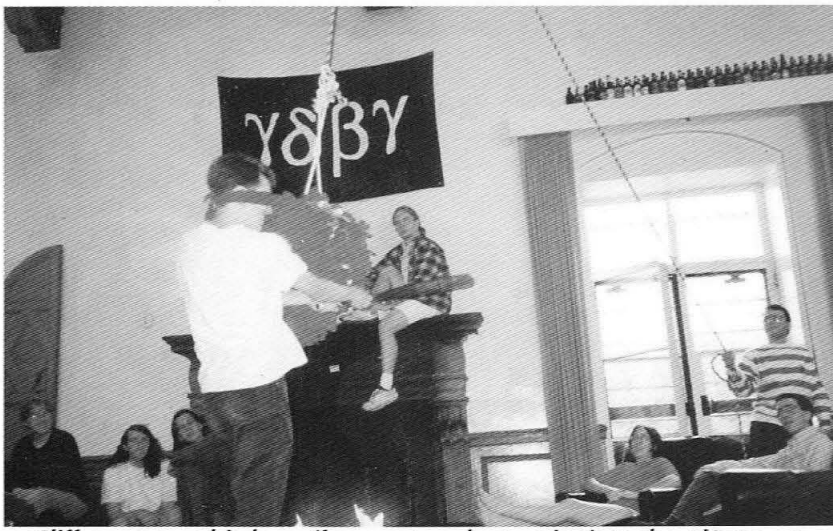
Above: Travis adds finishing touches to the rope.  
To left: Cliff touches up the creative masterpiece "Tree" as Ricketts disappears under glistening waterfalls of black plastic.  
Below: After the party, it seemed more like "Hurricane Interhobse."



The party's brilliant play, "The Hunt for the Orgasmatron."



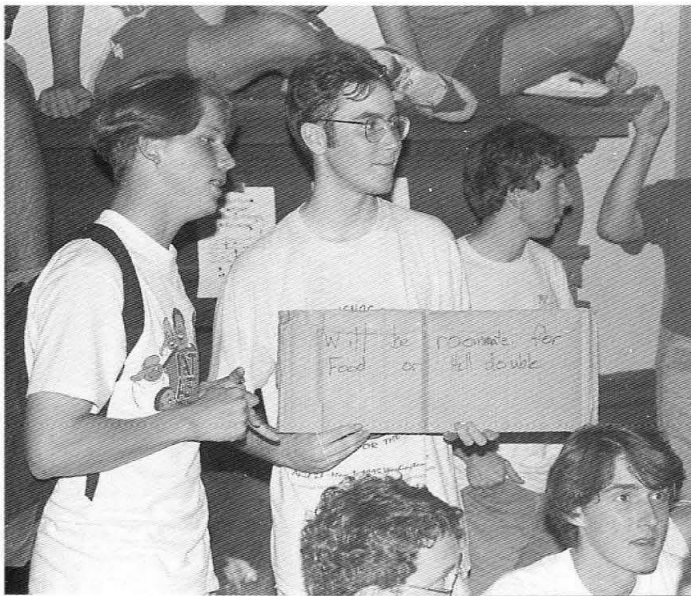




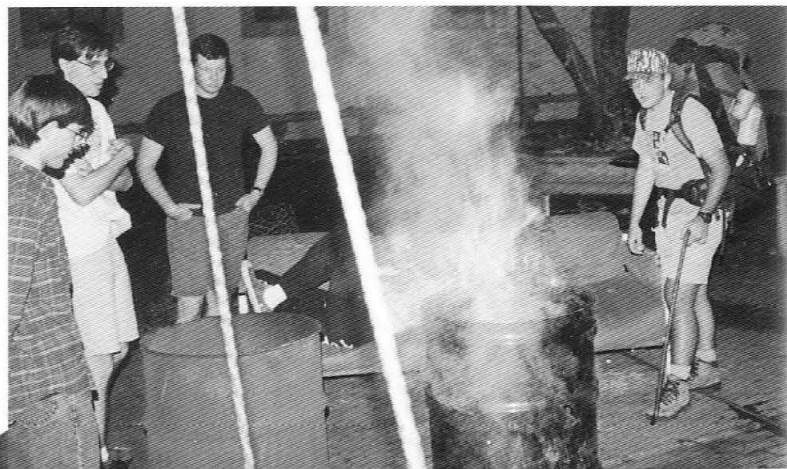
Cliff expresses his love (for wanton destruction) to the piñata, as Wren, Dan Leonard, Micah, Odie, Allison, Dan Hennessey and Samson watch.



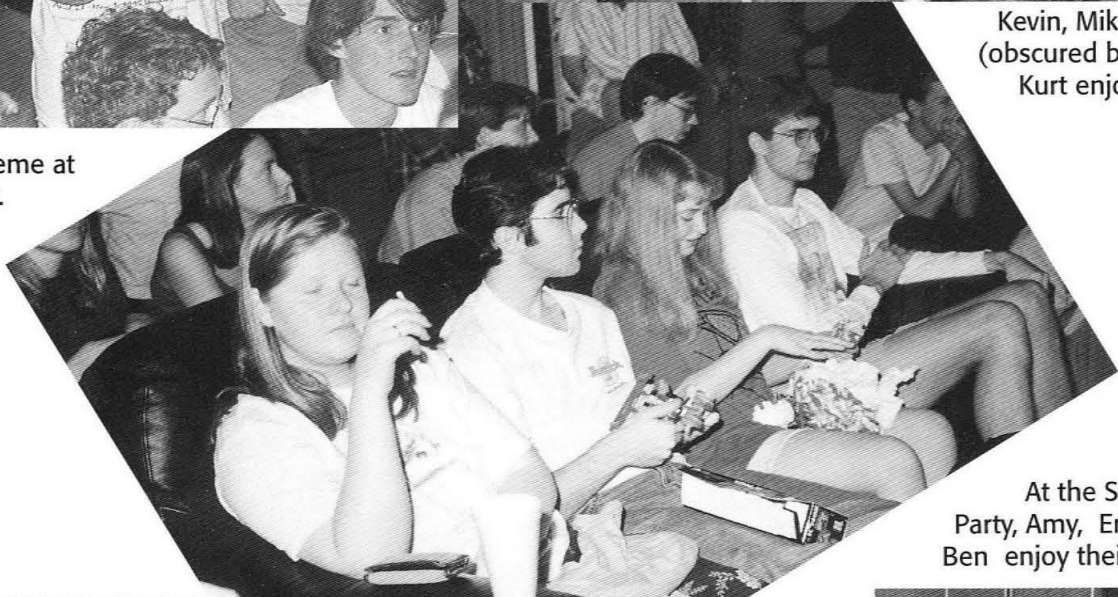
Former RA John Salmon serves up turducken for Dan, Samson and Jeff at Thanksgiving.



Bucky and Eric scheme at the fall room pick.



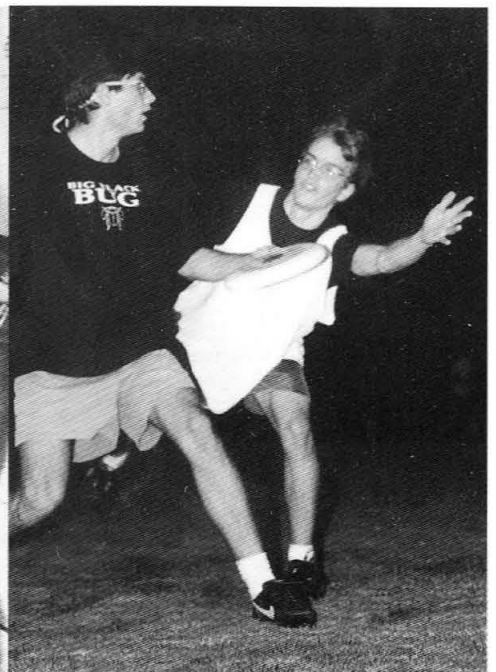
Kevin, Mike Fox, Jeff, Bill (obscured by smoke) and Kurt enjoy a fire in the courtyard.



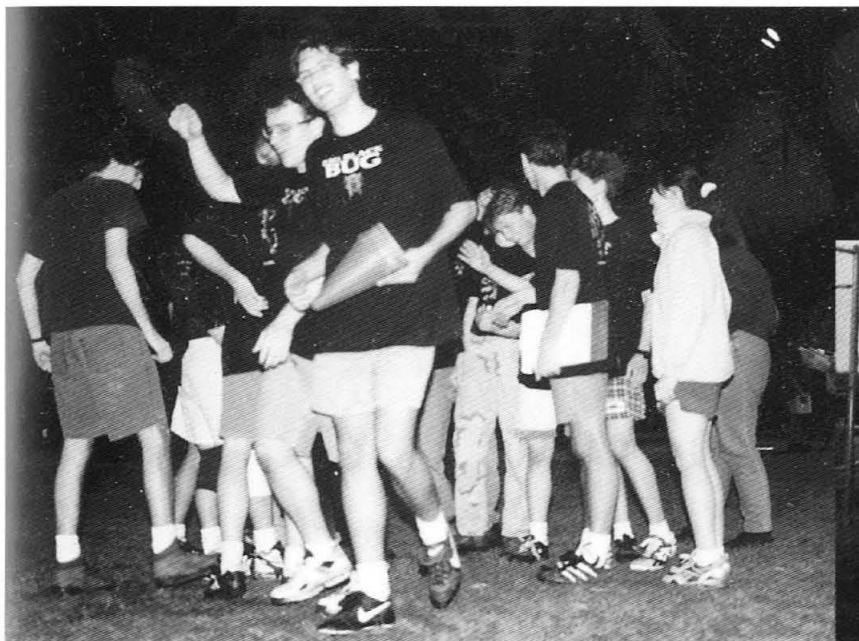
At the Secret Santa Party, Amy, Eric, Kris and Ben enjoy their new toys.







## Big Black B.U.G. —



Top left: Christina and Sam come head to head in the wild alley challenge of Blindfolded Shopping Cart Racing. Top right: Joe steals the disc from Jim Krehl. Above: the victorious Blacker Ultimate Gang. Right: Jeanne on the zip line, Jeff at shotput and broomball against the Rudds.

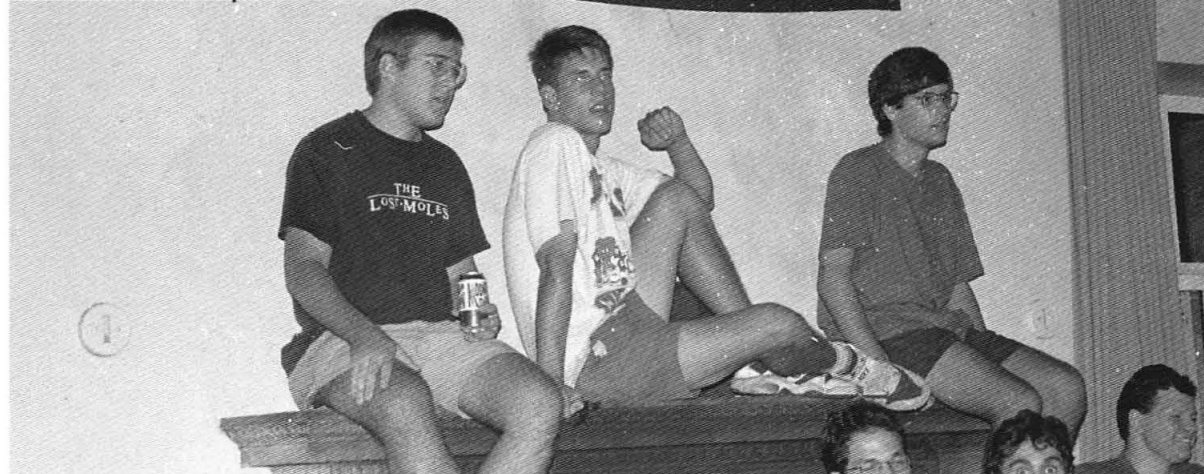
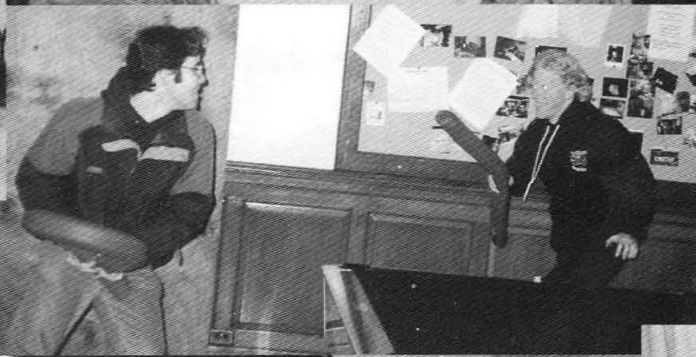


## Squish, Squish, Squish.





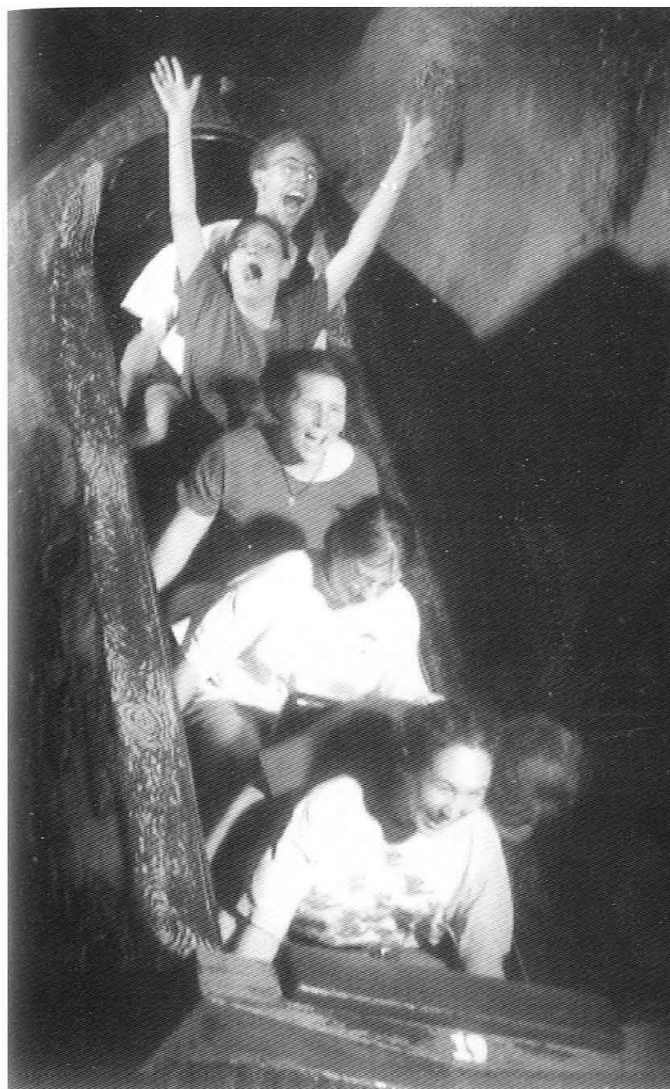
Above: More alley ordering. To right: Eric and Matt fight with fun noodles. Further right: Juna gets dirty. Jason takes a break. Below: Kurt, Ryan and Joe have the best seats for the roompick.



To right: As a frosh, Kristine knows the importance of her Tommy. Below left: Dan covets the comics. Ryan Cox, a frosh on grades. Kyle, Fay, Maura, Vlad and Ryan enjoy Six Flags Blacker, while the Housekeeping guy is amazed.







Clockwise from top left: Tim, Sam, Jeanne, Donna, Christina and Dave Relyea take a wild ride at Disneyland. While moles are best known for setting fires, Firemen Tom and Marty also enjoy putting them out. Nikita in the courtyard. Mike's Can of Whup A\*\*. The Pope, Amy and Cailin welcome the frosh. Spaz, from above. Hannah and Steve atop Mt. Wilson. Don't try this at home — unless you live in Hell. Nathan reveals that, while a good band-aid and finger protector, duct tape is hard to get off. John examines his TFM while Peggy sighs. Fitz and the lion in Las Vegas.





# DABNEY HOVSE

*THE HOUSE OF LOVE, FURNITURE, AND PALM TREES*



*HISTORIAN:*

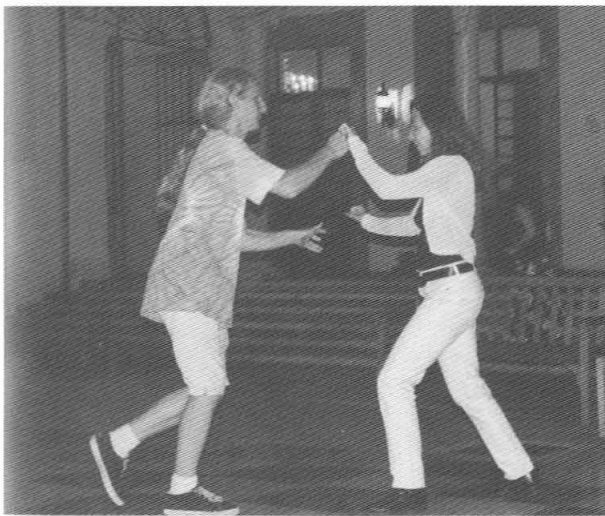
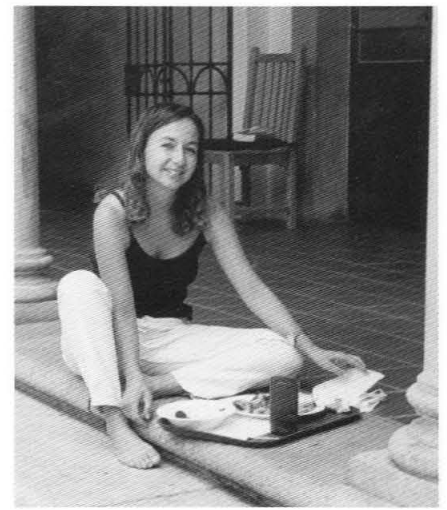
*SARAH MILKOVICH*

*ADDITIONAL PHOTOS COURTESY:*

*VALERIE ANDERSON, ALEX DUNN,*

*REBECCA JONES, DULE MISEVIC, MILES SHUMAN, KHAI-SU TE*



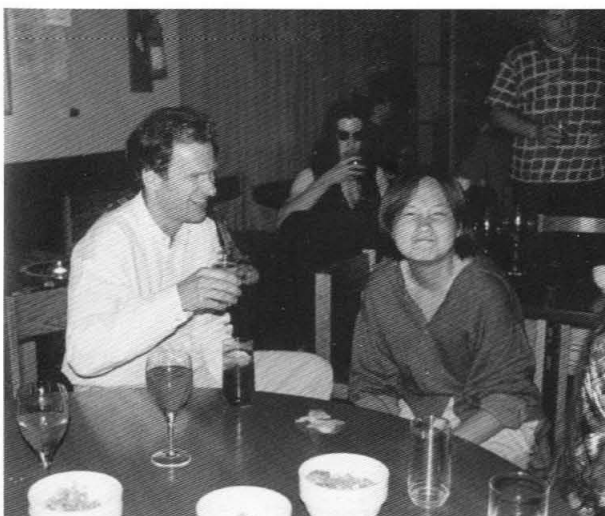


*Dear Markus and Franziska,*

*You have added so much to Dabney these past two years, from death hikes to Swiss culture. We will all miss you. Good luck and take care.*

*Love,*

*Dabney Hovse*





# Freshmen



Top: Amanda Blasius, Melissa Parish. Middle: Kudah Mushambi, Kim Harle, George Chung, Rory Sayres. Bottom: Alberto Mendez, Charless "Monty" Fowlkes, Keoni Puaa, Gabe Au, Matt Paul, Sarah Milkovich, Lilach Somberg. Standing: Jonathan Fisher. Sleeping: Angie Han, the Lorax. Not Shown: Josh Adams, Chris Berger, Louis Cisnero, Juna Kollmeier, Ashley Saint-Fleur, Kevin Schulz, Kayla Smith, Agi Wojciechowska.

Top: Val Anderson, Autumn Looijen, Chris Bartok, Rory McKenna, Eric Fischer. Bottom: Geoff Matters, Cliff Ellgen, Kristian Delacruz, Samantha Howarth, Miles Shuman.

Not Shown: Kurt Campbell, Juancarlos Chan, Petr-Nicolae Chebeleu, Yevgeniy Dashevsky, Dann Dempsey, Patrick Drew, Sander Granat, Rebecca Jones, Daniel Kaplan, Tatsuki Kashitani, Todd Mitchell, Stavroula Otis, Ann Stimmler, Wesley Tanaka, Daniel Zilberman.

# Sophomores





# Juniors

**Top:** Alex Dunn. **Bottom:** Jim Krehl, Mikey Herrera, Dule Misevic, Vicky Tanusheva, Myfanwy Callahan, Wei-Chung Lee, Lori Hsu, Khai-su Te.  
**Not Shown:** David Benson, Ronak Bhatt, Elizabeth Callaghan, Kevin Carle, Eric Dennis, Brian D'Urso, John Grossman, Evan Hurowitz, Jason Jenkins, Hui Jin, Dan Kleiman, Jose Mendez, Niniane Wang, Dave Zito.

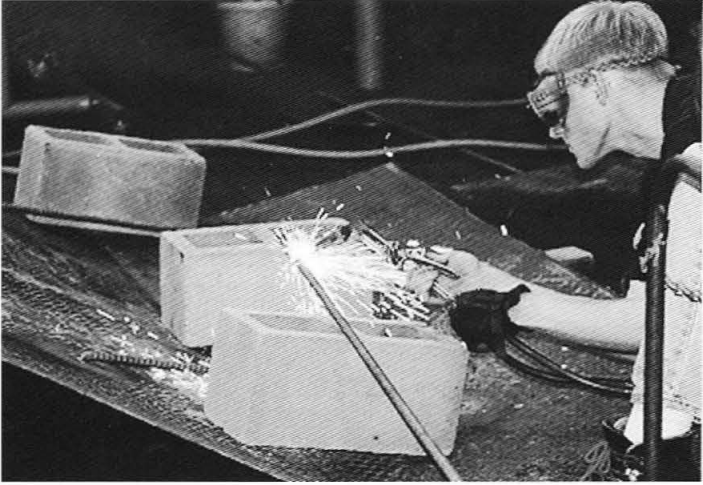
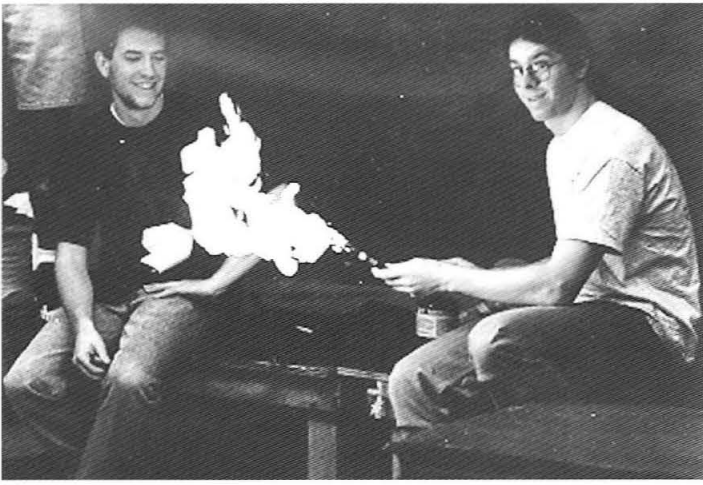


# Seniors

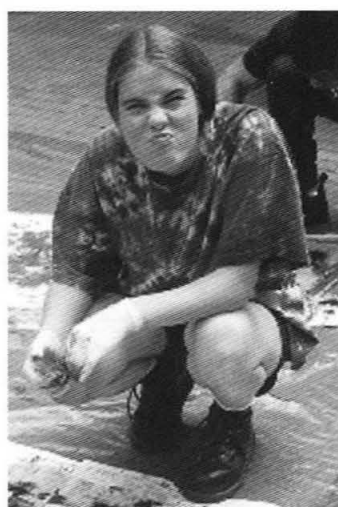
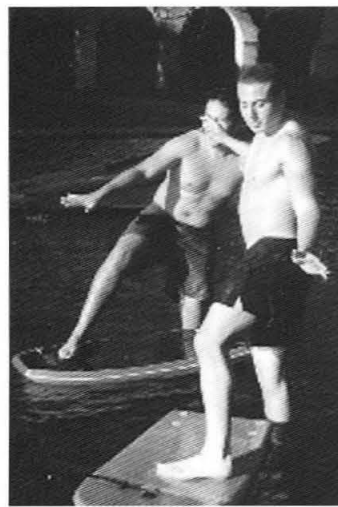


**Top:** Igor Polishchuk, Joe Trela. **Bottom:** Seth LaForge, Ollie Wild, Neal Dalal, Chris Walker.  
**Not Shown:** Yani Copas, Anna Heimann, Cailin Henderson, Hee Kim, Alf Mikula, Aaron Passey, Anil Roopnarine, Marco Santos, Luke Weisman, Eileen Wexler.

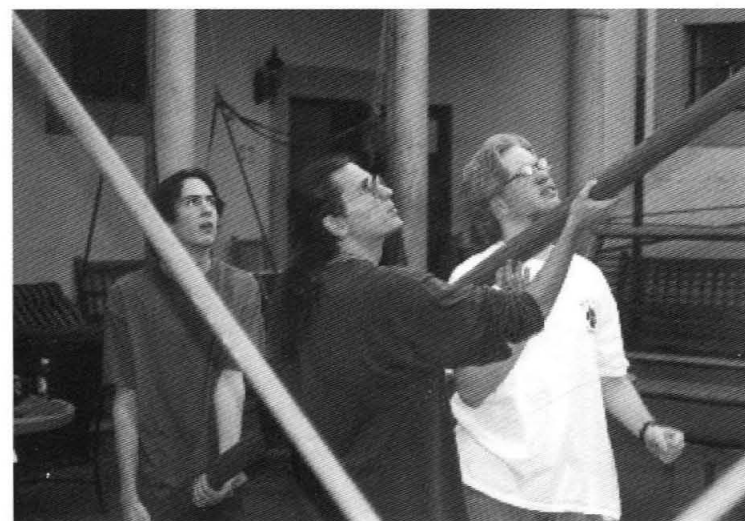
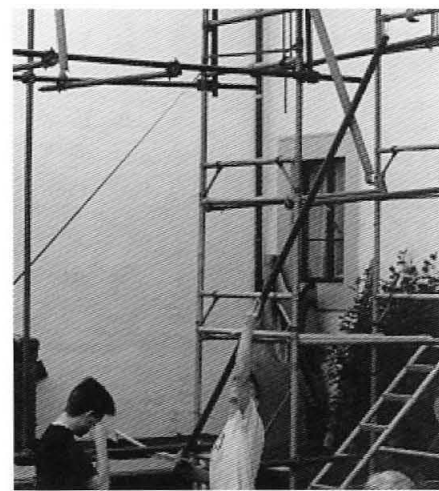
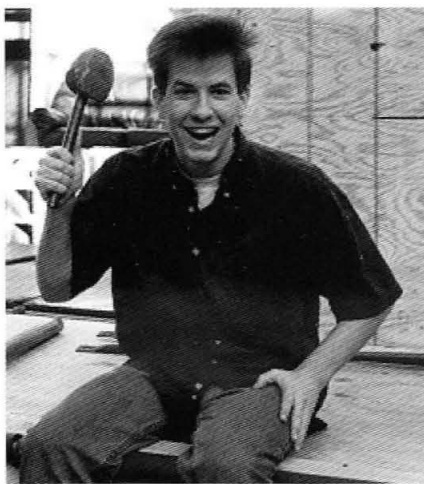
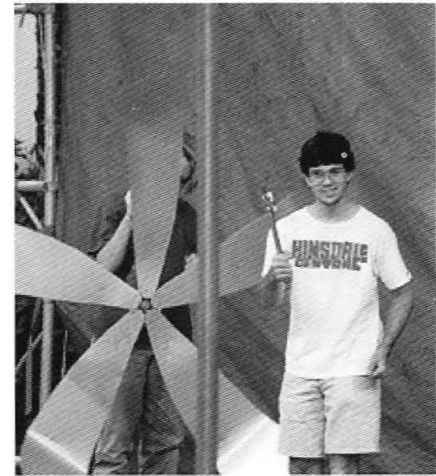
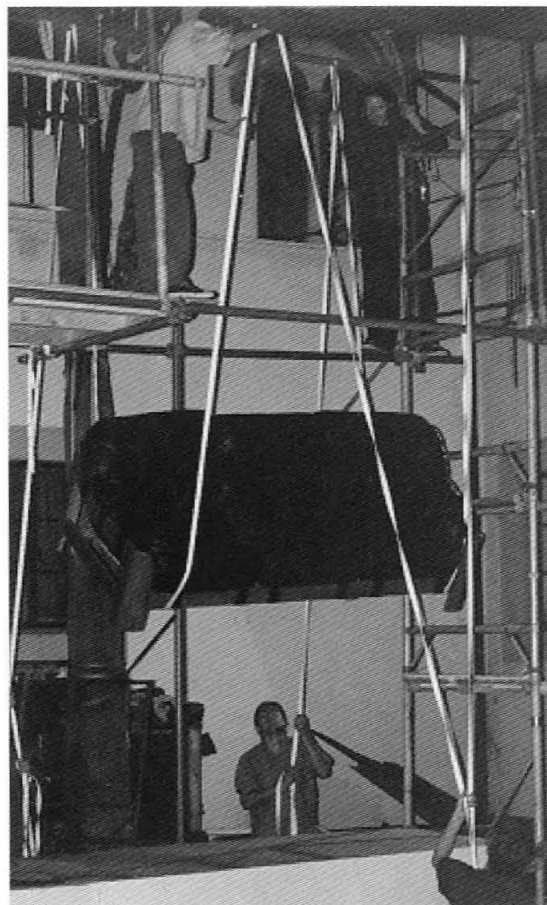




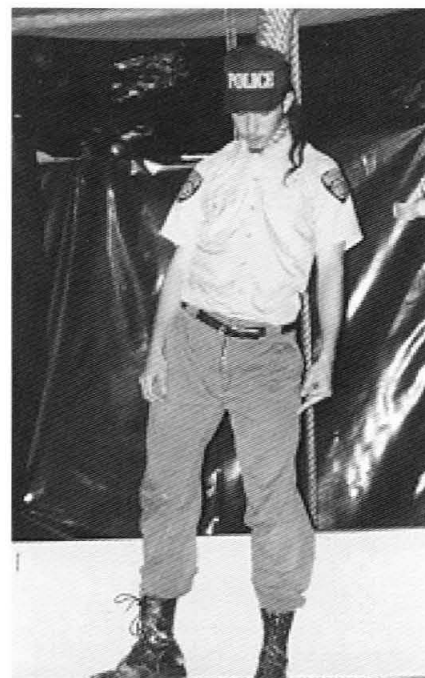






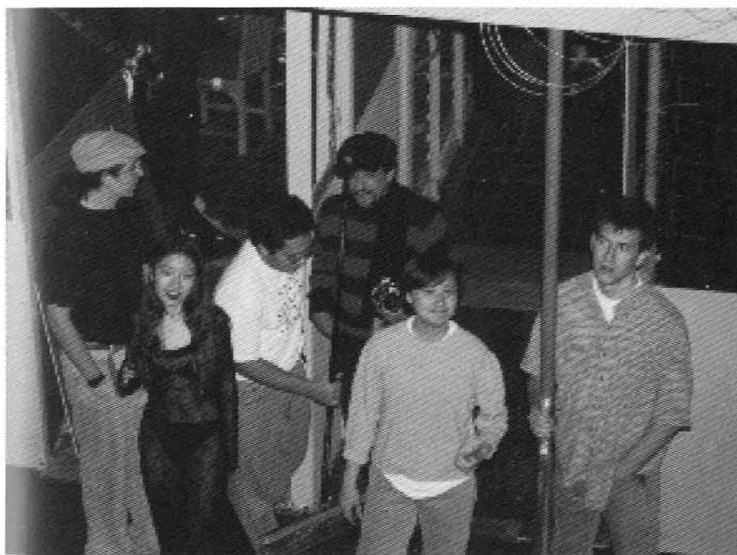




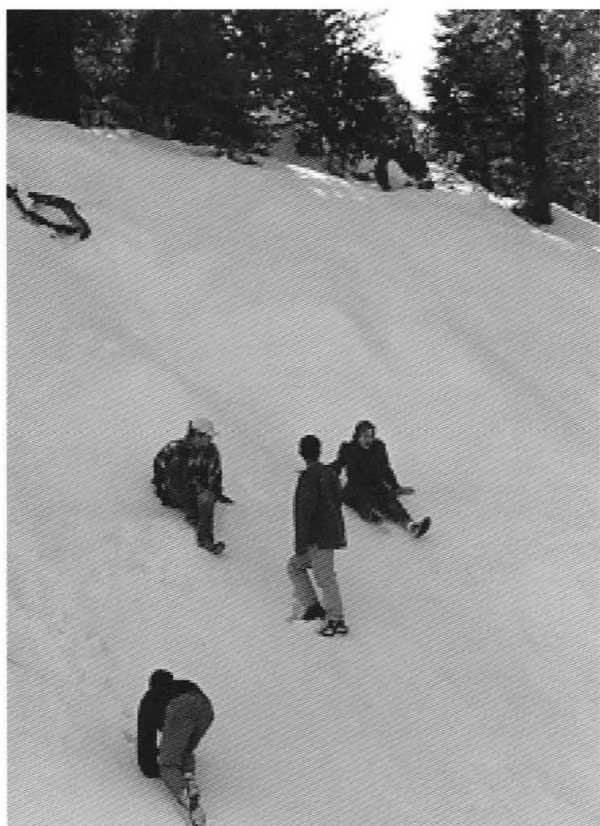
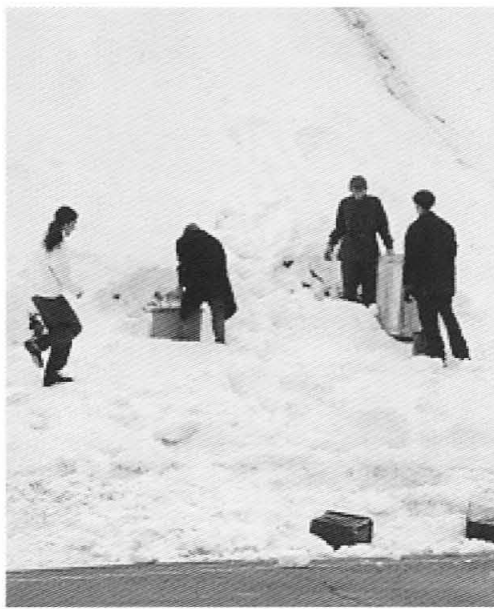
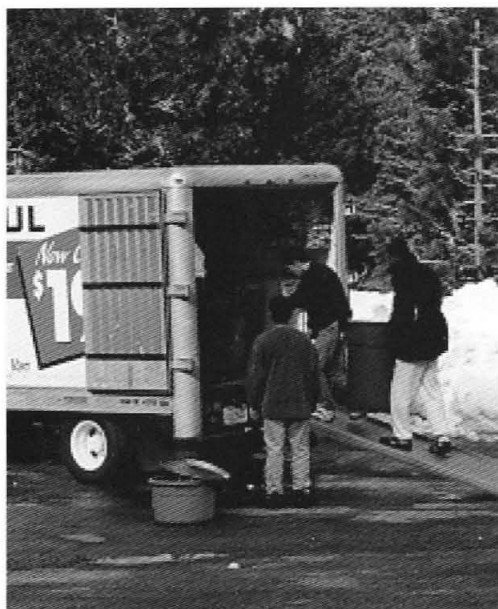


## INDUSTRIAL PARTY

# *FIVE YEARS AND NO PAROLE*



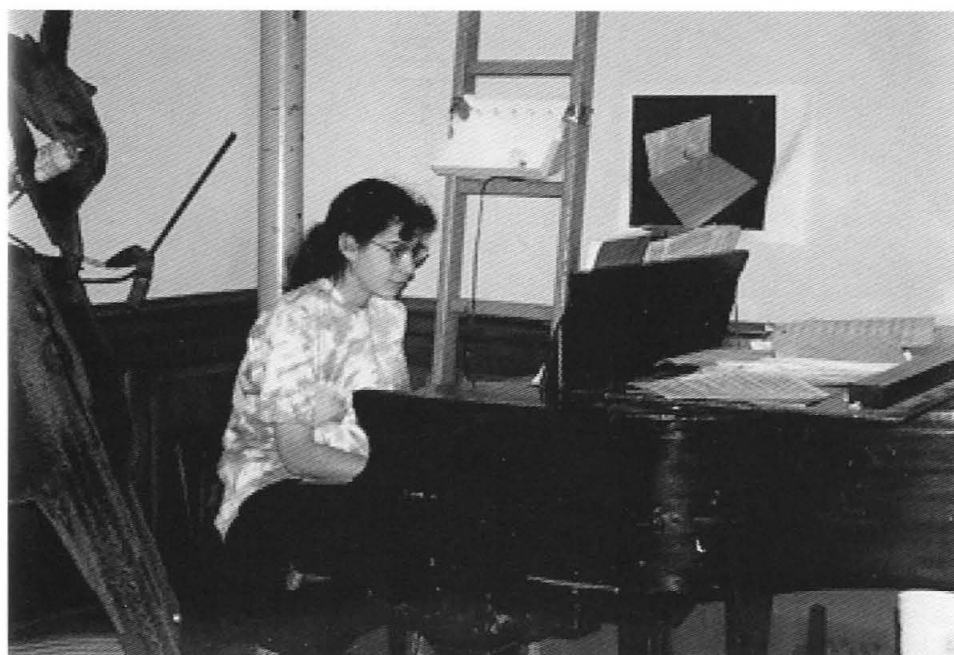
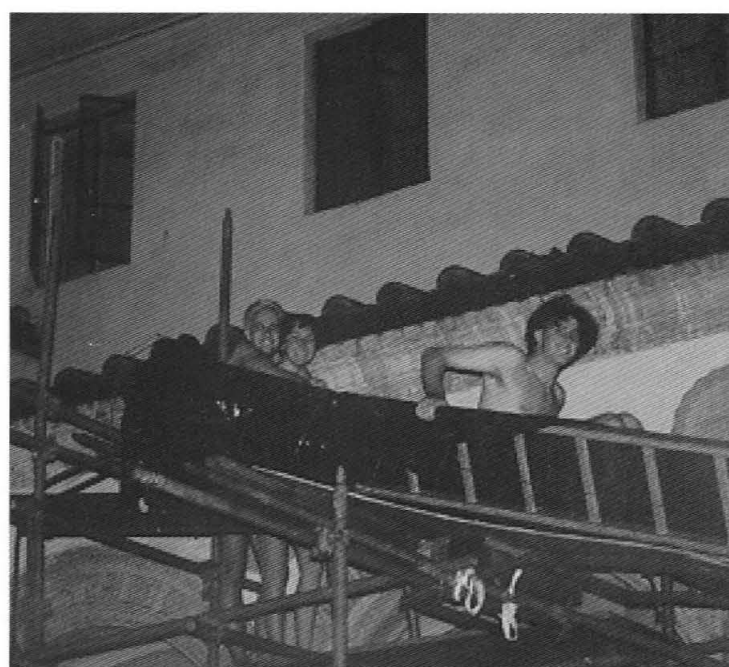
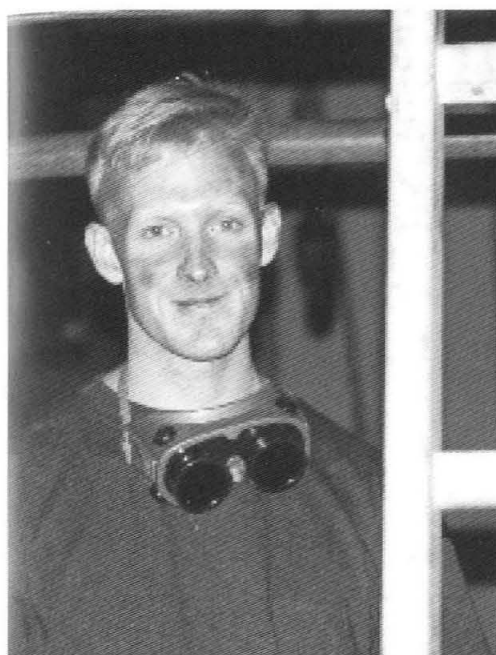




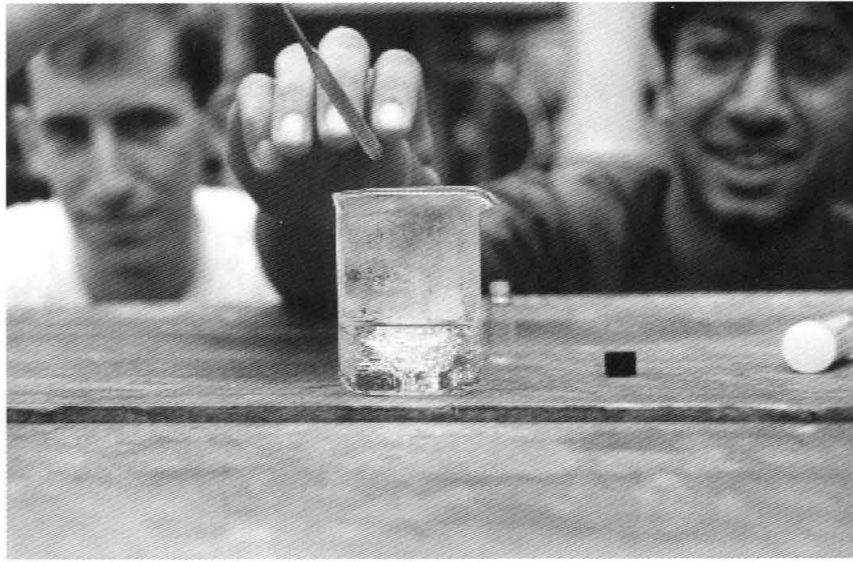
# *Inuit Freedom Day*







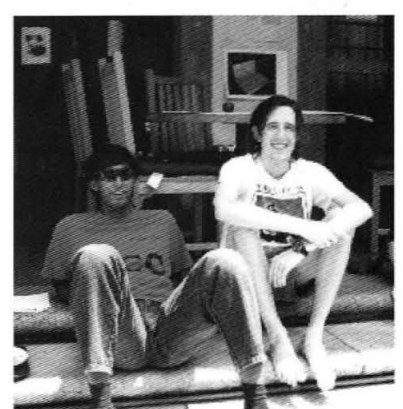
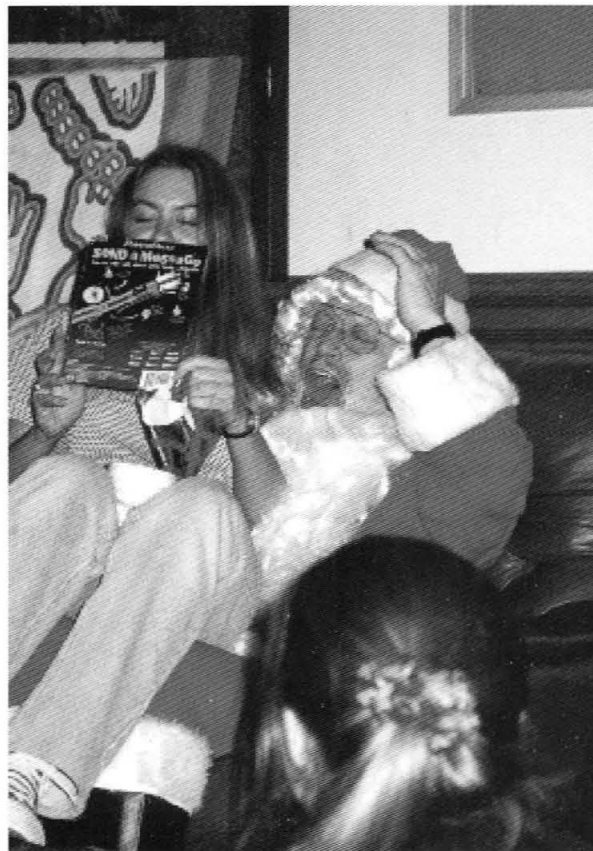
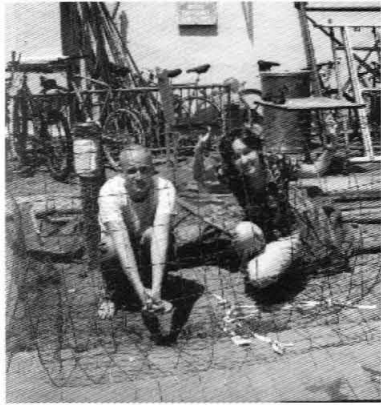
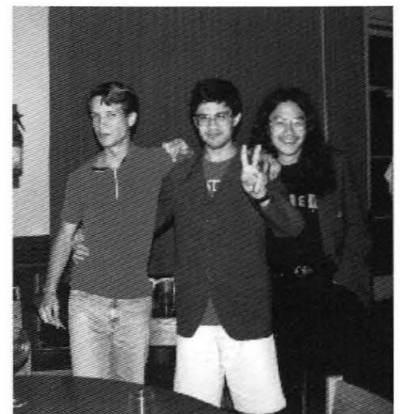
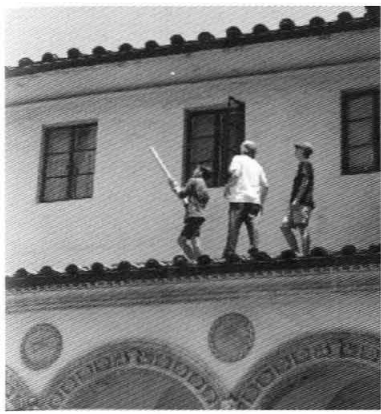




# Ditch Day & KELROF

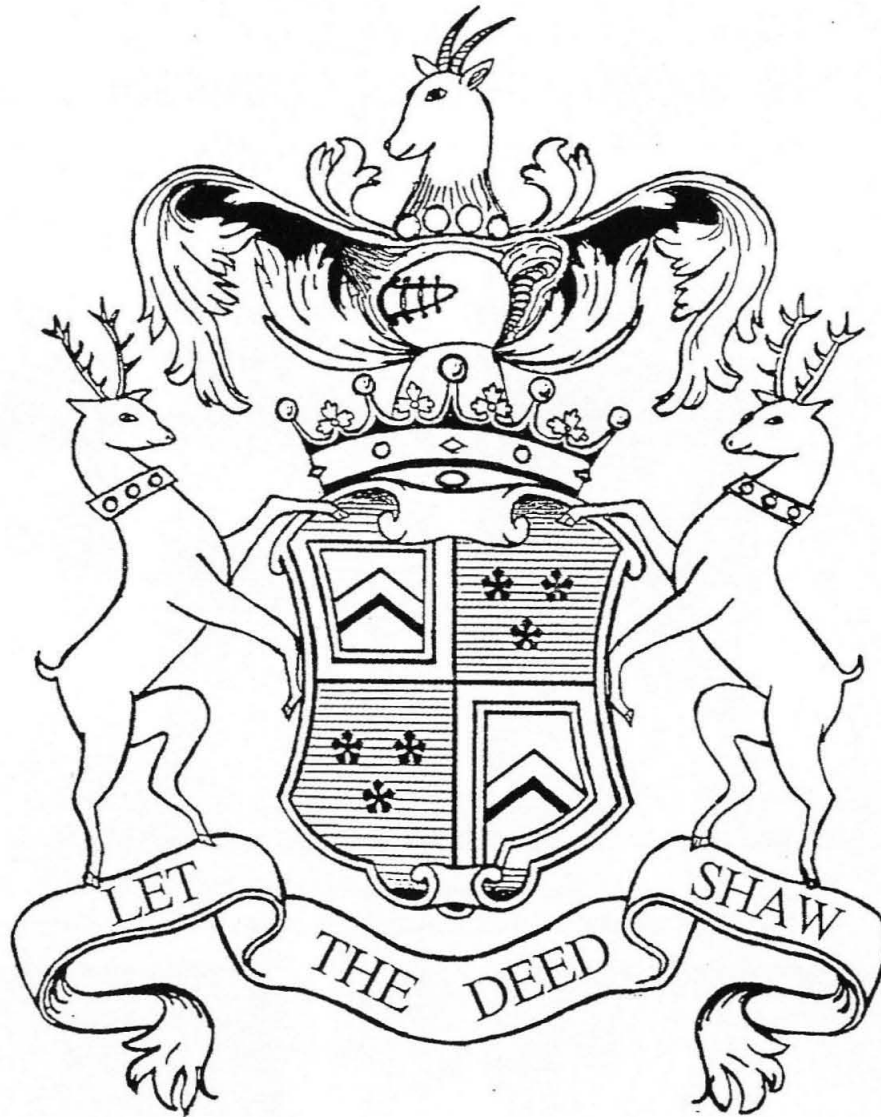








# Fleming House



Fleming House can be defined by tradition, loyalty and athletics. All three of these elements were seen as the year progressed. From Caroling and Formal Meal to the near win of the Interhouse trophy, Fleming House members proved that they can pull together. Spirit was seen in the large number of alley challenges and Alley 5 ended the year with the possession of the Big Red Flag. (Frosh can't win.) After 4 years of battle, the seniors became esteemed Fleming Alumni. Mike and Maureen also entered that hallowed ground. Now Fleming awaits a new crop of freshmen to embrace in its excellence.  
— so let it be written, so let it be done.



Jason displays swinging style.



Above: Pat (right) and Matt (left) stun the Pageboys with their football abilities.  
Below: Joe takes a shot, Rob takes a swing, and Ryan takes a flying leap.







Welcome to Fleming House, my children.

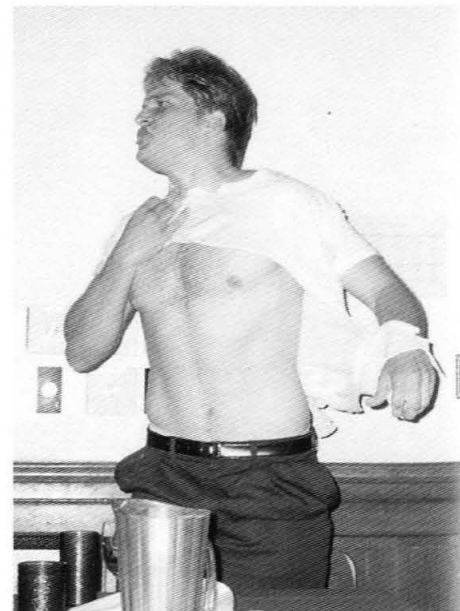


Is there a frosh in the room?  
Put him up against the wall!



Above: Fleming goes caroling in the other houses.

Below: The women of Fleming dress up for formal meal. John loses his cool (and his shirt) during dinner announcements.

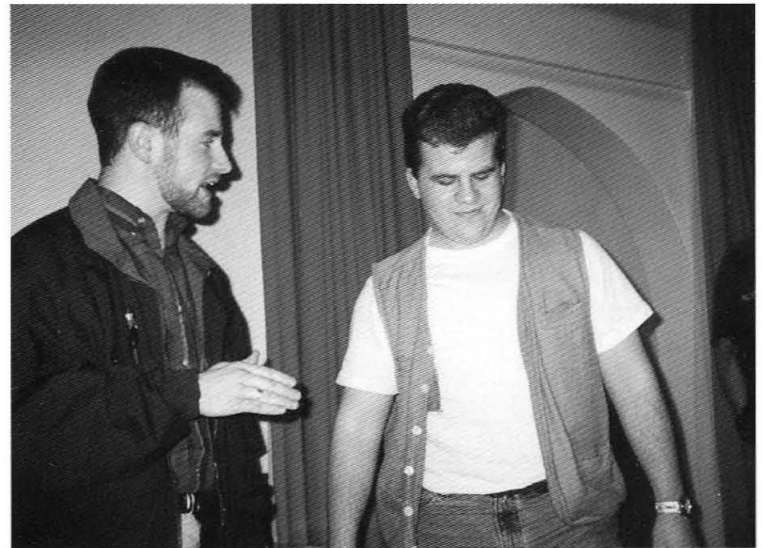
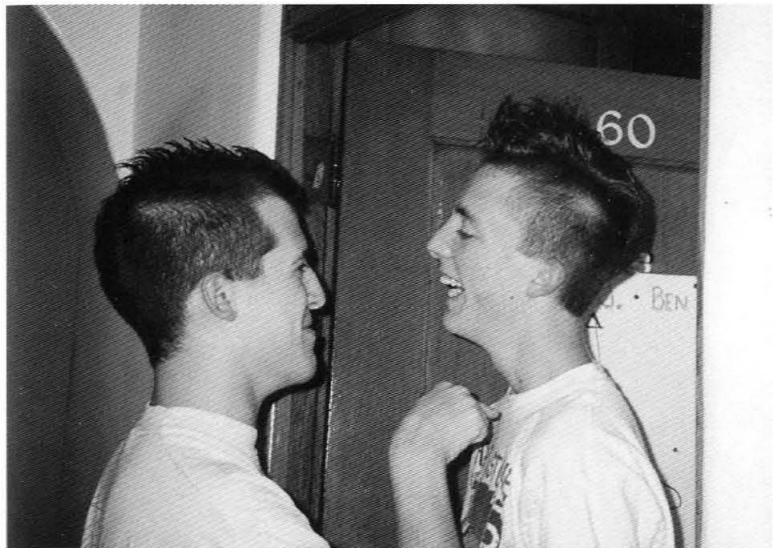




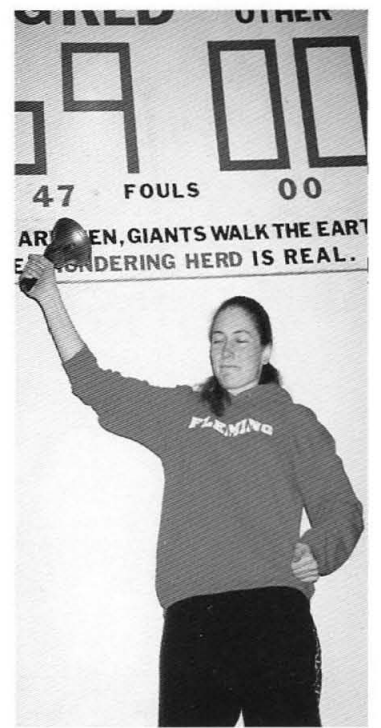
Tony and the frosh learn Toilet Paper 101.



Mic shows proper form in condom inflation.



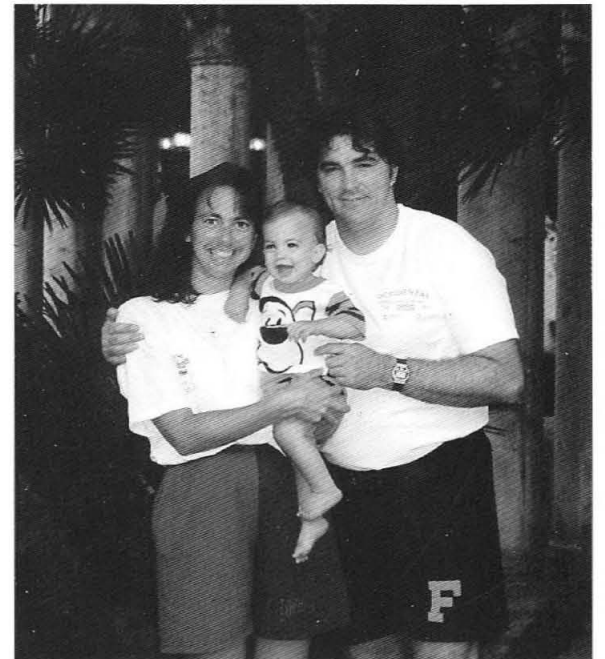
Above: Ben and Matt compare new haircuts.  
 Above right: Michael drills Anthony in Master of the Universe strategy.  
 Below: Chris always lights up when Ian's around.  
 Below center: Alley 5 rocks the house.







Above: Top Four — (from the left) Devang Shah, Diana King, Katie Stofer and Michael Shumway.





Right: Ath Team — Matt Musick, Ryan Patterson, John Nicholai, Phyllis Chen, Ian Swett and Chris Brooks.

Left: Resident Associates — Maureen, Orion and Mike Burl.

Far left: Social Team — Martin Nguyen, Eugene Plotkin, Joanne Jang (Soc 1), Nathaniel Hsu, Ben Brantly (Soc 2), and Dee Ghosh.





# Freshmen

# Sophomores

**Back row:** Rui Fan, Joe Lucas, Baldeep Sadhal, Nathaniel Hsu, Matt Kennedy, BJ Horn, Chris Kurtz, Dee Ghosh, Eugene Plotkin, Ryan Patterson **Front row:** Ben Brantley, Lori Robison, Greg Detweiler, Matt Musick, Liz Kelley, Ian Swett, Kim Vu, Adrian Seymour. **Not pictured:** Christopher Brown, Gina Buccolo, John Burke, Jennifer Cummings, Anne Hanna, Jay Henderson, Bill Hiestand, Abraham Kuo, Cory Loomis, Jason McIlhaney, Arjun Mendiratta, Josh Strahan, Matt Wilhelm



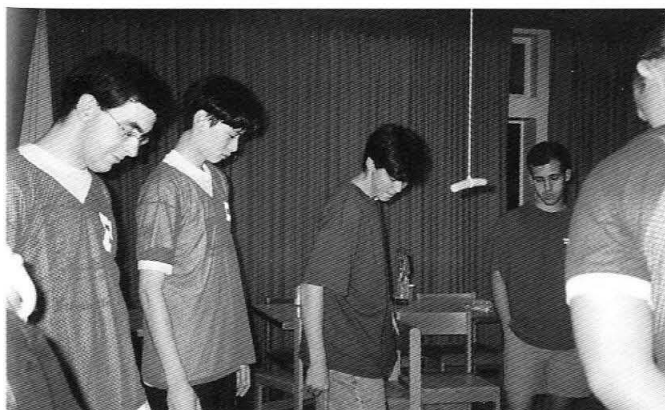
**Back row:** Erik Streed, Joanne Jang, Corinne Gilliam, Jeff Custer, John Niccolai. **Front row:** Mic Westcoat, Faye McNeill, Devang Shah, Phyllis Chen, Anthony Greenman, Joe Soriaga. **Not pictured:** Jonathan Burrows, Alex Chen, Francisco Dias Lorencio, Amy Dullard, Michael Grebeck, Rajat Kongovi, William Kung, Jeff Mendez, Juan Oleaga, Mark Oyama, Gabe Powers, Kara Swedlow, Gregory Tan, Derick Wiant, Conrad Ziesler.

# Juniors

**Standing:** Pat Jewel, Jason Barnes, Julius Su, Kiran Shekar, Michael Shumway. **Sitting:** Diana King, Adam Petrie, Tim Yarnall, David Winkler, Chris Bisbu, Brian Monroe. **Not pictured:** Trey Atwood, Brian Barris, Albert Chiu, Nick Choly, Sheng Ding, Derek Farmer, Steve Glista, Harmesh Lad, Tai Lam, Ben Liao, Scott Mandelsohn, Libby Mosier, Brad Nakatani, Jorge Palamara, Kristie Phillips, Donnie Pinkston, Jingxiang Rao, Evan Reed, Antonio Salazar, Katie Stofer, Hai-xin Tie, Evan Tsang, Paul Vigil, Alan Yue.

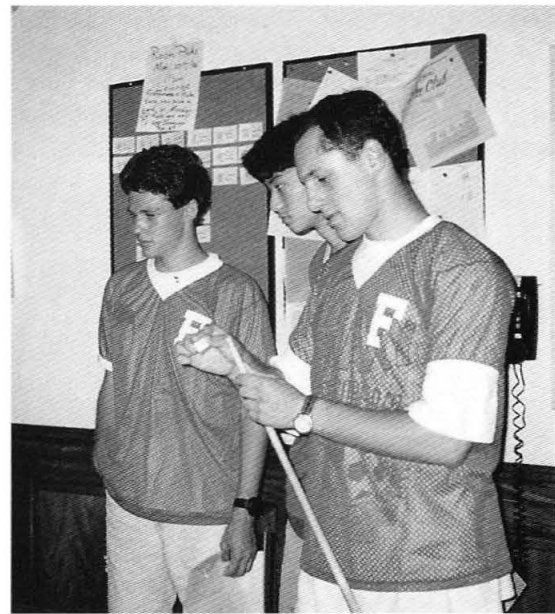


Above: Keely, Di, & Amy prove that Fleming women can hold their beer.



Left: Mic, Natron, Chris, and Ben look for the hot dog that's in front of their faces.





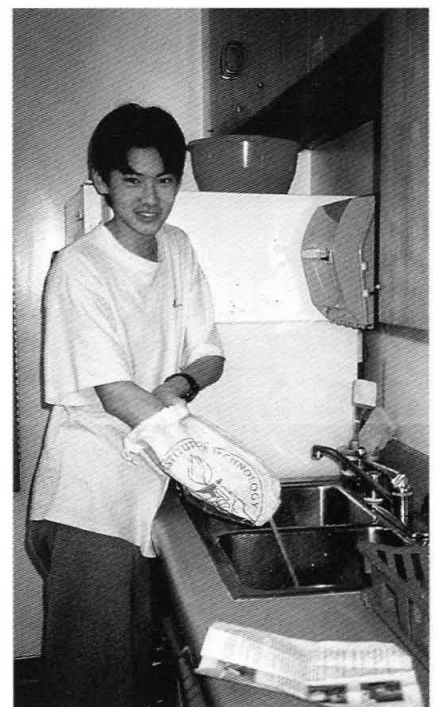
Above Right: Eugene practices his pool skills.

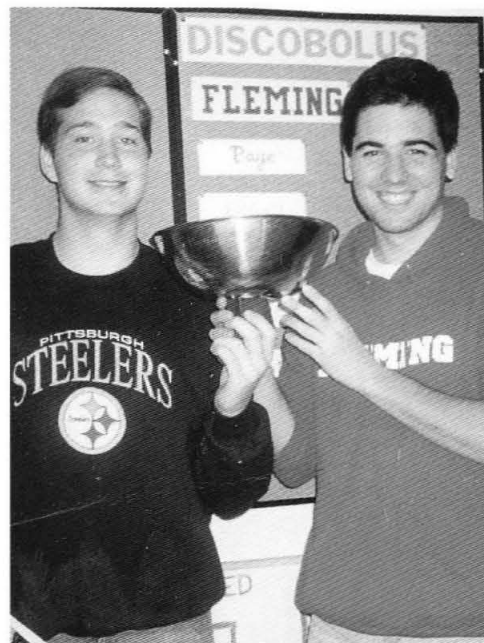
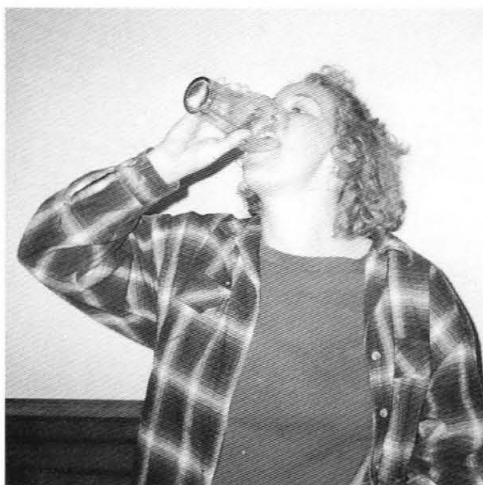
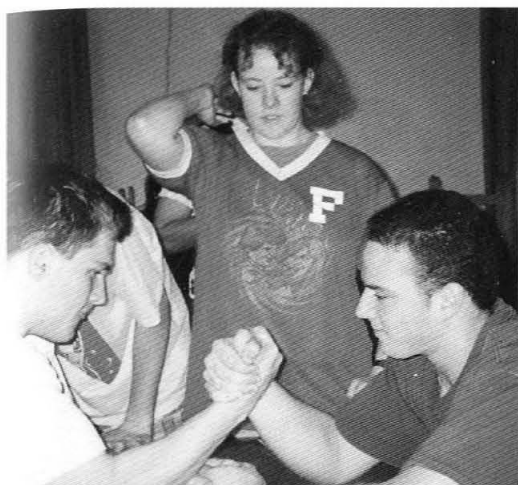
Below: Alleys 1 and 2 engage in a spirited game of Twister.

Right: Playing the Ride is not a good idea, even in Alleys 2 and 5.

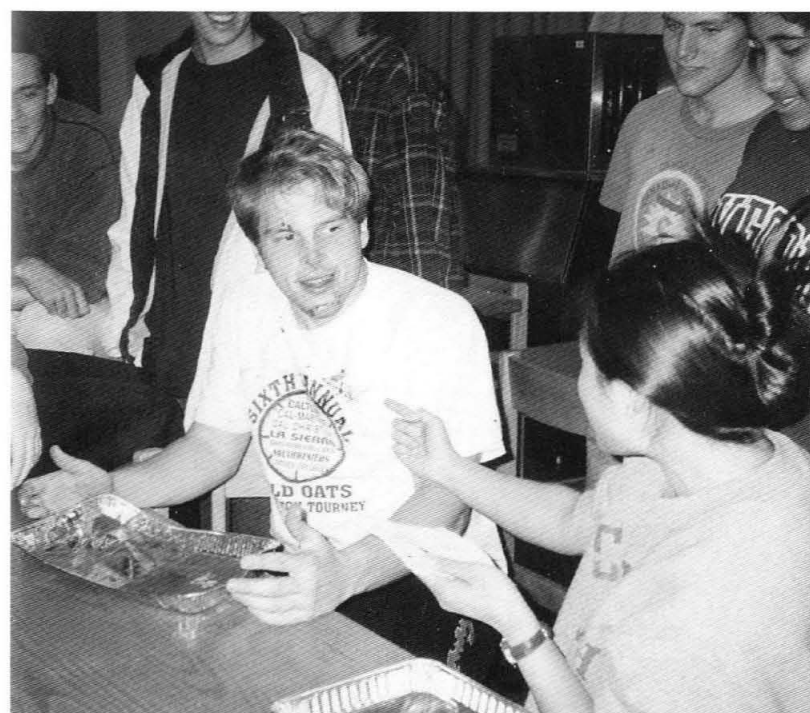
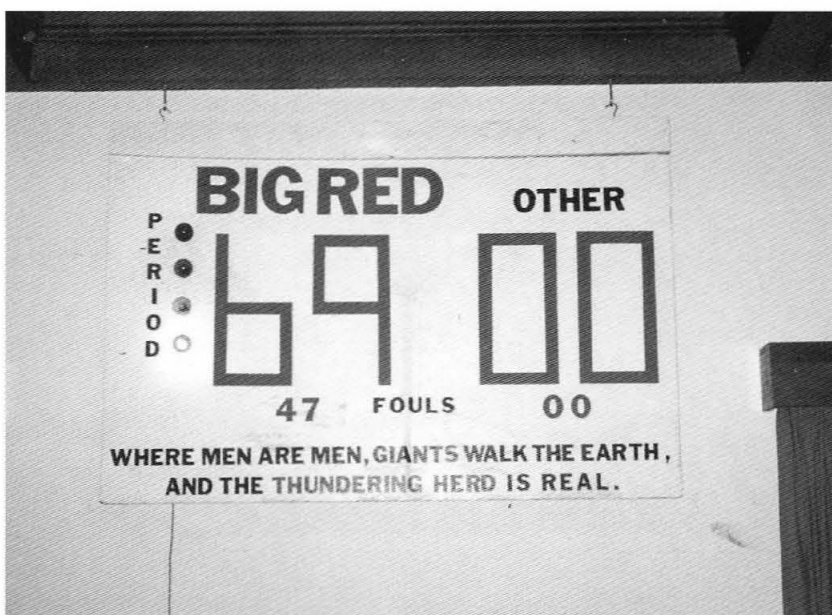


Julius makes liquid nitrogen ice cream with help from ever-domestic Natron.





John and Jason arm-wrestle for the honor of their alleys, while Amy eats her eggs with style. Biz and Brian pose with the Discobolus trophy.



Above left: Dee takes her Root Beer Float float.  
Left: John and Phyllis wonder who has more Jello on their face.  
Below: Fleming Country Club in 22 Gates.



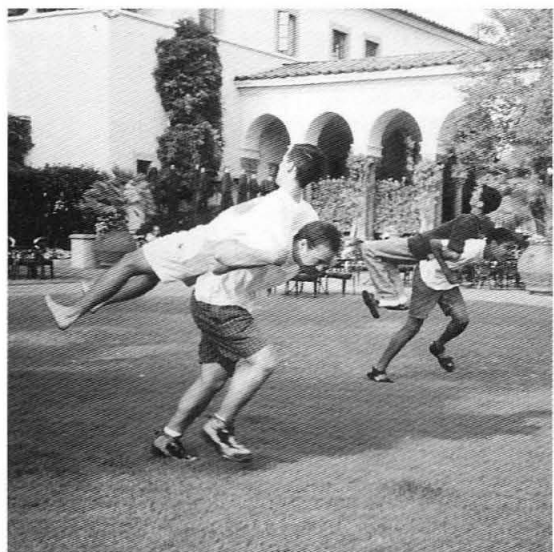




Where did that key go?



Everyone's having fun in Candyland.



Above: Ben, Jason, Jay, and Baldeep learn the meaning of teamwork.

Right: Arjun plays a mean violin.

Below: "Hmmm...What do I do with a baby?" wonders Chris. Greg wanders over from the Commando stack and enters Wonderland.

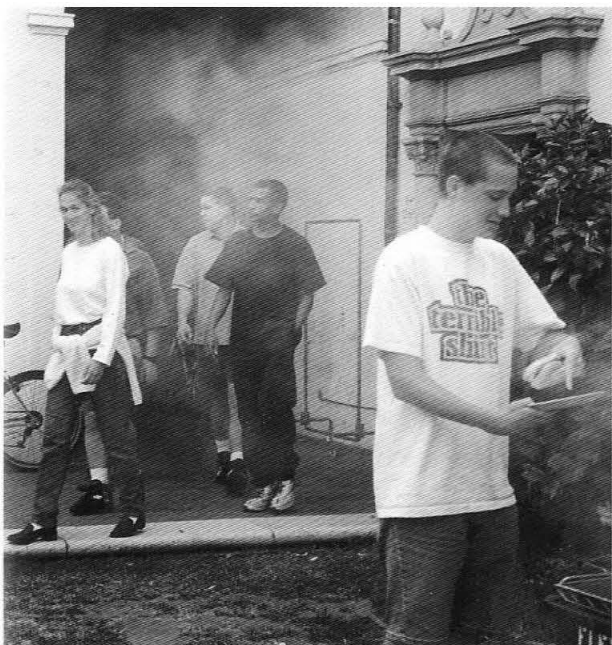
## Ditch Day 1997



# Seniors



**(l-r)** Seth Blumberg, Brian Bircumshaw, Jenny Ohgi, Scott Lyons, Gretchen Larson, Chris Cary, Keely Walker, Ben Siron, Wei Kwan, Greg Harper, Keith Wong, Tony Chang, David Barth, Evren Tumer, Kumar Raman, Chris Moustakas, Geoff Beach, Toufic Suidan, Winston Yang. **Not pictured:** Aristotelis Asimitopolis, Marc Coram, Morgan Davis, Paul Hendrick, Brian Jenkins, Kenny Jiang, Yi Li, Rob Lin, Rob Sides.



It's tough work being a Flem.



## Fleming House 1996-1997

### Historian

Keely Walker

### Historian-in Training

Corinne Gilliam

### Special Thanks

Amy, Di, Gretchen, Jenny, Maureen, Al Fansome Chris Cary, Greg, David, Jason, Biz, Brian Monroe, Adam

— *let the deed shaw*



# Lloyd House

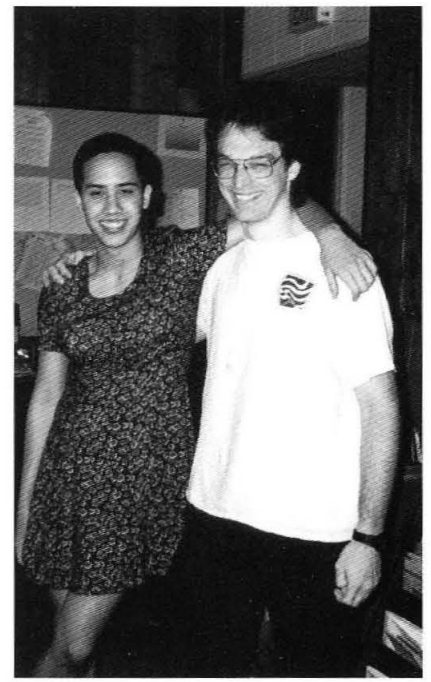


Top: Library!

Right: Big party in Jason & Eric's room after BC! Max count, 32 people!

Below: John Hatfield tries to escape Lloyd House...  
Lower right: Nestor is in his element. Poor Maria.





Paragons of Fashion and taste.

Upper left, Adrienne Bourque resplendant in silver grey, courtesy of Reynolds and Duct Tape.

Above: Christy, in a dazzling holographic mini-skirt and matching fake velour top.

Upper right, Ben shows off his lovely figure in a flattering little dress.

Left: Judy and Megan are dressed up for ASCIT formal. Matt and Steve serve as dates.



Left: Local EE genius, though he'll deny it, Jim Glore helps put together the now famous Lloyd Hosers.





Top left: Nickels! Nickels for my blender...

Top right: Christy's Twister set is a hit in Lower Crotch.

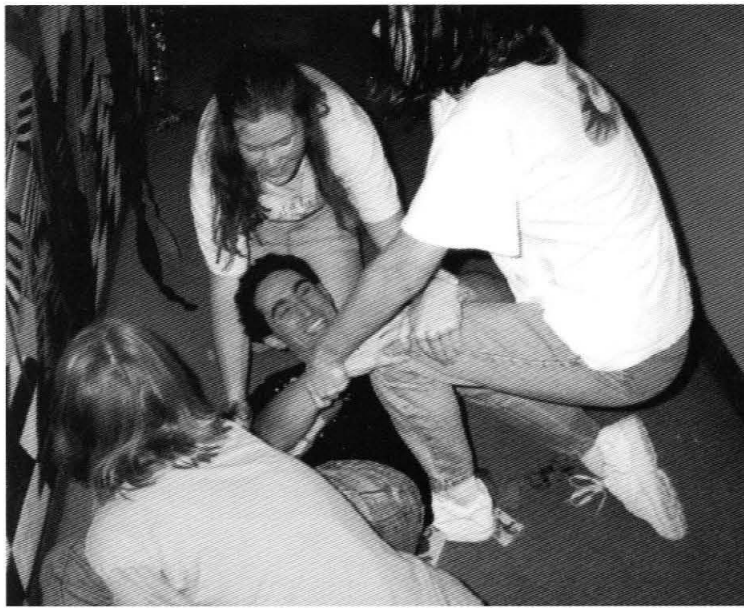
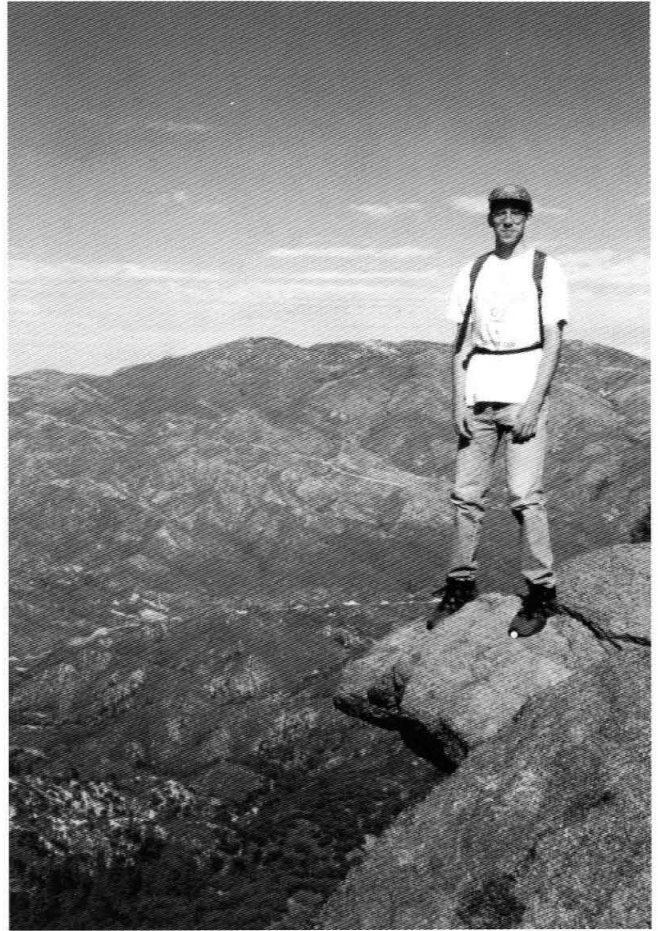
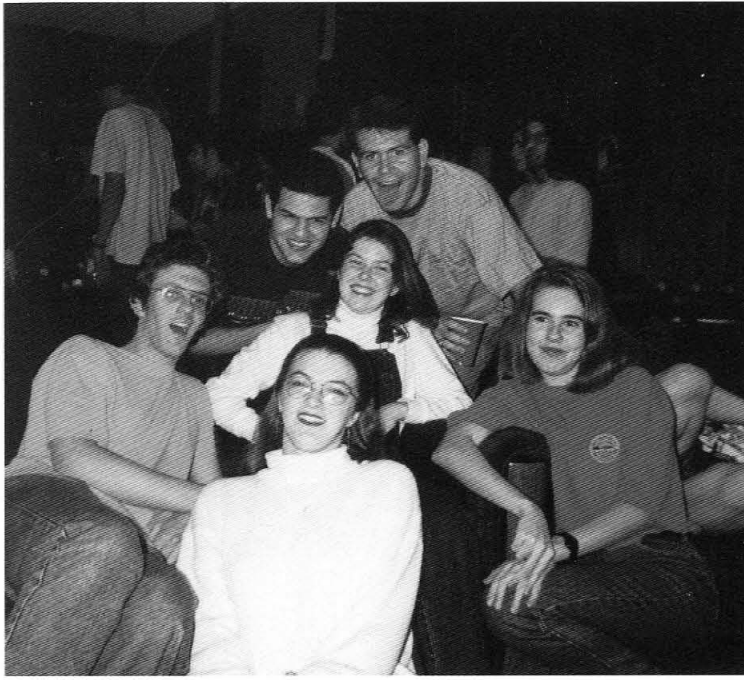
Above: Tessa proudly displays her new tattoo.

Above right: Steve's House of Kaos.

Right: Ah, dancing under the starlit night, to the soft sounds of our personal band, on Casino night.



# Social Events and Going Ons...



Above left: Everyone's all ready for Christmas, with a very special shade of red being modeled by the girls.

Above: Jeremy, master of all he can see.

Left: Steve, not quite master of Kaos.

Below: A friendly game of poker. Uh, Steve...



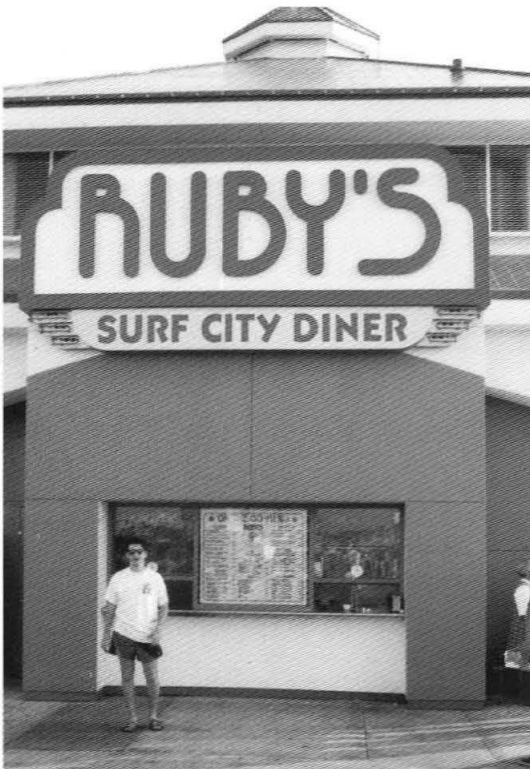
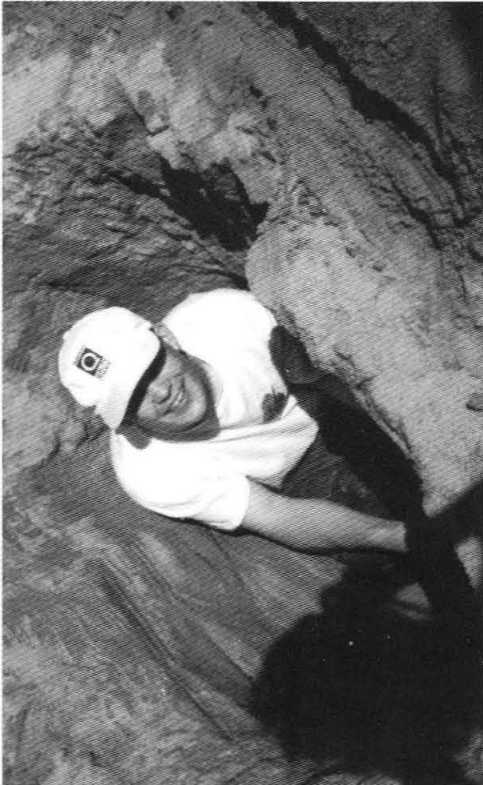


# Beach Trip

Below: Matt asks, "What, this isn't China?"

Right: Alright, who turned off gravity?

Lower Right: We huddle against the evening sea breeze as we try to cook the perfect hotdog.

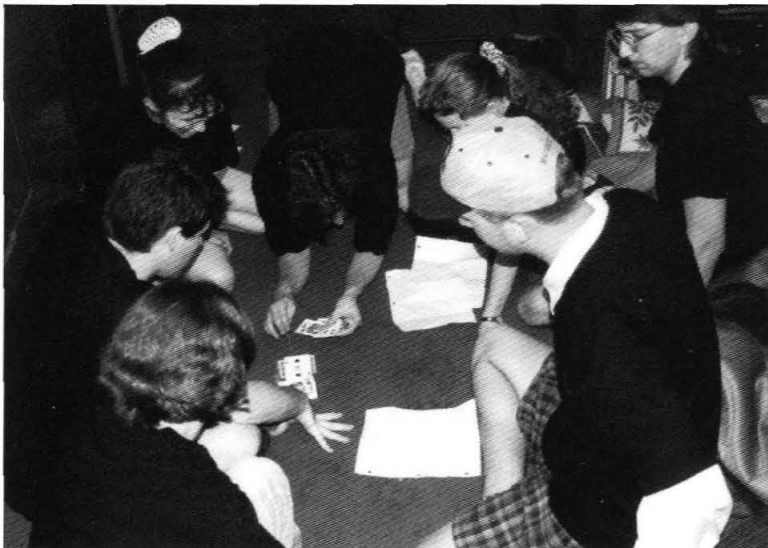
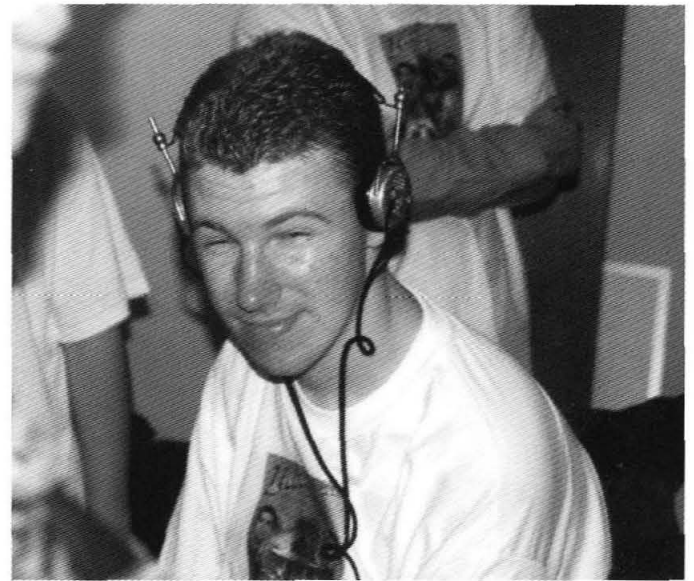


Far left: Jim conquers yet another Ruby's.  
Left: Rachel relaxes under the shade of her stylish beach umbrella.



# Ditch Day

Left: Are you sure it's today?  
Yeah, that's what they said  
yesterday...  
Lower left: The Heaven stack  
resists the drenchings of Hell,  
with the help of some dry-  
wall...  
Below: Eric tries to under-  
stand...



Above: The Illuminati stack, courtesy of Dave Relyea.  
Right: A fresh roast pig delivered to the Lloyd's Get Drunk stack.



# Sports

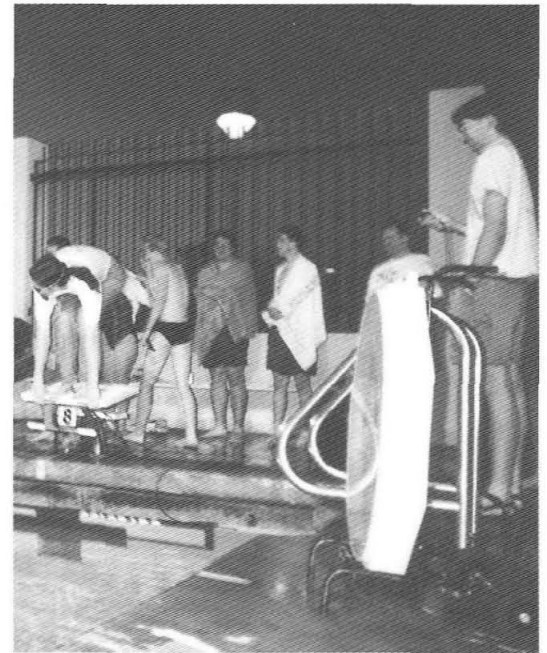
Right: Lloyd vs. Blacker in volleyball.

Below: Jaideep admires Michelle's form as she performs a long jump.

Below right: Wes times Günter as he prepares to breaststroke his way to fame.

Bottom left: Lloyd's, and most of Caltech's, female fencers, Megan Linnehan, Adrienne Bourque, Kristie Armentrout, Klejda Bega.

Bottom right: Lloyd-Caltech baseball team and fans. Kevin Bradley, Alan Rosenwinkle, Matt Sullivan, and Dave Hiller in the rear. Groupies in front, Frances Siu and Christy Edwards.



# Party!



Above: The Hell Clown mesmerizes the partygoers, "Drink... drink," he says. Upper left: Kevin and Michelle relaxing by the food, after the party's complete and a success. Left: Woohoo! Look at me! I'm not drunk! Yet! Kevin Bradley and Marc Gustafson doing their service as bartenders.

Below, Sophomores, plus Mason: Mason Porter, minus foot, Diane Lavelly, Adrienne Bourque, James Beasley.





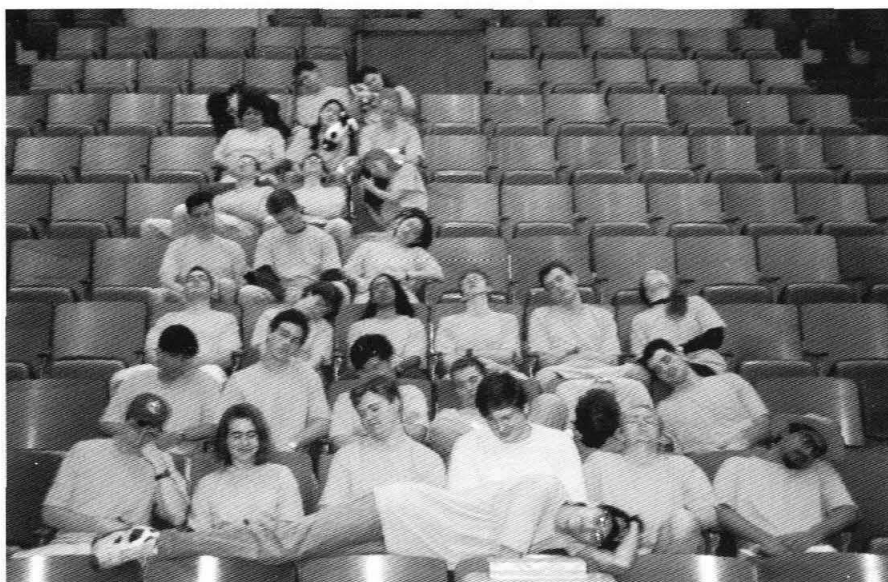
# ExComm

ExComm, left to right. Back row: Dave's Hand, Eric Bogs, House Secretary. Kevin Richberg, Lloyd Social Director. Emma Goldberg, Rep@Large #1. First row: Kevin Bradley, Ath Man. Steve Michael, Our Most Honorable President. Wes Salzillo, Rep@Large #2. Jason Roth, House Treasurer. Dave Williams, Rep@Large #3. Jim Glore, House Superintendent. Front Row: Jaideep Singh, House Mascot.



# Freshmen

Frosh, left to right. Last row: Stephen Shepherd, Dan Levy, Amanda Schaffer. Sixth row: Rosie, Eleanor Park, Dan Rogstad. Fifth row: Alan Rosenwinkle, Peter Maresh, Megan Linnehan. Fourth row: Eike Jens, Jody Biggs, Huimou Li. Third row: Damien Burch, Kathryn Hill, Jedi Sandip Darji, Steven Wolf, John Hatfield, Rachel Gray. Second row: Selwyn Scharnhorst, Matthew Sullivan, Melvin Leok, Peter Frazier, Mark Tilford, Nelson Tavares. First row: David Hiller, Michelle Armond, Marc Gustafson, Nathan Jones, Tim Reed, Jaideep Singh. Supine in front: Kevin Richberg



Sophomores, left to right: Matt Bachmann, Aaron Oei, Jalali, Cynthia Gong, Matt Bachmann(2), Brett Victor, Vladimir Mitsner, Brian Frazier, Emma Goldberg, Yongkai, behind the rock, Adrienne Bourque, Matt Bachmann(3), Jason Roth, Laura Gossett, Brian Frazier(2), Aaron

# Sophomores



# Juniors



Ms. Hannon's 15th grade class. Left to right. First row: Ms Katherine Hannon, Judith Green, Christina Edwards, Maria Satterwhite, Vito Dai, Brian Limketkai. Second row: Steven Van Hooser, Wesley Salzillo, Jeremy Boulton, Ryan Clancy, Kevin Bradley, Dean Jean Paul Revel. Third row: Louis Wang, Steven Michael, Blake Jones, Kristie Armentrout, Steven Ginzburg, Jonathan Little. Last row: Frances Siu, Robert Keeney, Benjamin Williamson.

# Seniors



Seniors, left to right. Back row: Mike Tice, Mohammed Rizvi, Mark Neidengard, Tim Günter, Dave Relyea, Paul Rubio, Steve Bennett, Ken Kharma, Brian Winters. Middle row: Barbara Weir, Carlos Maldonado, Prista Charuworn, Tessa Miller, Rachel Weathers, Micah Barclay, Ellis Meng. Front row: John Langford, Daniel Azuma, Bob Keeney, Laura Muñoz, Alain Inugai.

Joesph Blitzstein, Dave Williams, Eric Bogs, Vladmir Mitsner, Klejda Bega, Neema James Beasley, Yaniv Inbar, Paul Kim, Dave Williams(2), Aaron Higgins, Aaron Oei(2), Ow, Klejda Bega(2), Chuck Smith behind the rock, Diane Lavelly, Paul Kim, Aaron Higgins Dave Williams(2), Louis Wang(Yay!), Paul Kim(4), Neema Jalali(2), Cynthia Gong(2), Higgins(3), Xavier Fan, Klegda Bega(3)



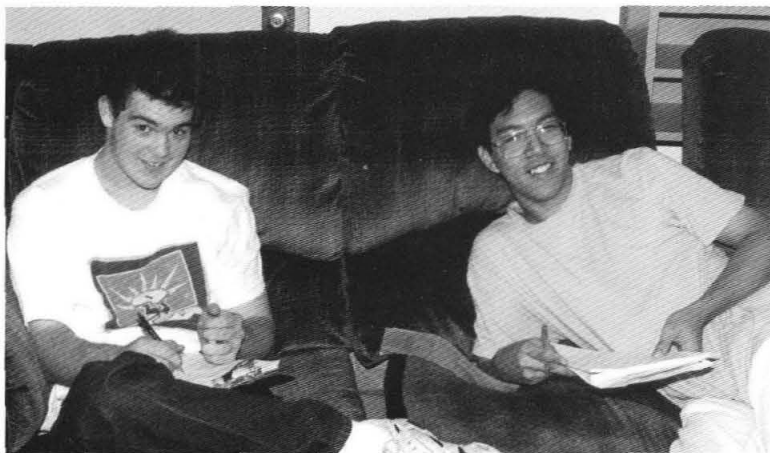


Below: I had to get myself in the yearbook somehow! Matt and Louis, studying.

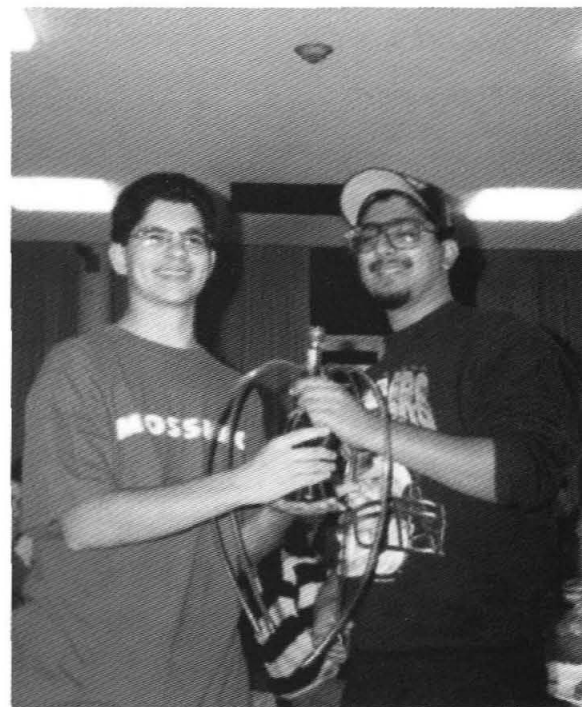
Right: Sorry, Andy's a little tied up right now. Can I take a message?

Lower left: Steven Hawking becomes a Lloydie... Shower Steven Hawking! (j/k!).

Lower right: The bong passes on to another generation. Congratulations Jaideep!



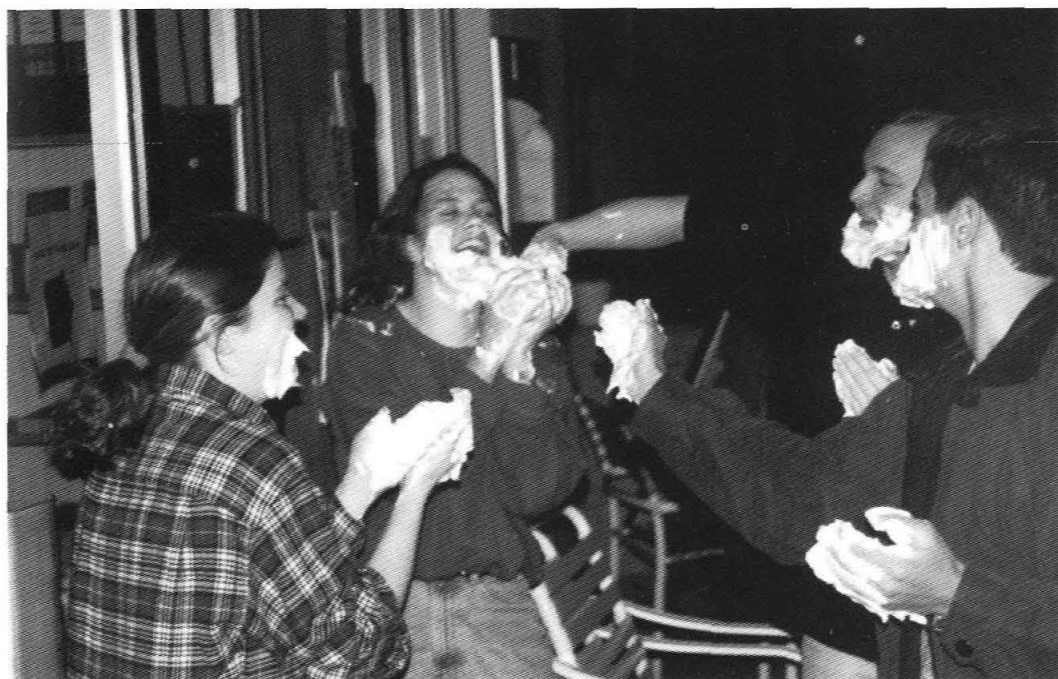
More Sophomores: Chuck Smith, Yaniv Inbar, Aaron Oei, Eric Bogs, Jason Roth, Laura Gosset, Xavier Fan, Matt Bachmann, Brian Frazier, Aaron Higgins, Mason Porter's Foot





Left: A wet frosh is a happy frosh... Six of our beautiful Lloyd Ladies model our stunning wet GOLD shirts for us in front of the fireplace.

Below: Don't ask... Christy, and a few friends fling some shaving cream around.

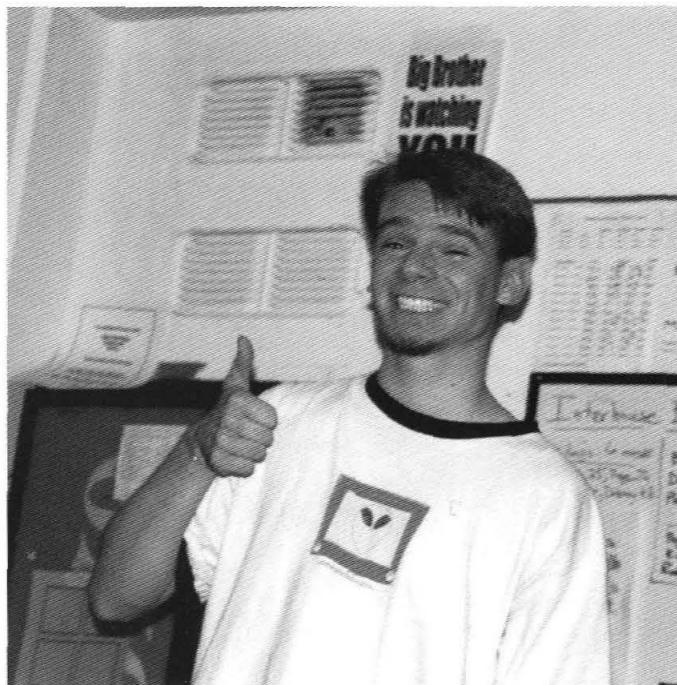
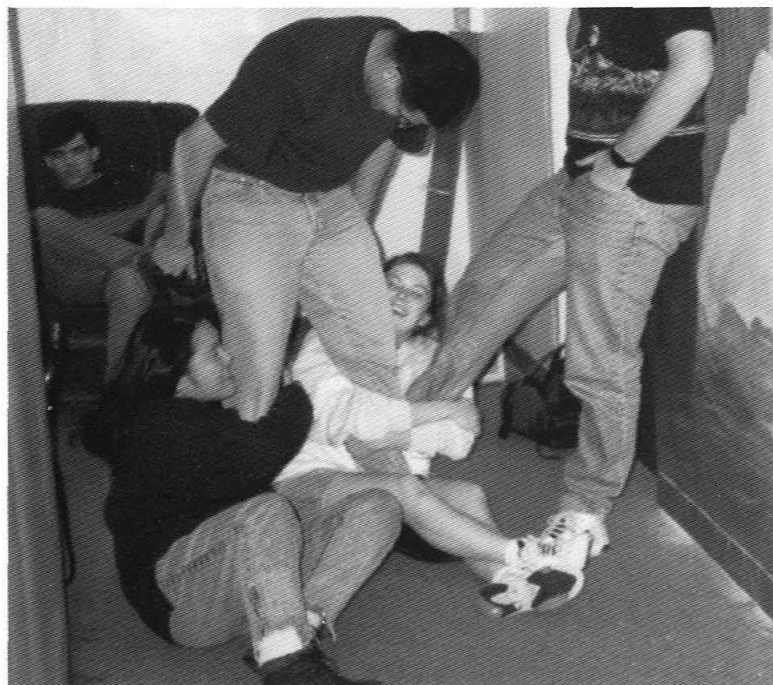


Lower left: Christy-  
"Don't leave yet Steve!"  
Frances-"We'll miss  
you!"

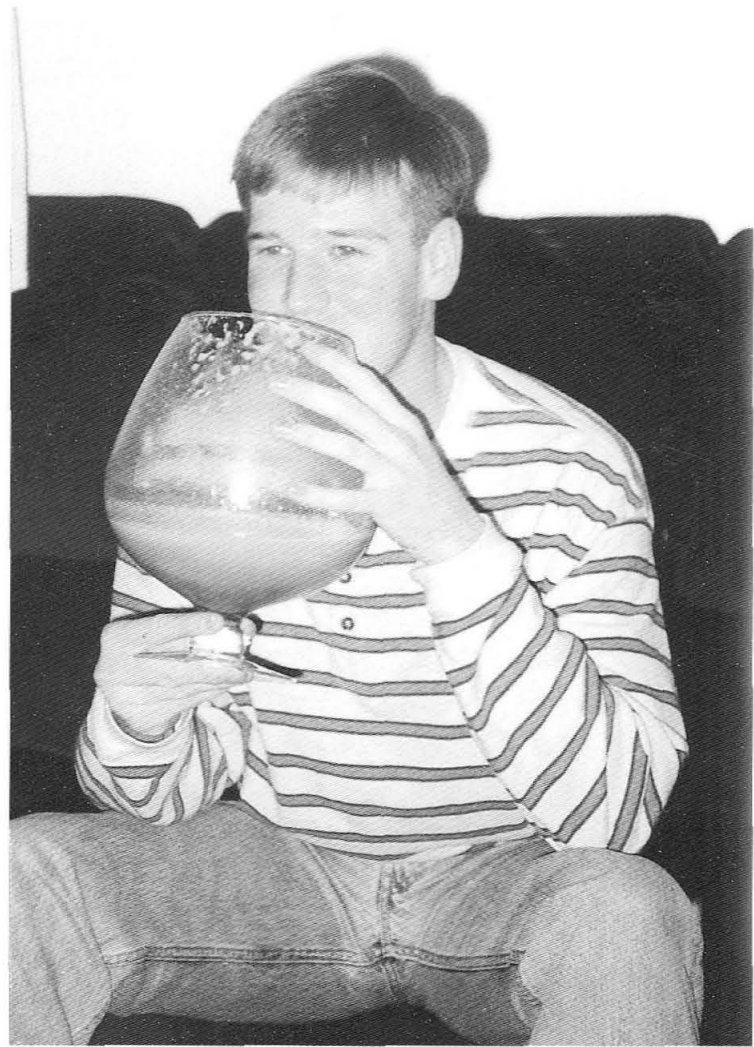
Jon-"Alright then..."

Below: Jim gives his  
approval to this year's  
Yearbook.

I would like to thank  
everyone who made this  
possible, especially  
Megan, Ellie, Jonathan,  
Alan, Xavier, Ryan,  
Adrienne, Steve  
Bennett, who will all get  
their photos back before  
they get their year-  
books... Promise!







# The Social Mecca of



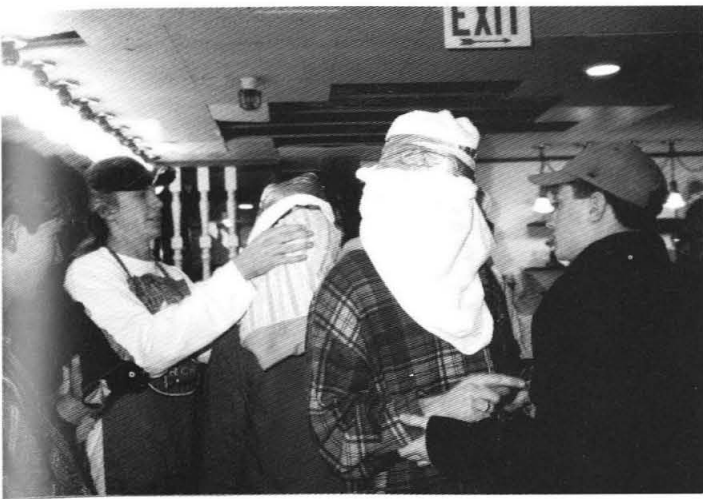
# the Western World.



# MS AK MORT H P



# Mt. WILSON EXCURSION



"OK, stay still, I'm gonna spin you around 100 times."



"Damn, it's cold up here."



"These signs make me proud."



The morning after.



Getting ready for the big trip.



Daniel Song shows us how to misbehave.



Look mom, I'm being abducted!



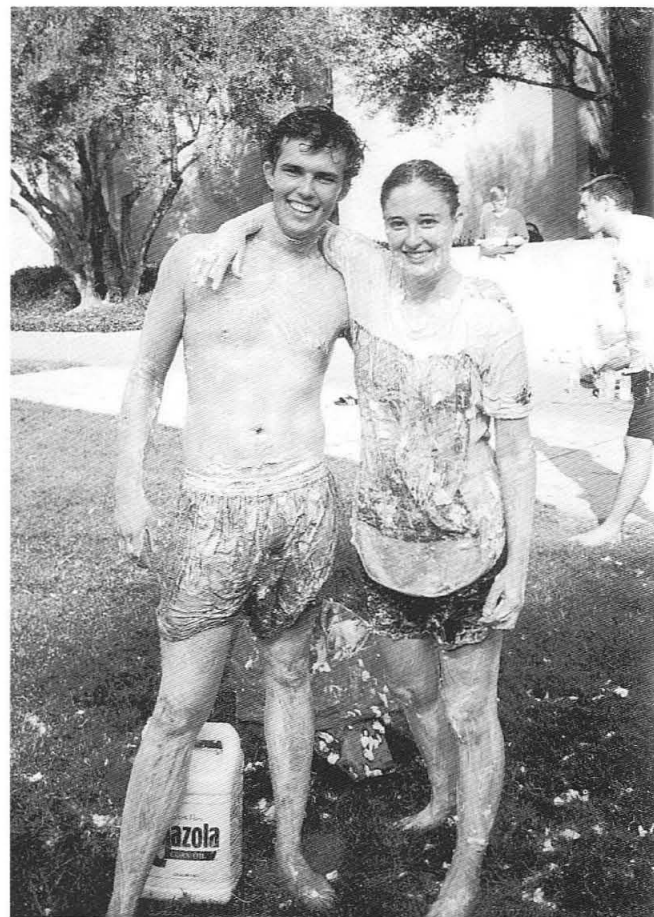
# GREASED FROSH 1996



For example, Anna



The Holly Boys and Marie



Grease can bring anyone together, like Andy and Marie.



Alley 7 -- Winner of the Golden Throne



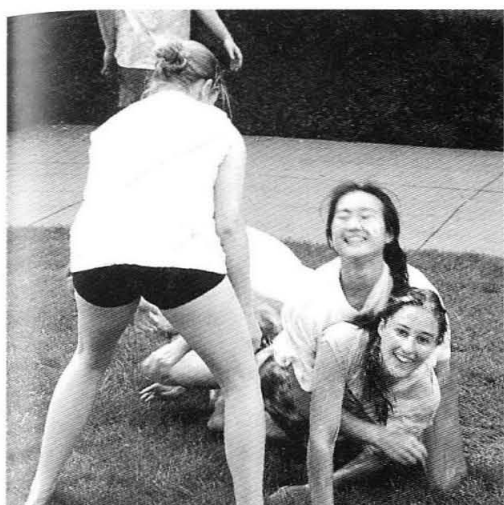
Afterward, we go rinse off somewhere, I forget where.



Anna fights off the men who love her.



Alley 5 -- Greasy but happy. Go figure.



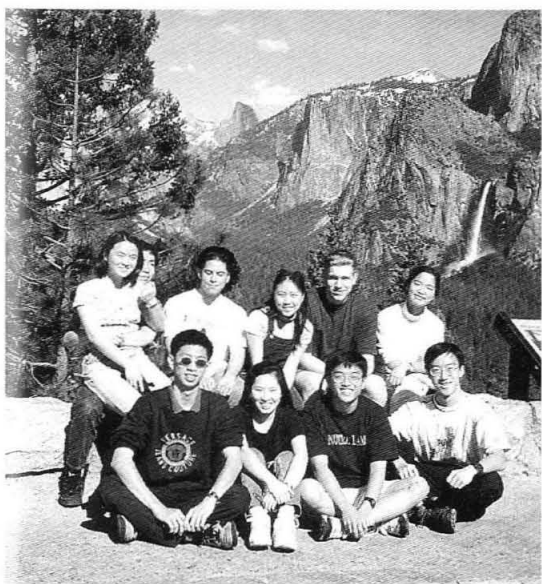
There are some feisty women in Page House.



Hanging out with da' boyz in the Beer Room.



Mess with the best, die like the rest.



The frosh at Yosemite.

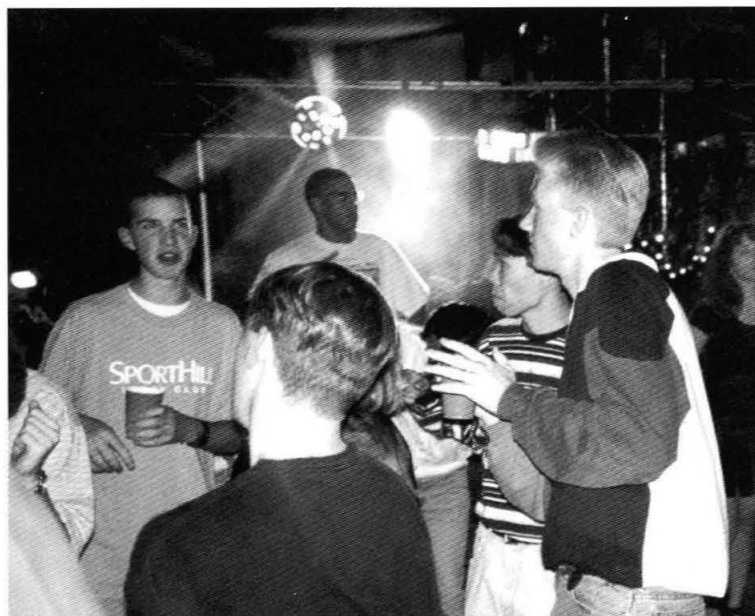
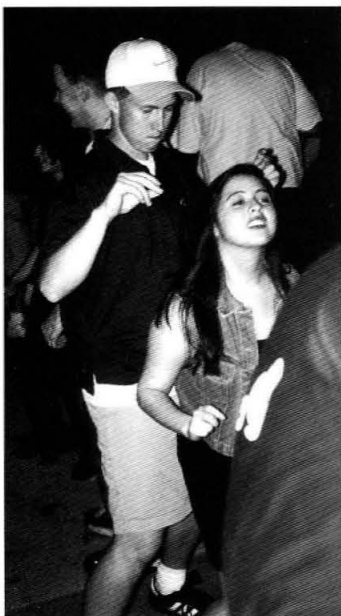
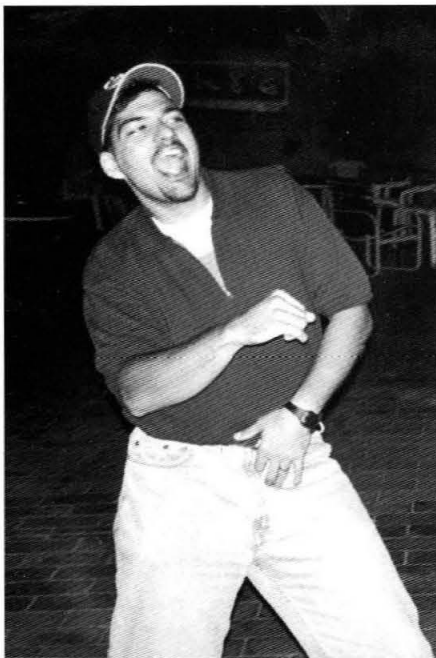
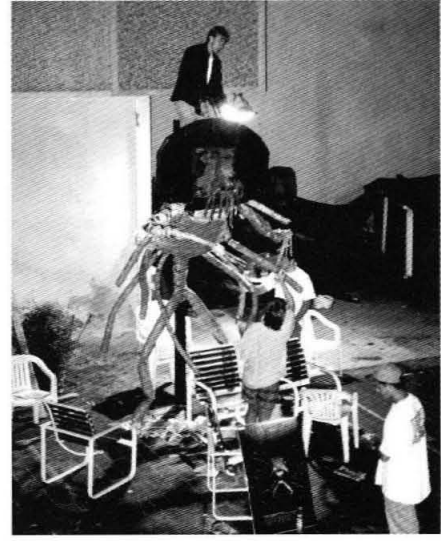


The sofa of love.

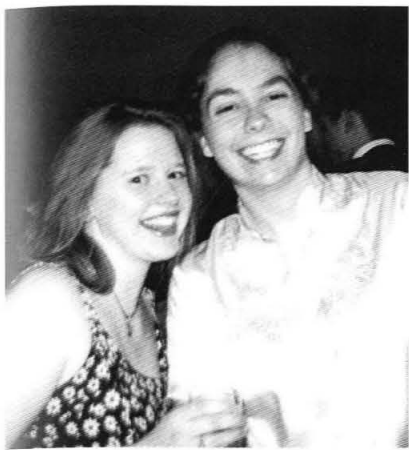
**page:**  
 \ˈpaj\ *n.*  
 1. where  
 the men  
 are buff  
 and the  
 women are  
 beautiful.



# ID4 The End of the World is Here



Page parties like there's no tomorrow.



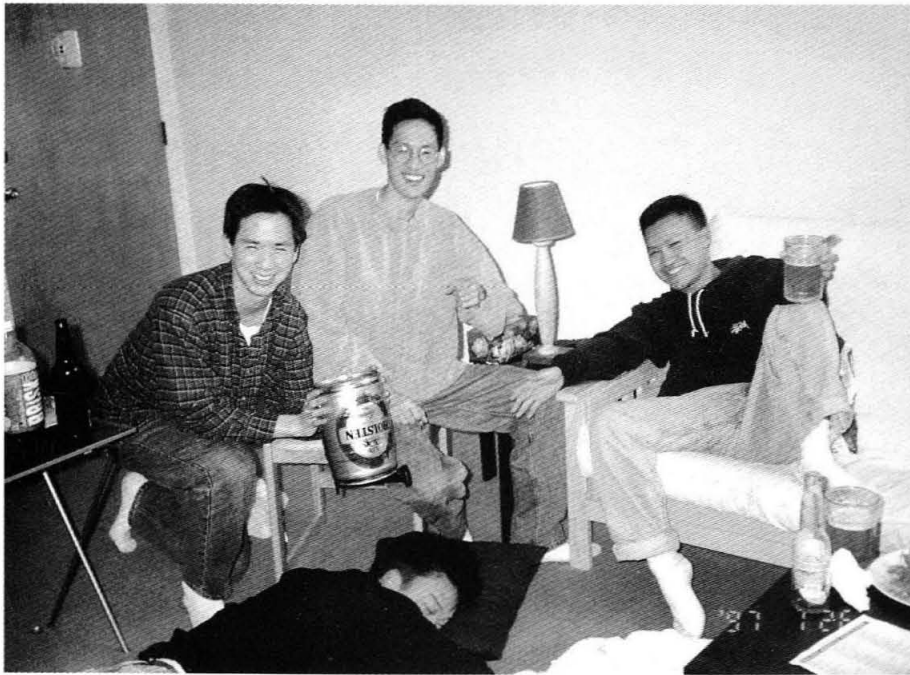
## The classy side of Page House

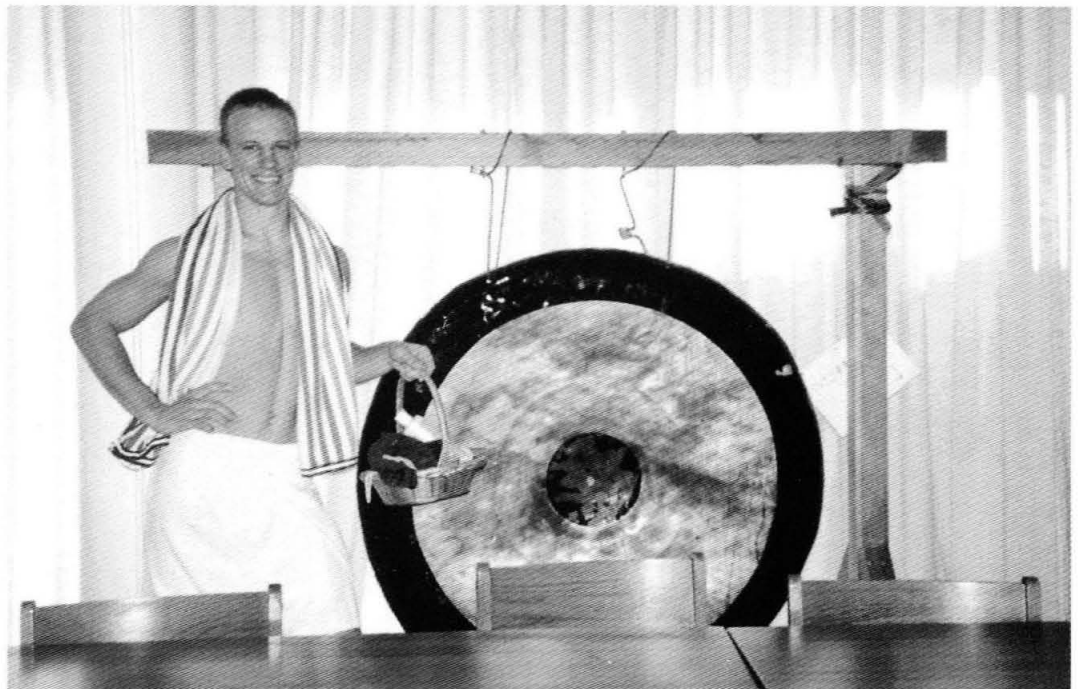
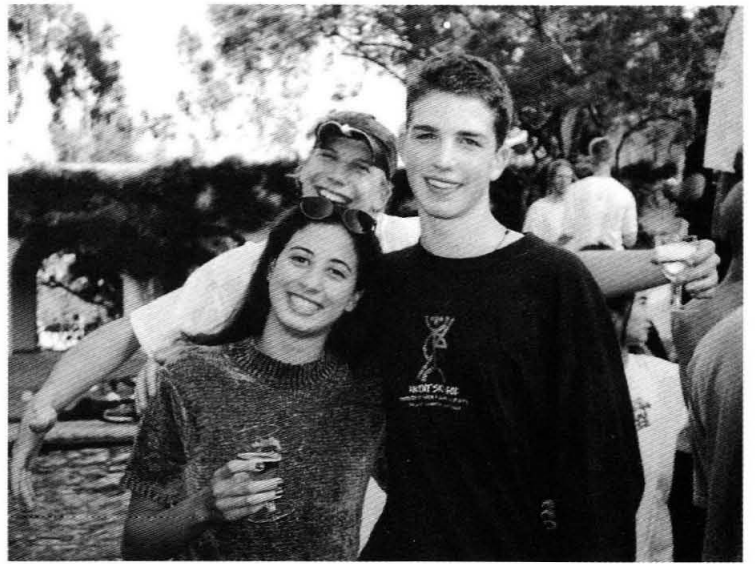




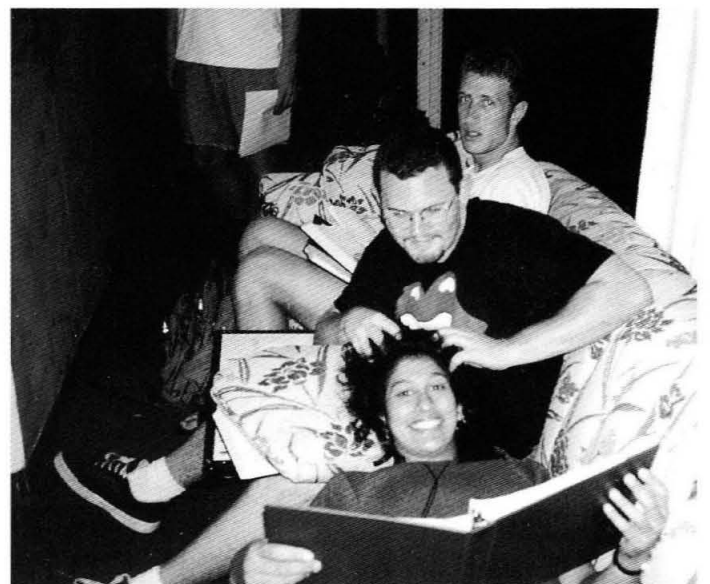


## THE MANY FACES OF PAGE HOUSE.





**"IT'LL BE THE MOST FUN YOU'VE  
HAD IN YOUR ENTIRE LIFE."**





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PRESIDENT: BRETT TOLMAN  
 VICE-PRESIDENT: LISA BISWAL  
 SECRETARY: MATT GREGORI  
 TREASURER: KAZU NAKADA  
 ATH MAN: MATT HALL  
 R.A.'s: ASHOK AND IONA  
 TRIPATHI





# RICKETTS

<sup>1</sup>In the beginning, all was dark. And L.D. looked down and saw this was good.

<sup>2</sup>But on the first day, god created heaven and earth. And L.D. saw that this was not so good, so He created Ricketts Hovse. <sup>3</sup>Then god said, "Let there be light and there was light. And L.D. blinked a lot.

<sup>4</sup>So L.D. separated the light from darkness and He banished most of the light to the Day. <sup>5</sup>But He kept the best light and used it to create what was Fire. And He saw that it was most good. <sup>6</sup>And He saw that sawdust, properly applied, would make Fire even better.

<sup>7</sup>On the second day, god created the sky, and L.D. almost choked on the fresh air, and He saw that it was bad. <sup>8</sup>So He created bigger, better fires which would darken the sky with their smoke. <sup>9</sup>And He saw that smoke was good, and so He created all things which could be smoked, and He was really, really happy.

<sup>10</sup>And on the third day, god created the seas, so L.D. spent most of the day at the beach. <sup>11</sup>And god created plants of all sorts, and for the most part L.D. couldn't give a damn. <sup>12</sup>But He took the greatest of them -- the barley and hops, and with the purest of water, He brewed a truly remarkable elixir,

And He spent that day at the beach  
Beer, and He saw that it was good.

which He called 'Beer.  
drinking heartily of His

<sup>13</sup>But on the fourth day, god  
and the stars. And L.D. saw  
were O.K., but the sun just sucked.

drinking Beer at the beach,  
looked down and saw that  
called this attitude Apathy.

<sup>16</sup>And on the fifth day,  
swim in the ocean or fly in the air.  
these beasts and feast on their flesh, and He saw that it was tasty.

<sup>18</sup>And on the sixth day, god created all the beasts which walk upon  
the land, and L.D. saw that they were the tastiest of all. <sup>19</sup>And so  
He created the barbecue in which He used His Fire to cook all the meat.

<sup>20</sup>But then god created man in his own image. And L.D. looked down  
and saw that it was not good at all. <sup>21</sup>So L.D. labored mightily to  
create beings in His own image. And He created Scurves, and He saw  
that it was even worse, so He gave up and went back to drinking  
beer and practicing apathy.

<sup>22</sup>And on the seventh day, god rested. <sup>23</sup>And L.D. was still  
barbecuing and drinking beer at the beach. And so the  
Scurves took over...

created the sun, the moon,  
that the moon and the stars

<sup>14</sup>But L.D. wanted to get back to  
so He created sunglasses, and He  
it was good enough. <sup>15</sup>And He  
and He saw that it was very good.  
god created all the beasts that

<sup>17</sup>And L.D. saw that He could kill



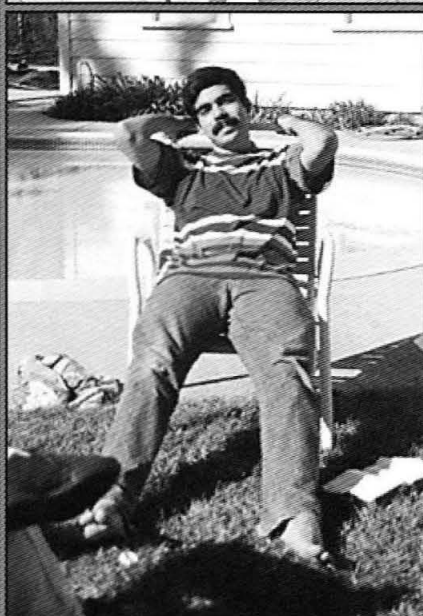


This Page--1st Row: Jeff and Chris catch social calendars; 'Up Your gets new paint and a disco ball; Brigitte whips Andrea's hair into a frenzied pillar of madness. 2nd Row: Andrew Huntington gets the Grand Tour; Patrick, Shay, Luke, Matias, and Jake hose down flems at frosh wash; Jason Sekanina paints 'Up Your purple. 3rd Row: Andy Cotter becomes a scurve; Mike and Terry shower Andrew Casteel. 4th Row: Josh Adams is showered by Steve McCoy and 'Beatch. Right Page--1st Row: Ishnaferitsu and Kevin Schulz prepare for Rocky Horror; Weiner, Andrea, and Dann make LN<sub>2</sub> ice cream; Mike serves breakfast to Brandon and Geoff. 2nd Row: Gloria and Mike courtyard float 'Pankaj, the disgraced clock-frosh; Juan relaxes at the Mosh's barbecue; Oran screams as 'Ben 'Bunnell is showered.



Freshman--Standing: Andrew Casteel, Kim Harle, Ishnaferitsu, Pat Higgins, Eric "Elrona" Strom, Robert Saliba, Kamran 'Oakili, Steve Chung. Sitting: Reena Banerjee, Haliza Nik-Hassan, Catelyn Gifford, Sara Mastro, Andy Cotter, Aleksandr Slivkins, Alice Medvedev, Olga 'Ruski-Roman, Keith Peters. Front Row: Kathryn Oseen-Senda, Amit Kshatriya, Pankaj Mehta, Oran Switzer. Not Pictured: Josh Adams, Ben 'Bunnell, Angie Han, Myra Interiano, Rudy Perea, Kevin Schulz



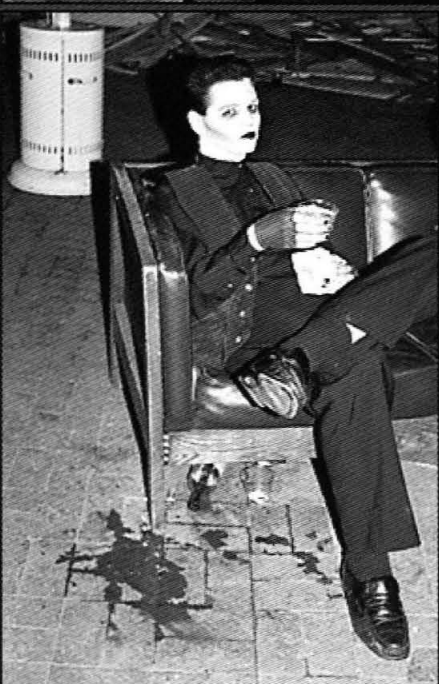


**Sophomores:** Andrea Hasenstaub, Chris Brichford, Jason Briceno, Shawn Watts, Juan Nuno, Jeff Clinton, Steve McCoy, David Hammond, Leon Torres (biding), Ryan McCorvie, Mike Astle. **Not Pictured:** Uri Eden Marq Ellenbecker, Cynthia Gong, Ben Hendricks, Kevin Hickerson, Shayan Mookherjee, Lisa O'Rourke, Hitaine Patel, Matt Vanderzee. **3rd Row:** the President and God Emperors of Ricketts House. **4th Row:** Geoff and Neil; Sham, Terry, and Andrew Huntington shower Pat Higgins; Dann and Andy Cotter at the barbecue.

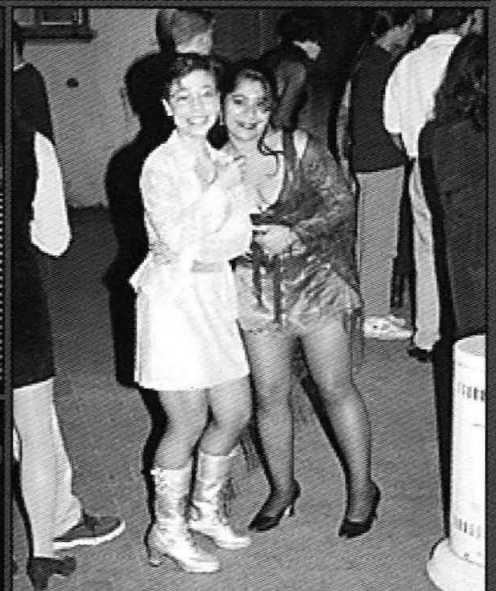


# Apache

**1st Row:** Amit Kshatriya, Cate Gifford, Chris Brichford, and Kim Harle enjoy life safe on the couch; Sara Beaber and Tad Fujiyoka smile for the camera; temporary work-frosh Eric "Elrond" Strom tackles the pot. **2nd Row:** Scott Noble takes a puff; Jamie Walls, Rob Chen, and Brendan Dunn smile smugly, feet courtesy Dave Hammond; Lauren Mills and Rachel Hunter. **3rd Row:** Kamran Vakili helps build apache; Keith Peters, Kim Harle and Ryan McCorvie in the tunnels. **Bottom Row:** Tshy enjoys apache wine; Terry Moran and Rob Johnsom are up to no good; Kohl Gill deliver's Juanita's love child--the Bust of Justice.



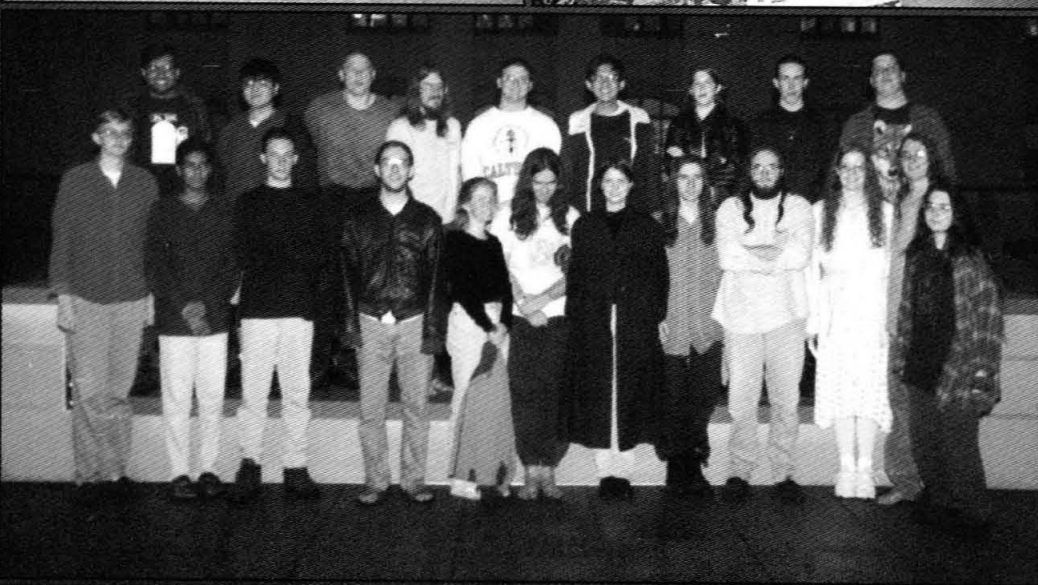
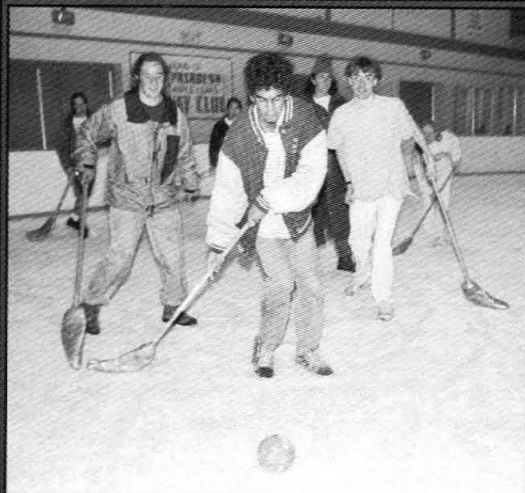




1st Row: Phil holds his drink daintily; Lauren Mills, Rachel Hunter and Sham on the couch; Dave Hammond, Kim, Cate, Ryan in the back; brute-squad member Kevin Schulz overlooks the party from the ledge. 2nd Row: Jasmine Sekanina gives Mike Astle an unexpected kiss on the cheek; Dave, Barbara and Maria Satterwhite stand and talk; Ivette and Sudipta crack sheepish grins. 3rd Row: Andrea tries hard to stand up; Jamie and Rob Chen survey the evidence of mass gluttony; Jing Xu smiles for the camera; Caroline McCoy at the end of a long, hard night. 4th Row: Jason Wiener single-bandedly breaks wood for the Apache fire; Matias and Lisa enjoy the cozy cafe atmosphere; Mike molests Scott Noble as Jason Wiener makes no attempt to stop him; Ben Hendricks bares his breast.



**Makeup Photo:** Hitaine Patel, Matt Vanderzee, Brigitte Roth, Uri Eden, Richard Yeh, Sudipta Bardhan and Jim Quallen (they're engaged), Evan Horowitz. **1st Row:** Ishy and Kevin Schultz's Pyro contest entry (Andrew Huntington assisted with chemicals). **2nd Row:** Dave, Pankaj, and Andy at broomball; Sham's last day on social team; a darby Wiener smokes the pot. **3rd Row:** Jarah and Jamie; the darbs propose peace; the tech declares war between Ricketts and Dabney.

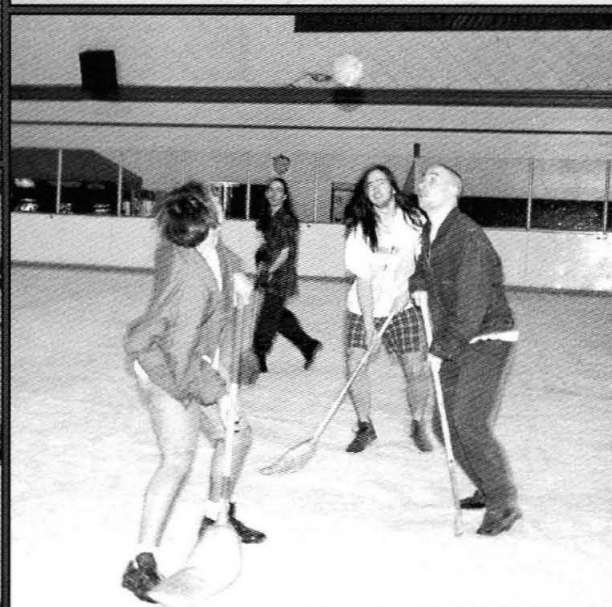
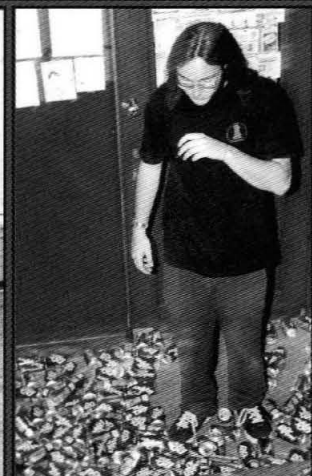


**Juniors:** Kobi Gill, Shay Chinn, Terry Moran, Shaggy, Brandon VandeBrake, Rob Chen, Sara Sanders, Kevin Carle, Geoff Smith, Michal Sumliski, Sid Padmanabha, Rob Johnson David Blau, Sarah Beaver, Jed Wing, Barbara Novak, Jason Sekanina, Dustin Green, Lael Erskine, John Grossman, Erin Lynch. **Not Pictured:** Sudipta Bardhan, Liubomir Borisov, Boris Dimitrov, Evan Horowitz, Emil Kartalov, Milena Marinova, Kiran Shekar, Advoquita Stude, Ying Tian, Patrick Vela, Jennifer Wang, Jing Xu. **4th Row:** Dustin Green, Ishniferitsu, and Kevin Schulz prepare a sawdust pentagram and fire-spitting gargoyle for the pyro contest, which was won by Sham Kakade's acetone bombs.





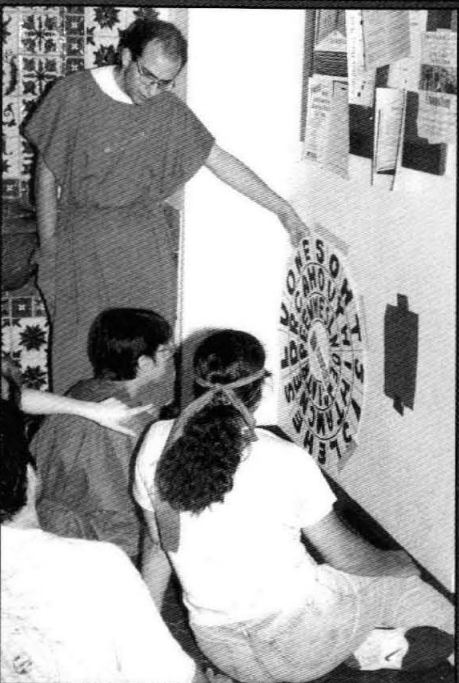
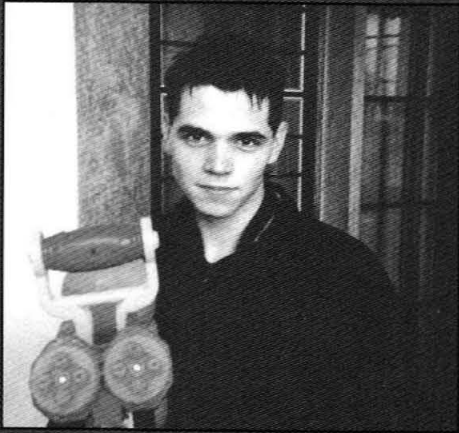
**Seniors:** Liz Johnson, Phil Sutton, Andrew Huntington, Jason Wiener, Yani Copas, Jarab Evslin, Patrick Spradlin, Neil Jones, Dann Eckstein, Jamie Walls, Tad Fujioka, Scott Noble, Sham Kakade. **Not Pictured:** Travis Collier, Rob Cresswell, Ramya Dissanayake, Matias Eljovicb, Myke Hoskins, Thinh Ly, Aaron Matz, John Mulcahy, Jim Quallen, Radbika Reddy, Marco Santos, Ron Stowell, Eileen Wexler, Michele Wiegand, Simon Yu. **1st Row:** Eric and Jason Briceno play shopping cart polo for Snatch; Mike Astle gets Dr. Pepper; Chris Brichford, Dave Hammond, Shaw, Steve McCoy, Andrew Huntington, Erin, Ying and Patrick Spradlin after the Y-bike. **2nd Row:** Geoff Smith and Jing vs. Steve McCoy and Erin; Terry and Rob Johnson run for social team; Chris, Jed, and Matias at broomball. **Bottom Row:** Jason Briceno, Jamie, Jarab, and Mike Astle prepare to throw a fireball; Amit, Cate, and Jarab get ready for crew.



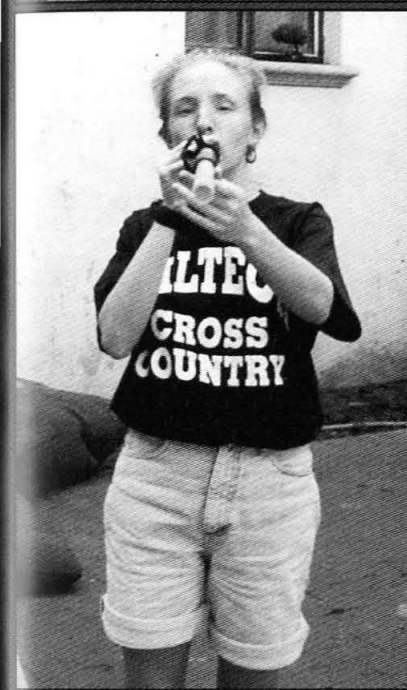


## DITCHDAY '97

1st Row: Smack junkies Brian "Isbnaferitsu" Patton and Elrond Strom suit up for water gun action in Jarab Evslin's Armageddon stack; Jing Xu and Ryan "Disco" McCorvie eat and admire the 666x666 (the largest In-n-Out burger ever!). 2nd Row: Rob Saliba, Brigitte Roth and Lisa O'Rourke work to find the armless idol in Jamie Walls and Phil Sutton's Santa Sangre stack; Hitaine Patel and Ryan whip Leon Torres; Shawn Watts, Steve McCoy and Jeff Clinton, cool off in Millikan pond after a private audience with a "busty and brunette" stripper, as part of Sham Kakade and Dann Ecksteins Seven Sins stack. 3rd Row: Ryan "Now with Heroin!" shoots up on the olive walk to recover from holy water damage; Kevin Hickerson and Brigitte recline on the couch; Elrond, Steve McCoy and Mike Astle gorge themselves at lunch.



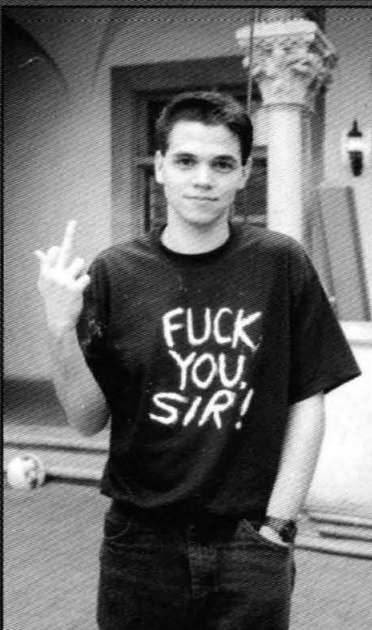




First Row: Cate Gifford, Pat Higgins, Andrea Hasenstaub, and Kim Harle engage in an egg fight as part of Sudipta 'Bardhan and Jim Quallen's Humpty' stack; Rob Johnson, part of Scott Noble's, Marco Santos's and J.J. Carrasco's "Godfather" stack dances with Dean Barbara Green. 2nd Row: Sara Beaber wields a blowgun as part of Tad Fujiyoka's "Alaskan Warrior" stack; Andrea Hasenstaub, David Hammond and Andrew Casteel enjoy refreshing Holy Blood with lunch; Amit Kshatriya is sexier than you are. 3rd Row: Kohl Gill fires a rocket launcher in the athletic field; Kiran Shekar, Marq Ellenbecker, and David Blau look sharp while planting a (dummy) car bomb in Kim West's car as part of "A Lesson in Terror" by Andrew Huntington; Erin Lynch after a long day. Bottom Row: Jed Wing carefully searches Baxter pond for fish as part of Tad's stack; Jing Xu is a dancing fool.



1st Row: Michele Wiegand and the elusive Liubo Borrisov at the Spring Baal; party in the pool thanks to the hard work of Andy Cotter, Jarab Evslin, Pankaj Mehta and others. They used three layers heat-sealed black plastic and built a retaining wall to keep the water away from the north side of the house. 2nd Row: Pollacks Amit Ksbatriya and Terry Moran at PCDE; Jarab's bbq special: a stick of butter on meat; Jason Wiener, Mike Astle, Kevin Neville, and Steve McCoy lay plastic for the pool in the ill-fated first attempt that flooded the SAC. 3rd Row: Isby is rude day; Keith Peters and Alice afloat; Alice, Patrick Spradlin, Jarab, and Pankaj play with fire in the pool.



The Illustrious Waiting Staff. Mike Astle (Head Waiter), Toby Bartles (briefly), Jarab Evslin, Jamie Walls, Jason Wiener, Pankaj Mehta, Jed Winge, Cate Gifford, Dave Hammond, Erin Lynch, Brandon Vandebroke, Robert Chen. Facing Page, 1st Row: Jason Sekanina's creation (it blinks); Marco Santos is camera shy; Terry Moran in the Spring Baal's goth room; (real) blood streams down the pentagram during prefrosh weekend, causing quite a controversy. 2nd Row: Dann Wycoff; babies + lighter fluid; bondage barbie (before the plastic surgery).



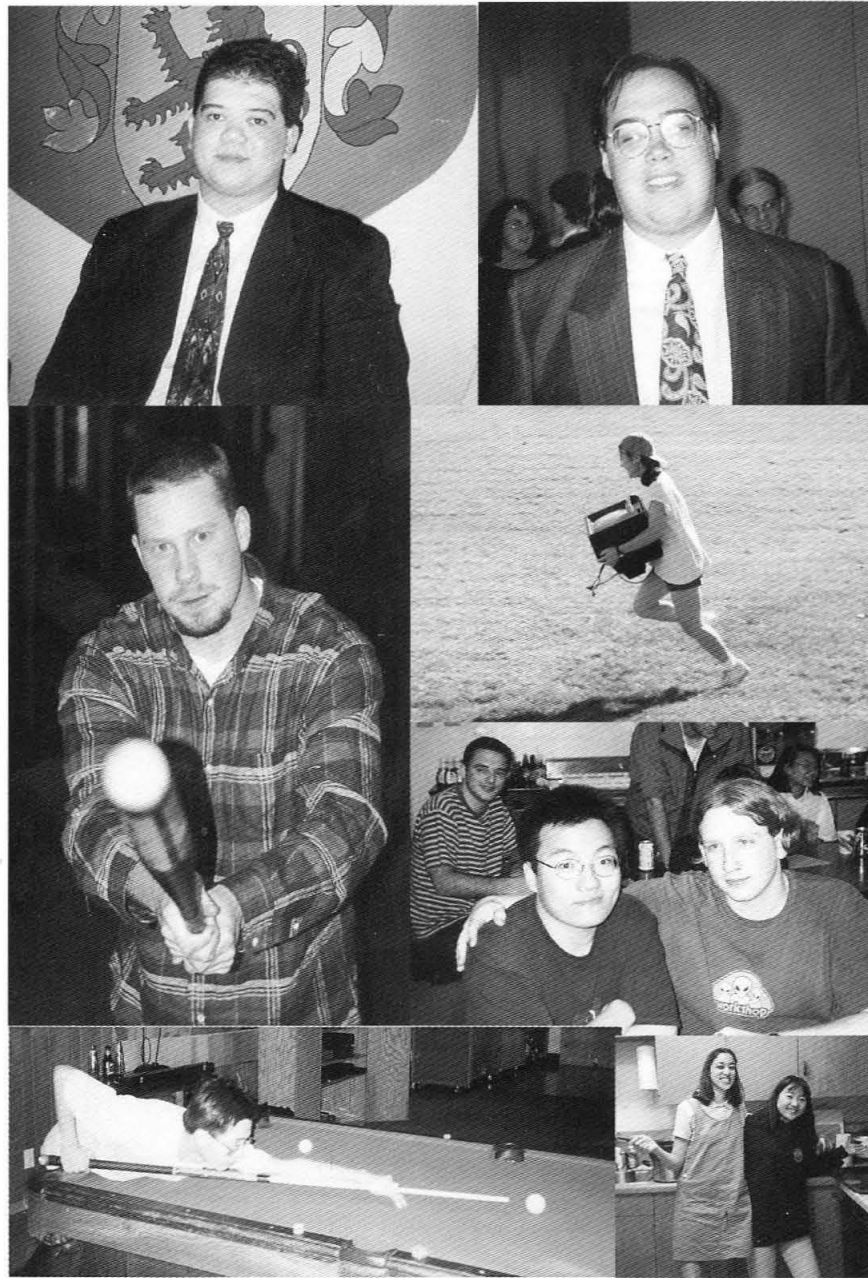


1st Row: Jason Sekanina's creation (it blinks); Marco Santos is camera shy; Terry Moran in the Spring Baal's goth room; (real) blood streams down the pentagram during prefrosh weekend, causing quite a controversy. 2nd Row: Dann Wycoff; babies+lighter fluid; bondage barbie. 3rd Row: Jason Sekanina; Kiran Shekar, Ben Bunnell, Jason Wiener, Steve McCoy, and Juan Nuno mosh at the Spring Baal. 4th Row: Rob Johnson is so goth; Amit, Matias, Jara, Keith Counsel, Wiener, and Andrea chug for HPKOM.

Photography and Layout by the Ricketts House Historians David Hammond and Erin M. Lynch. We'd like to thank many people who contributed Ditch Day photos and in particular, Mike Astle for his excellent desert fireball photography.



# Ruddock House



The classiest establishment on campus

Good friends, bad taste, and a sh\*\*-load of fun.



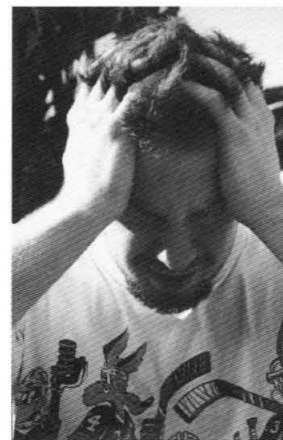




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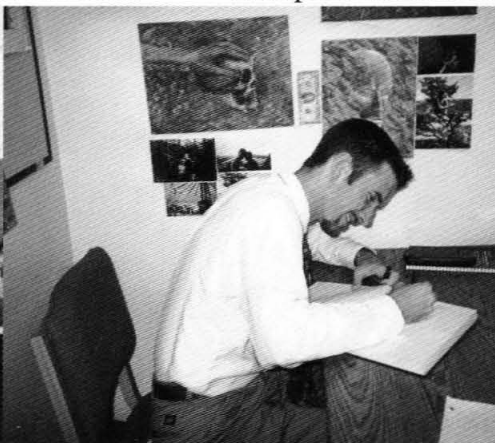
Before the first day of classes:  
Hey, I can handle Caltech 'cus I'm smart!

After the first day of classes:  
This place is different, isn't it?

After one week:  
OH GOD!



The Kanwaudrey Beast



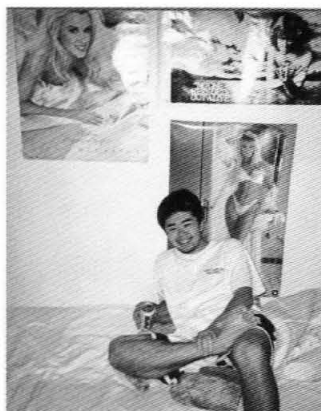
1+1=3? No, no. 1+1=4? ...



Blue hair! Blue hair! Blue hair!



You can always tell which  
ones are going to be Ph.



Keep dreaming Tosh, keep dreaming!



Something wicked.



A new fad?



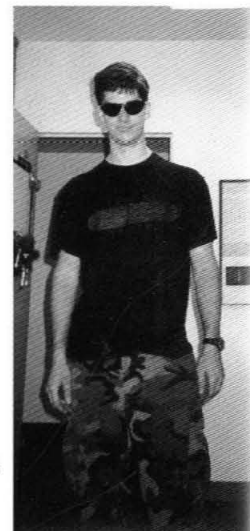
A cute couple.



Russell is the happiest man alive.

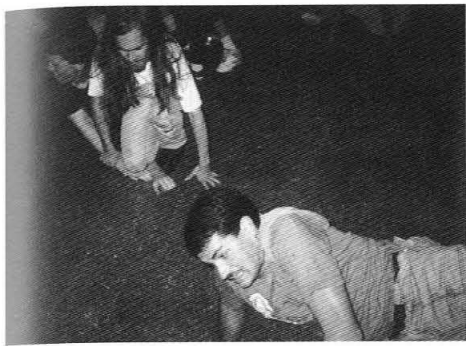


Shh! Be quiet, Ross. If I do a  
stupid trick maybe they won't  
notice what we were doing up  
here.

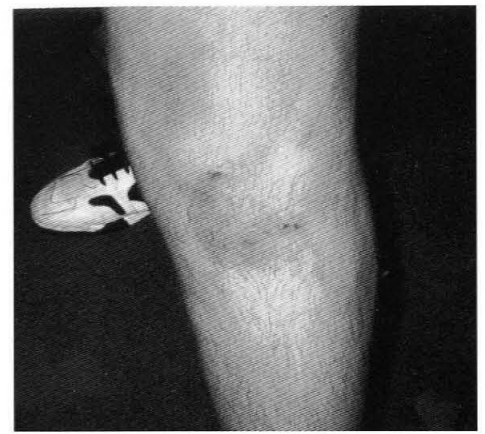
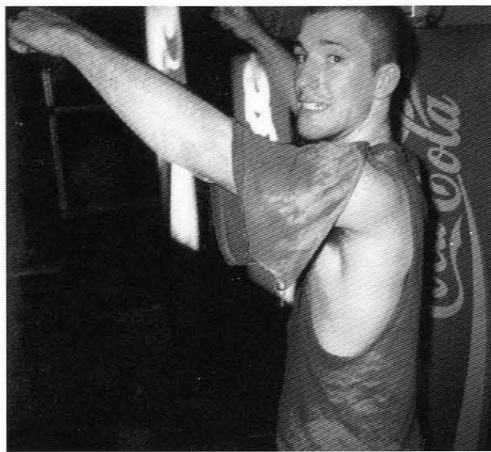


Call me "Stud".

# Buford? Who's He?



A new trick is invented, when Jonathan wrestles with ghostboy.



Ouch.

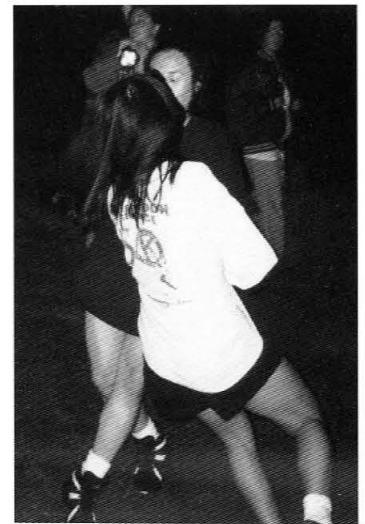


Ouch, part II.

Damn it! My mom just bought me this shirt!



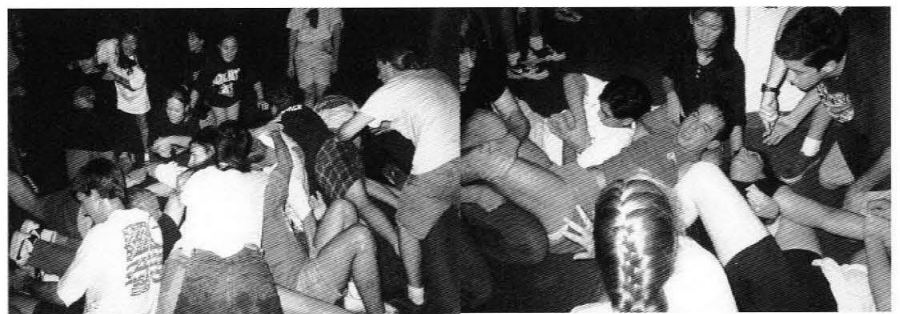
One, two, three, four, I declare a showering war!



Is this system stable?



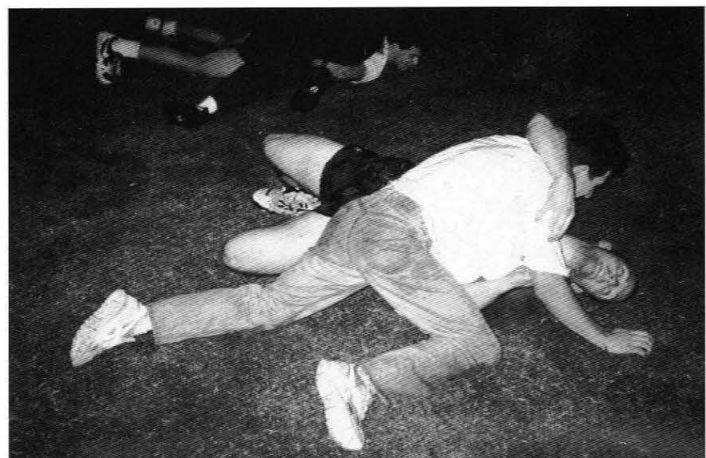
Hi, mom!



Piles.



The administration's secret plan: to spray the ath fields with an undetectable pesticide...WE ARE ON TO YOU!



There seems to be far too much happiness in this scene.





# GAAC



Gangstas 'n da hood.  
This year's GAAC sported  
the theme of inner city



Pumpkin Man: those  
crazy Turner brothers!



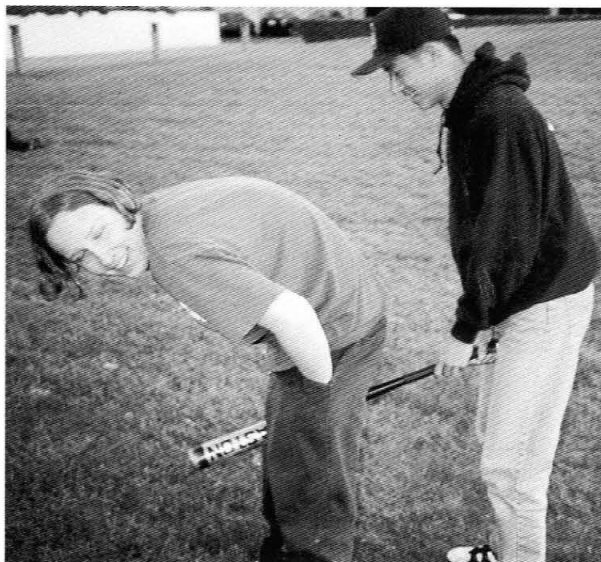
1st year here and Umesh already  
has a drinking problem.



"Say, Amanda, what's up with the  
Blues Brothers over there?"



If ya knock off your roommate  
ya get a 4.0!



Minoree gets it from Caleb,  
while Karl gets it from  
Andrew!

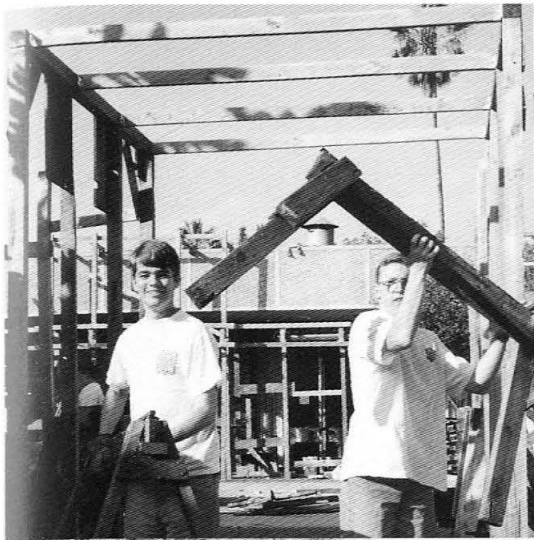
Welcome, Bill!



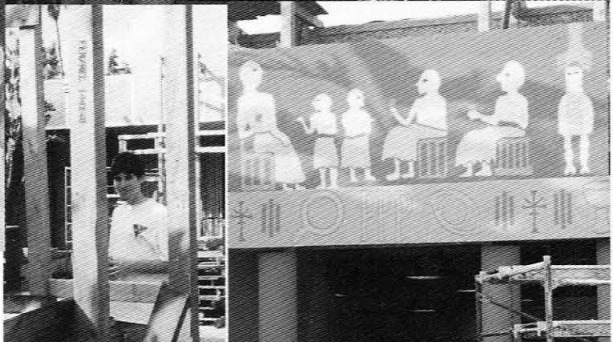
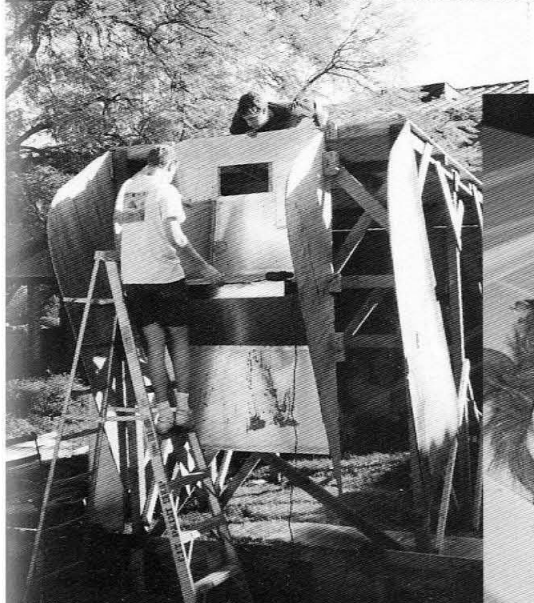
to Baxter!



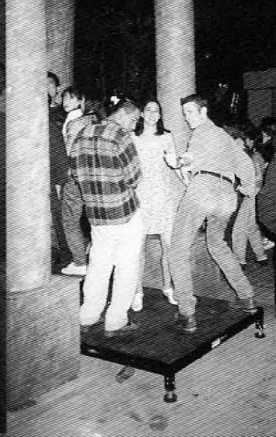
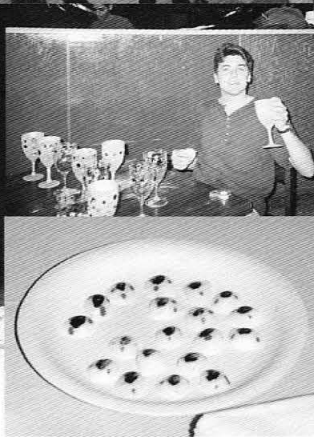
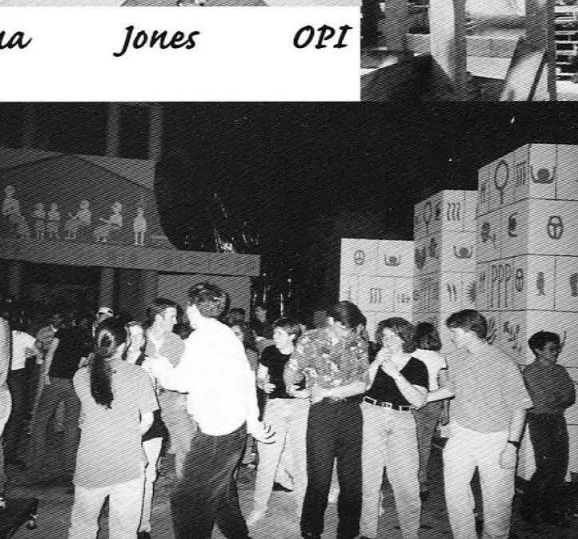
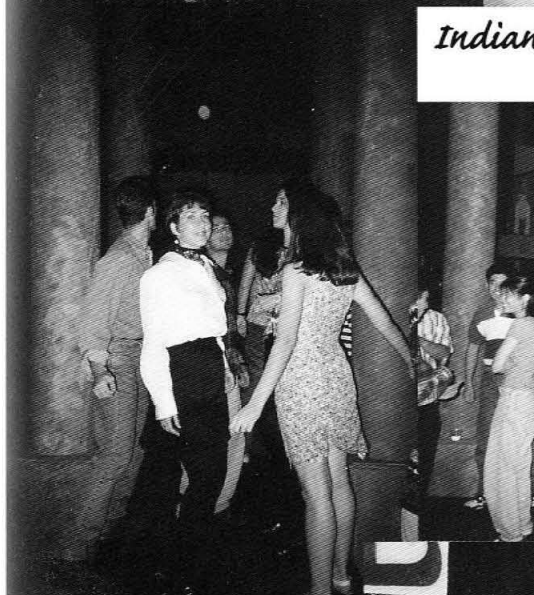




# OPI



*Indiana Jones OPI*





# Formal Dinners



Aren't they cute?



Two handsome studs.



"So I says to her, 'Hamburger! Hamburger! What in 'da world do you want with hamburger?'"



They call me Mr. Photogenic.



"Beats me."



When the dinner conversation goes sour.



Yummy TFM food. "Hand check!"



Karl stands ready to please.

# Elections!

A quick distraction and "Oh my God! I didn't think Lon could fit through that window!"



The teddy bear dynasties?



A little surprise for Lon.

# Installations



Jeremy hazily recalls taking over the Ruddock House presidency.



Out with the (oh no!)ld...



Installations is a lot like shopping at K-mart.



And in with the new.



Social Team checks to make sure no one can discover their secret Hawaiian slush fund.



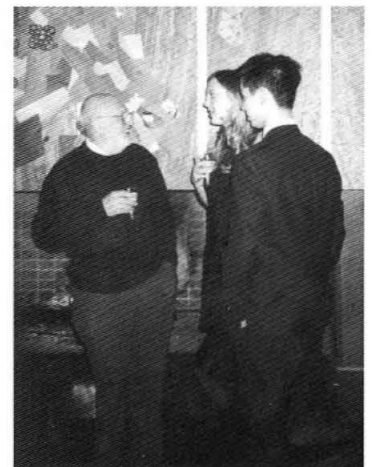
The UCCs smile.



Thank God for Gloria!



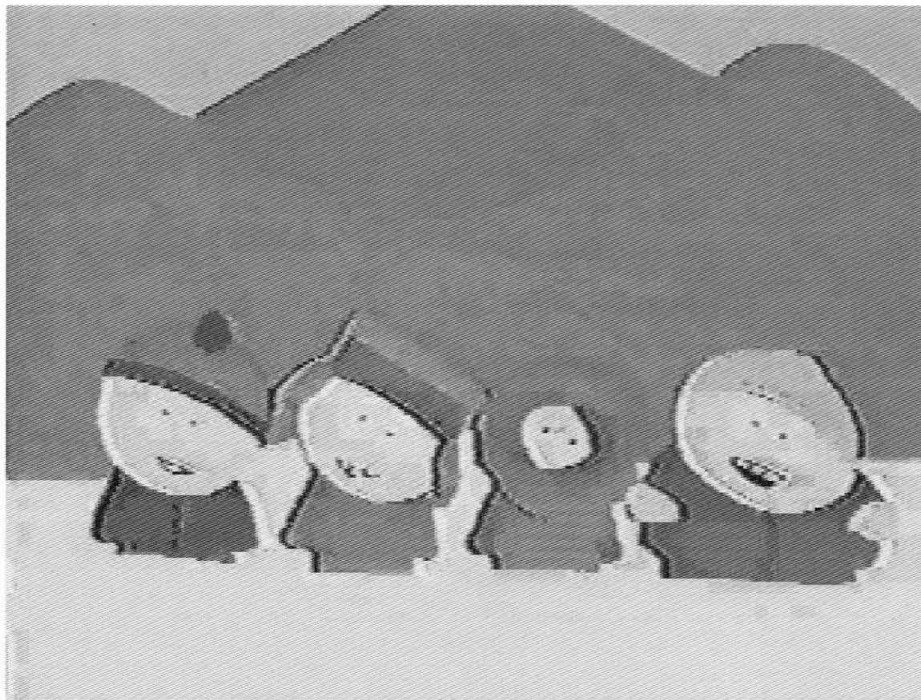
Ruddock loves Prof. Shumate. Prof. Shumate loves Ruddock. Nice!



Our new Dean Revel gets a taste (sip?) of Ruddock



# F R E S H M E N



From "The Spirit of Christmas"

Not pictured are: Daniel Abrams, Jonathan Adams, Amrit Basu, Vidya Bhalodia, James Bresson, Scott Bruce, Corey Burke, Chris Chang, Samuel Chung, Walter Collins, Jack Cummings, Marc Favata, Kevin Franklin, Joe Haas, Anthony Ho, Russell Howe, Lisa Hung, Kanwar Kahlon, Stephan Kazachki, Hanna Kim, Jessie Kim, Brent Kious, Katie Kovac, Audrey Lee, Patty Lee, Renee Lee, Yi-Ping Liu, Dominic Lucchetti, Aron Meltzner, Chris Miller, Svjetlana Miocinovic, Katie Noyes, Tosh Ohtake, Kat Oseen-Senda, James Pelayo, Peter Plavchan, William Sharp, Angela Shum, Jeremiah Smith, Kartik Srinivasan, Jason Turner, Jim Wong.

# S O P H O M O R E S



Richi Gilmore, Chris Liu, Andrew Ling, Matt Dawson, Ben Freeman, Karl D'Adamo, Peter Stobe, Caleb Lavergne, Joseph Fouch, Alan Lewis, Victor Huang, Daisy James, Mike Westover, Jacques Frechet, Ojas Save, Hanna Kim, Leigh Engen, Ivana Nikolic, Minoree Kohwi, Carl Anhalt, Steve Na.

# J U N I O R S



Josh Sacks, John Reese, Jeremy Mans, Dahzi Chen, Helen Yeh, Hiroshi Ishi, Jeffrey Ho, Eric Jan, Lee Rumsey, Grace Yang, Emily Ho, Vincent Quitoriano, Abhay Manusmare, Mingjing Huang, Dan Valez, Michael Michrowski, Umesh Bhandary, Lisa Ngo, Sean Suchter, Colin Reed, Louis Thomas, Michelle Miller.

# S E N I O R S



James Dooley, Tony Wong, Ross Segelken, Bill Dougherty, Dmitri Linde, Gerrit Kirkwood, Atif Malik, Melissa Hampton, Lon Christensen, Amanda Eckermann, Mark Stewart, Heather Ryan, Fong Liu, Mory Lucas, Carter Moursund, Steve Chase, N.G.W.M.M. Kanchana, Roopesh Doshi.



# The Ruddock Ath Machine



Air Tom.



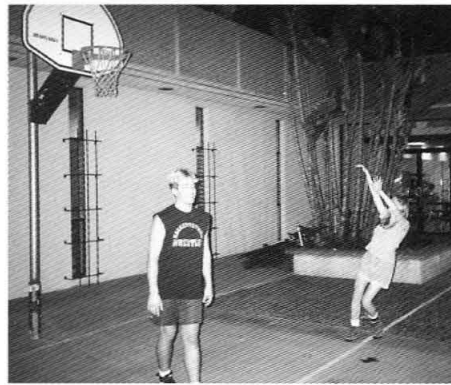
No one will let Jay play...



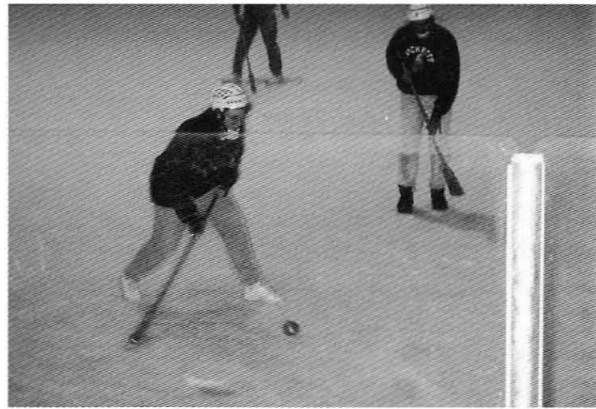
...because he is...RUDDMAN.



Richi hangs on for dear life.



Mel scores, Jay thinks about scoring.



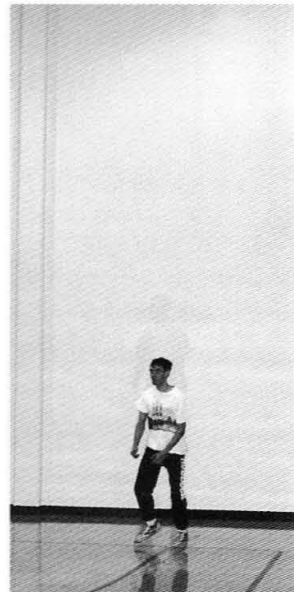
Michelle gets ready to whack the ball.



Ryan uses his spring loaded shoes to lift Ruddock to a win.



Why these two are like this, we have no clue.



Sometimes playing for Ruddock makes you feel kind of small.



UFO.



Mory catches a UFO

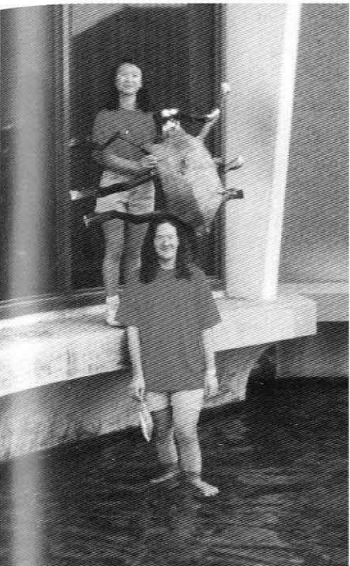


Basketorgy



The ever enthusiastic crowd chants "BUDDOCK! BUDDOCK!"

# Yesterday Was Ditch Day



Arachnoditchnia



Louis is digging for worms.



Unfortunately, housing eventually removed this Alley 4 extension.



The dire results of a boobytrap!

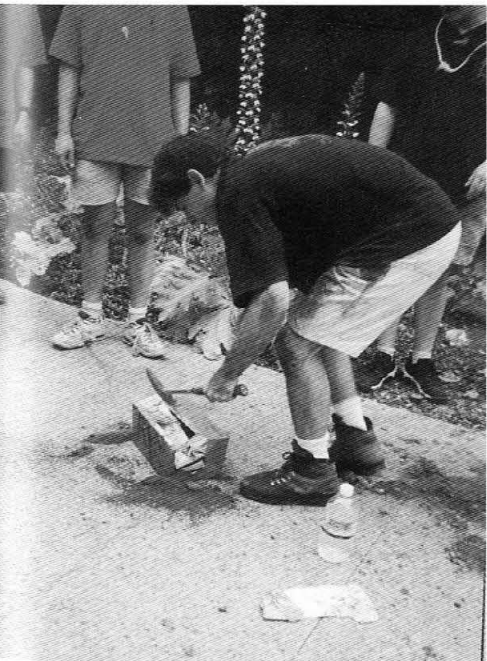


Sure, we can all fit!



Heather says, "Go to bed early frosh, because tomorrow is Ditch Day!"

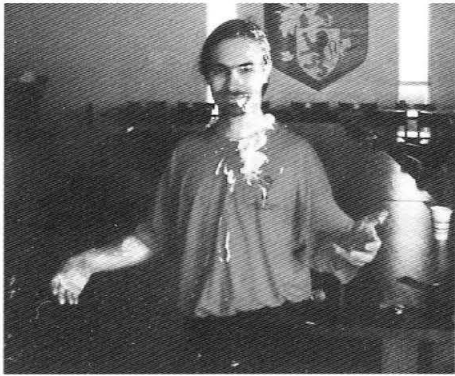
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Destruction!



Off we go like a herd of turtles!



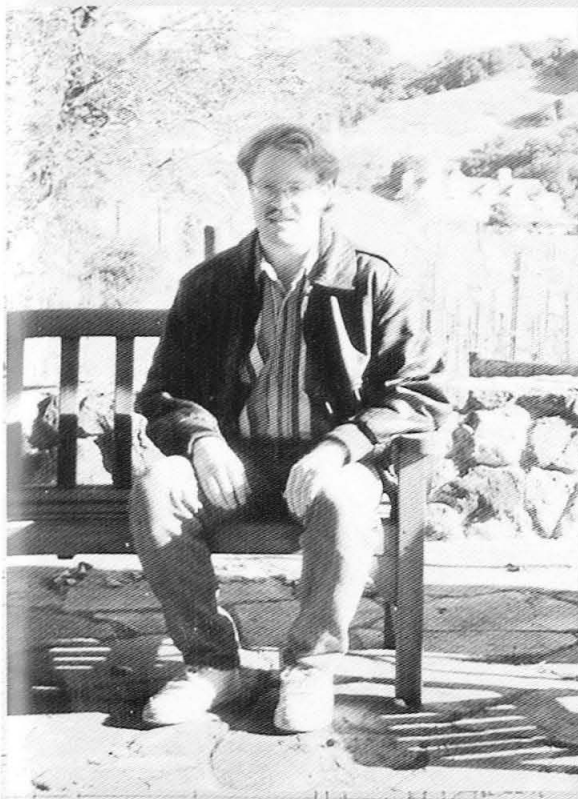
Mmmmmm!





SENIORS





**Michael D. Stage**

PHYSICS

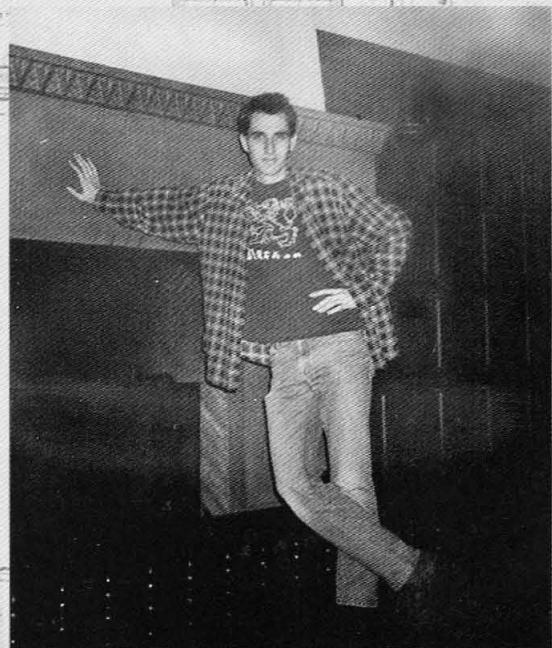
Syracuse, New York

Blacker Hovse

*It's not the years, it's the mileage.*



$\gamma$   
 $\delta$   
 $\beta$   
 $\gamma$



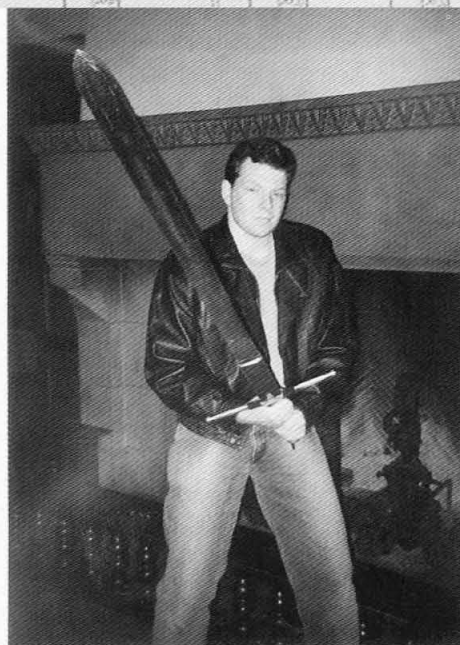
**Michael A. Fox**

E&AS

Pasadena, California

Blacker Hovse

<\*>



**Jeffrey C. Miller**

BIOLOGY

Las Cruces, New Mexico

Blacker Hovse

*Sometimes a sword is just a sword.*

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## Emily Rempel

ELECTRICAL ENGINEERING  
Mukwonago, Wisconsin  
Ruddock House

*For I am not ashamed of the gospel of Christ,  
for it is the power of God to salvation  
for everyone who believes.*

— ROMANS 1:16



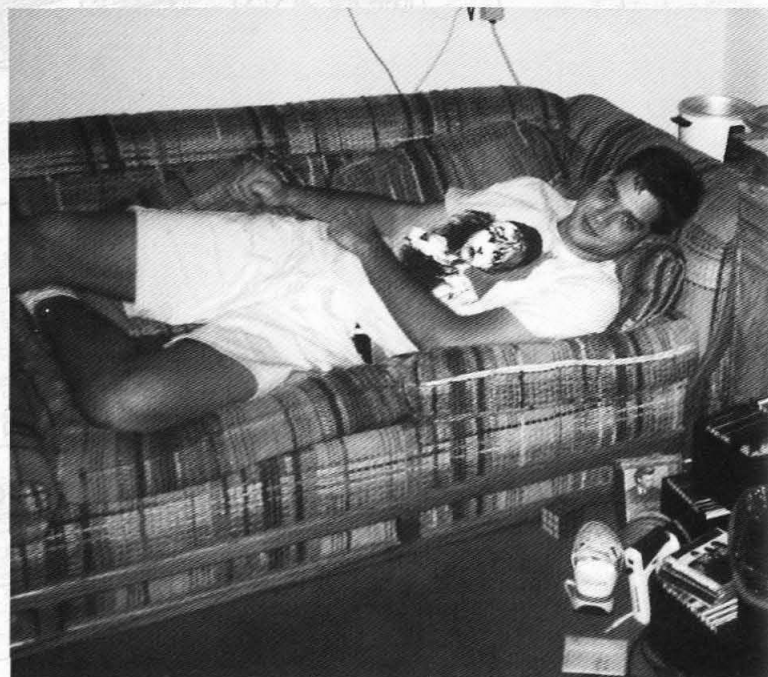
## Morrison Ray Lucas

MECHANICAL ENGINEERING  
Chanhassen, Minnesota  
Ruddock House



## Seth LaRoe Lacy

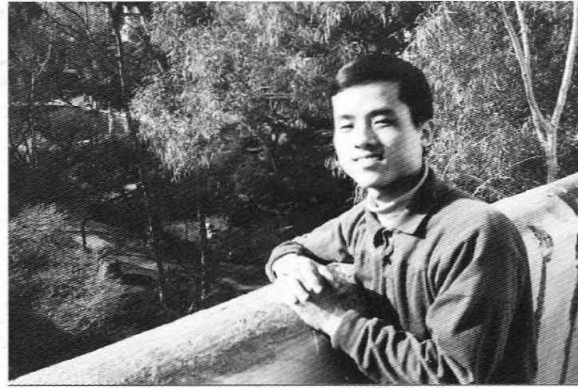
PHYSICS AND AERONAUTICS  
Farmington, Arkansas  
Ruddock House





## *Robert Lin*

ELECTRICAL ENGINEERING  
Flushing, New York  
Fleming Hovse



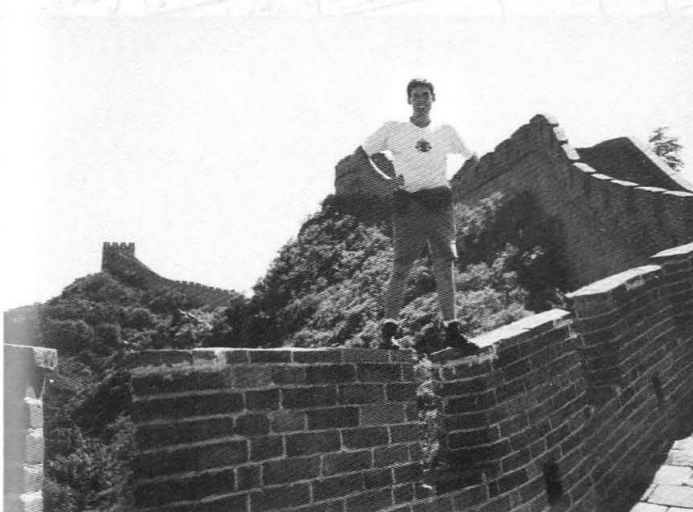
## *Paul Henderick*

MECHANICAL ENGINEERING  
San Lorenzo, California  
Fleming Hovse



## *Brian Bircumshaw*

MECHANICAL ENGINEERING  
San Diego, California  
Fleming Hovse





## Emily Y Chen

HUMANITIES  
Taipei, Taiwan  
Ruddock House

*Good things come to those who wait.*

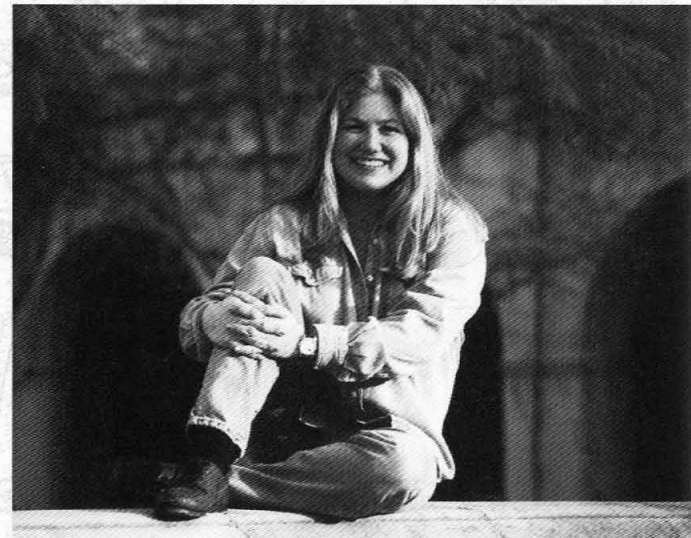


## Amanda L Eckermann

CHEMISTRY  
Denver, Colorado  
Ruddock House

*Some days, it's just not worth  
chewing through the leather straps.*

— EMO PHILLIPS



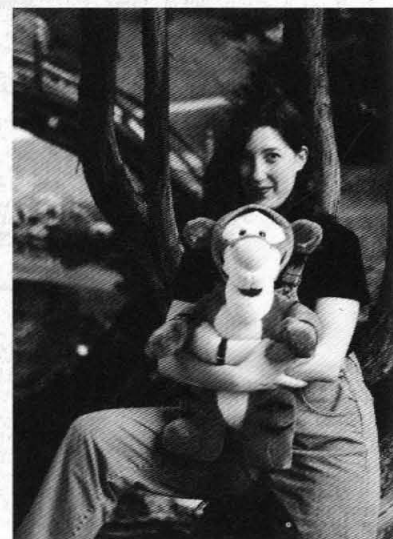
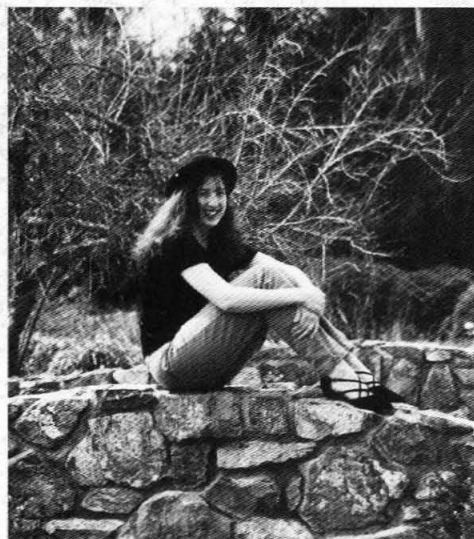
## Heather Kelin Ryan

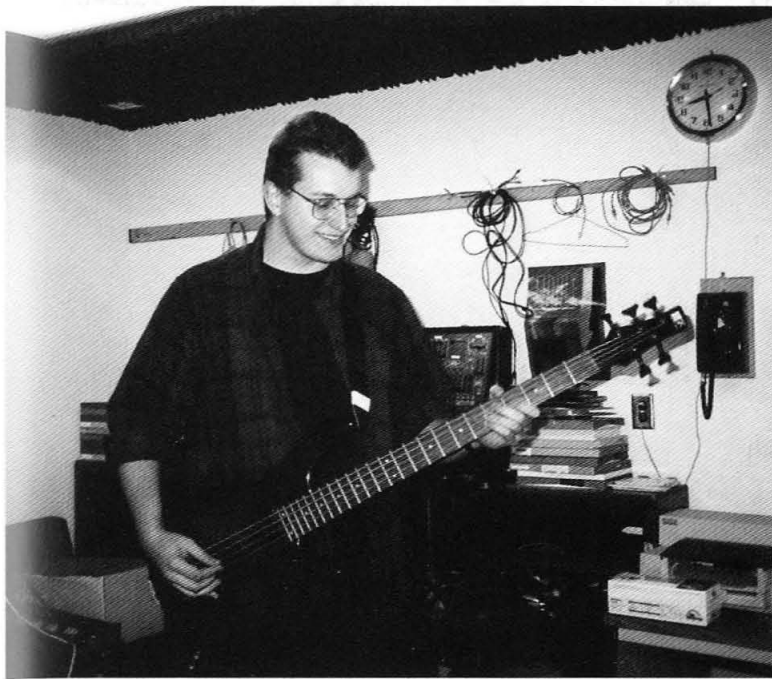
MECHANICAL ENGINEERING  
Columbia, Missouri  
Ruddock House

## Megan Yori Andrews

BIOLOGY  
Hilo, Hawaii  
Ruddock House

*borrow the masted quill  
of the tin cat hat boat –  
write a path through  
drowning pebble silencing  
backlit blackness, razor-soft  
feathered sail rusting  
moonlight reflections*





## Gerrit Owen Kirkwood

MECHANICAL ENGINEERING  
Pittsburgh, Pennsylvania  
Ruddock House



The graduate with the science degree asks:  
"Why does it work?"  
The graduate with the engineering degree asks:  
"How does it work?"  
The graduate with the accounting degree asks:  
"How much will it cost?"  
The graduate with the liberal arts degree asks:  
"Do you want fries with that?"

*If all you have is a hammer,  
everything starts to look like a nail.*



*"There are those who pass like ships in the night.  
Who meet for a moment, then sail out of sight  
with never a backwards glance of regret;  
folks we know briefly then quickly forget.  
Then there are friends who sail together  
through quiet waters and stormy weather  
helping each other through joy and through strife.  
And they are the kind who give meaning to life."*

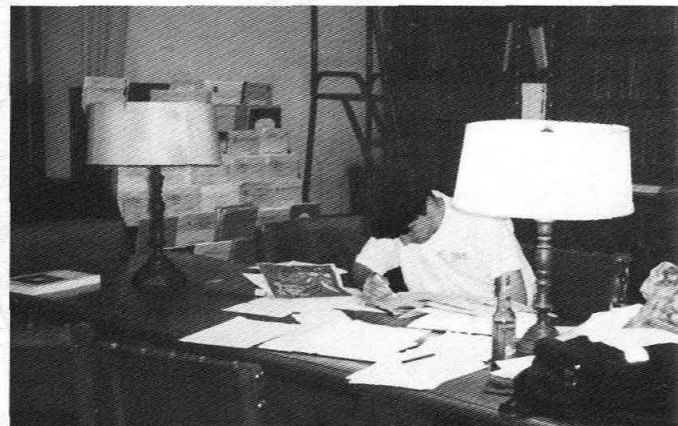
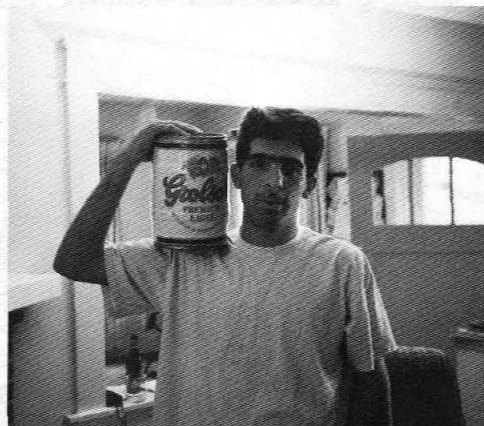
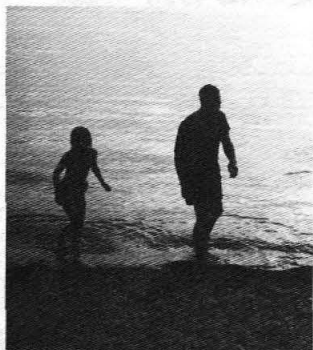
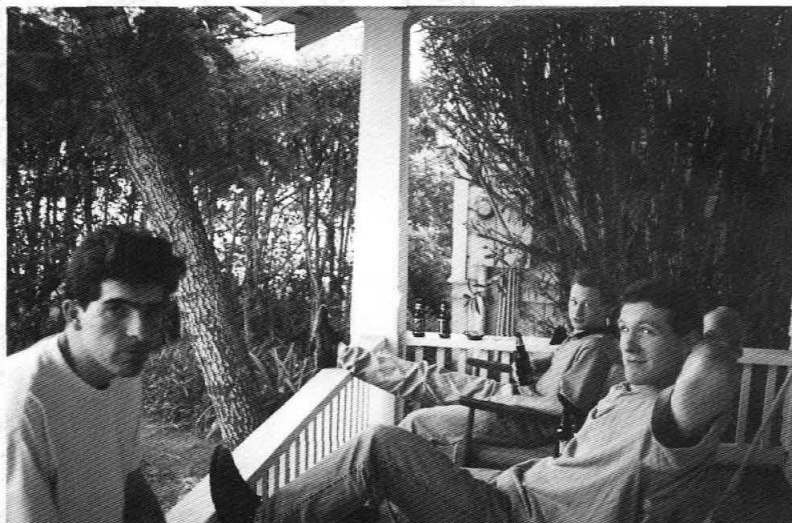


*It's all  
downhill  
from here:*

ELECTRICAL ENGINEERING  
Apple Valley, Minnesota  
Ruddock House

Ross Segelken

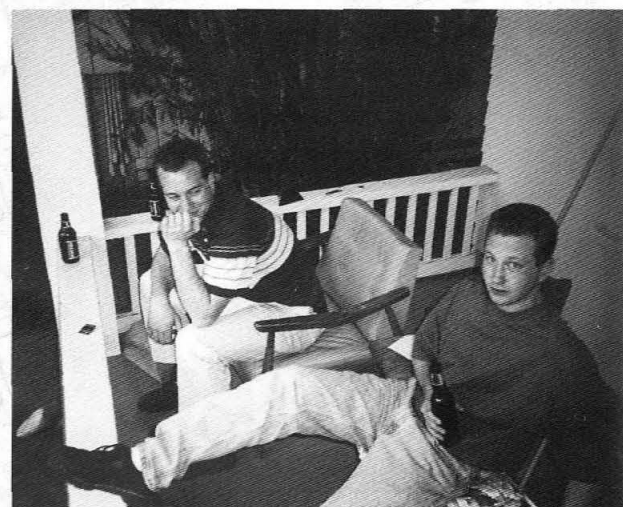




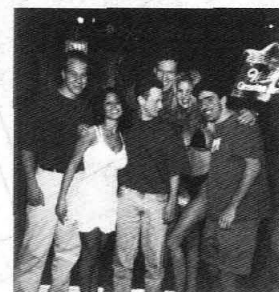
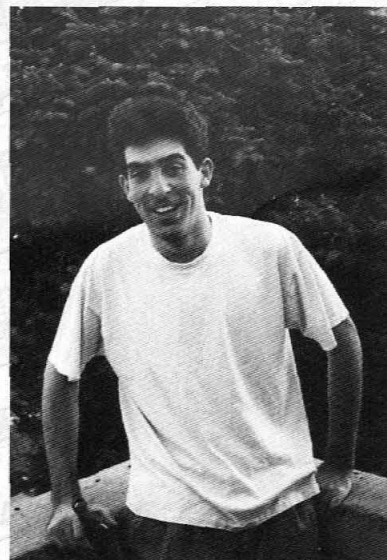
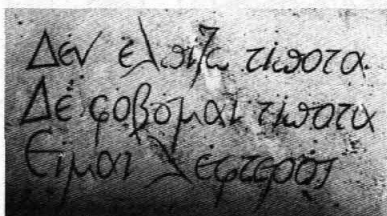
**Evren Turner**  
PHYSICS  
Riverside, California  
Fleming Hovse

**Geoff Beach**  
PHYSICS  
Kalamazoo, Michigan  
Fleming Hovse

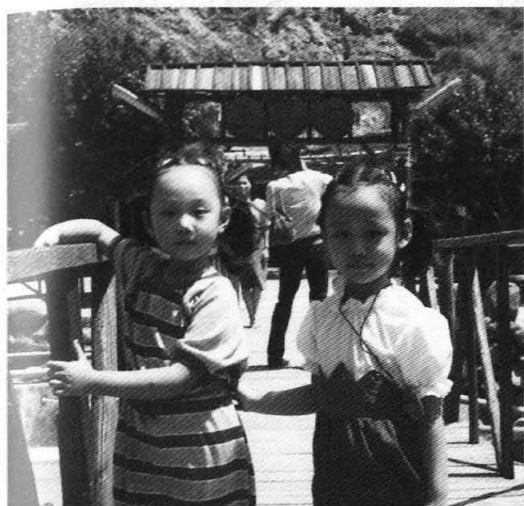
**Chris Moustakas**  
ASTRONOMY  
Carlsbad, California  
Fleming Hovse



*We lived our lives ambitiously,  
We swindled and we lied;  
But in the end, the only thing  
That mattered was we tried.*  
— J PERSCHING







## Jane C Wei, RIP

BIOLOGY  
Poway, California  
Page House

*Thanx IRC, DLL, ToC,  
Insane...procastination,  
but it's now time'  
to be lonely.*



## Kelly Eom

BIOLOGY  
Downey, California  
Page House

*A true friend is someone'  
who is there for you when she'd  
rather be anywhere else—  
I give thanks to God  
for blessing me'  
with such wonderful friends.*



## Ki-Young Suh

BIOLOGY  
Calabasas, California  
Page House

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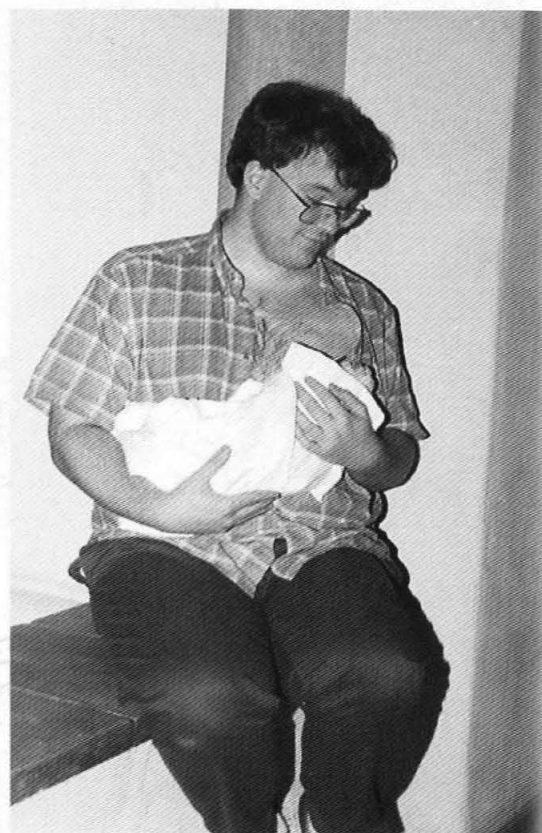
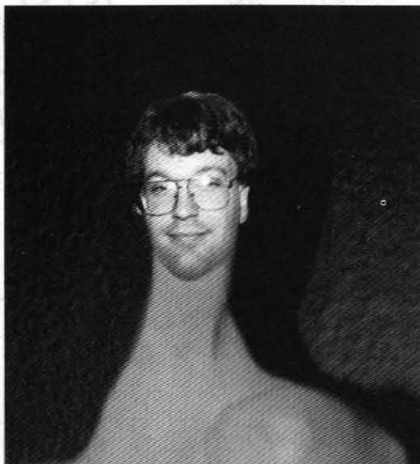
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Marvin picked up the gun and shot his wife. After he made sure she was dead, he entered the kitchen and made himself a turkey sandwich. "I'm out of mayonnaise," said Marvin. "I'll have to get some tomorrow." He left the kitchen and sat down next to his wife's body, caressing her golden hair. "Tomorrow, I think we should go out and do something together, like in the old days. Maybe catch a movie—Oh My God! You're bleeding!" He took his turkey sandwich and shoved it into the gaping wound of his wife, in hopes of stopping what little trickle that flowed. This failed, so he ate the sandwich, thinking that this was the best turkey sandwich he had ever made. THE END...

Poor Marvin.  
Does your demon tell you to go out  
and kill people?  
If so, you should probably not listen to it  
and pick up a hobby instead.

### Jamie D Walls

CHEMISTRY  
Wahpeton, North Dakota  
Ricketts House



### Jarah Evslin

MATHEMATICAL METAPHYSICS  
West Hartford, Connecticut  
Ricketts House

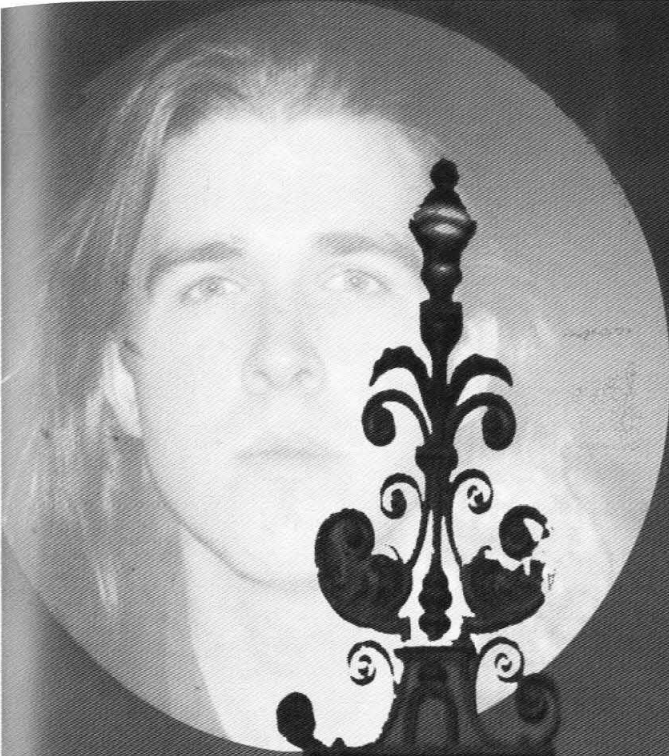
"I'm invincible..."

### Sham Kakade

PHYSICS  
Pomona, California  
Ricketts House







*Scott Charles Noble*

PHYSICS  
East Lansing, Michigan  
Ricketts House

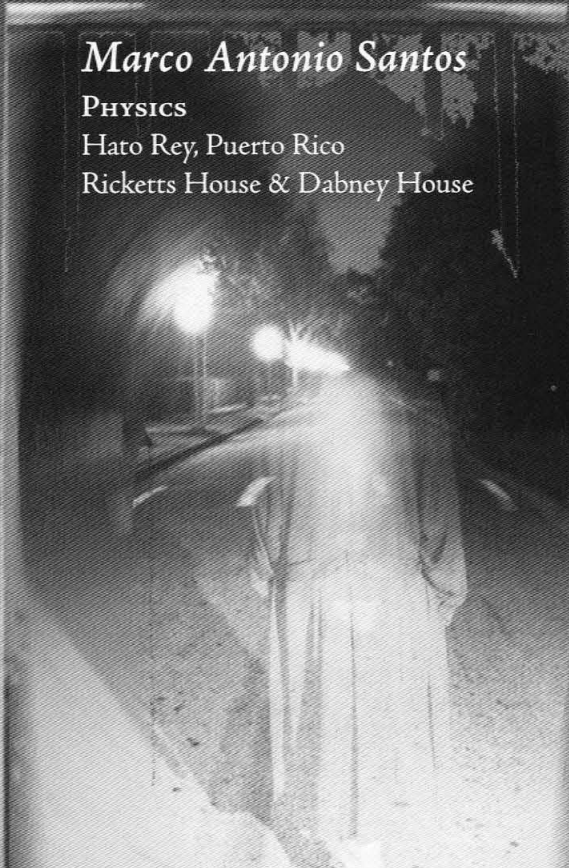


*John Joseph Murphy Carrasco*

PHYSICS  
Wilmington, North Carolina  
Ricketts House

*Marco Antonio Santos*

PHYSICS  
Hato Rey, Puerto Rico  
Ricketts House & Dabney House



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## Pauline Crystal Ng

BIOLOGY  
Alameda, California

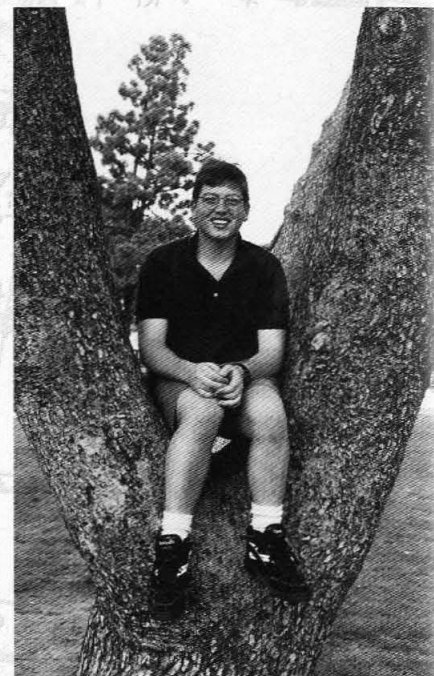


## Seth Blumberg

ENGINEERING & APPLIED SCIENCE  
Santa Barbara, California  
Fleming Hovse

*If I am not for myself, who will be for me?  
If I am only for myself, who am I?  
And if not now, when?*

— A JEWISH PROVERB

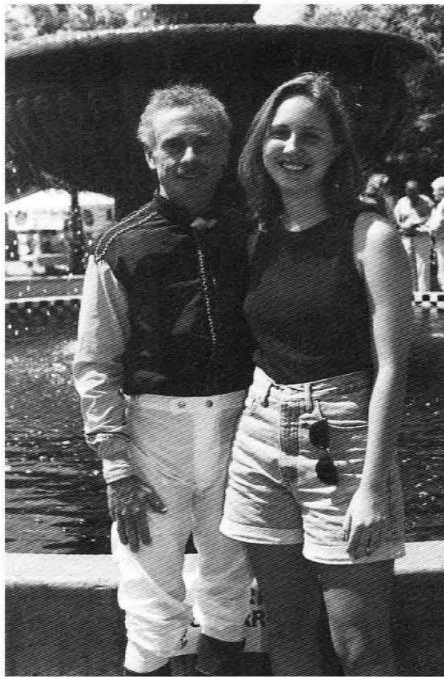
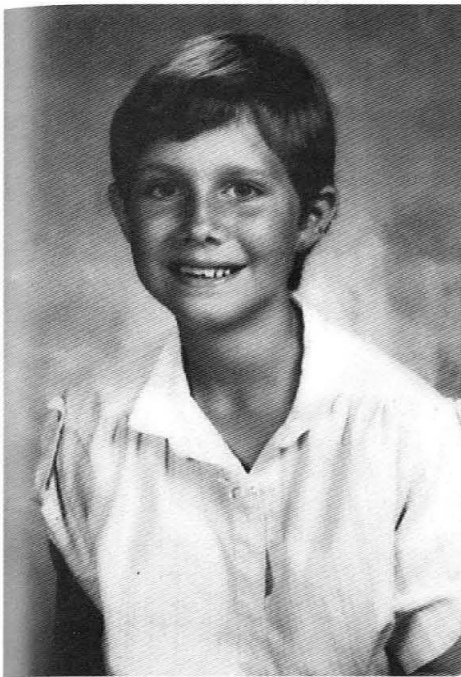


## Richard C Yeh

PHYSICS  
Thousand Oaks, California  
Avery House & Ricketts Hovse

*Do not fear to stumble in the Court of Man.*





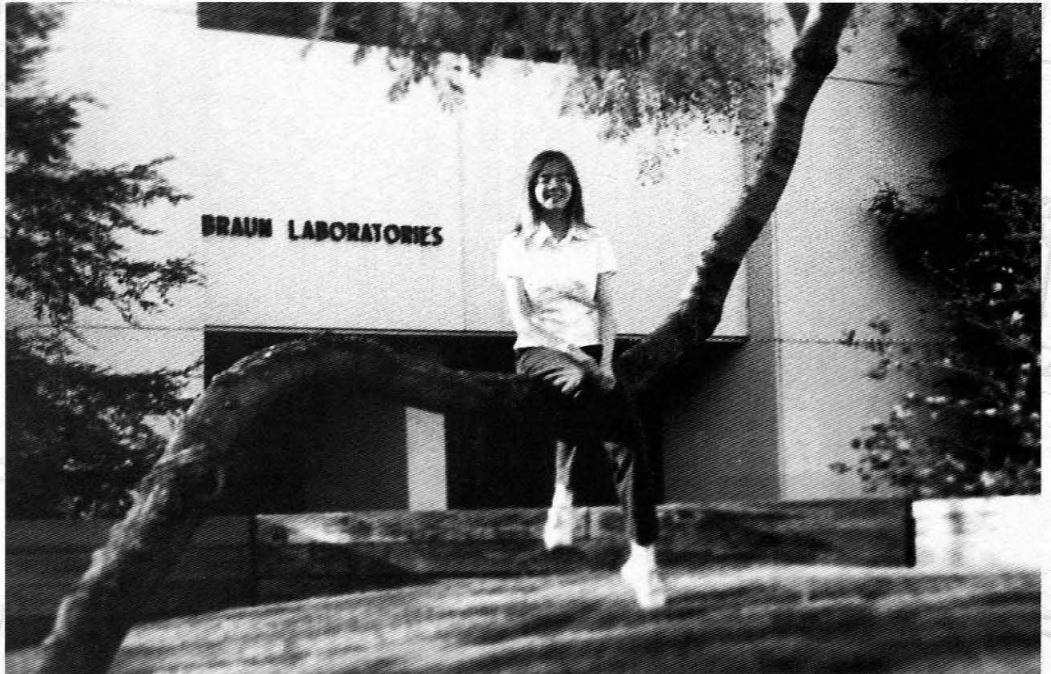
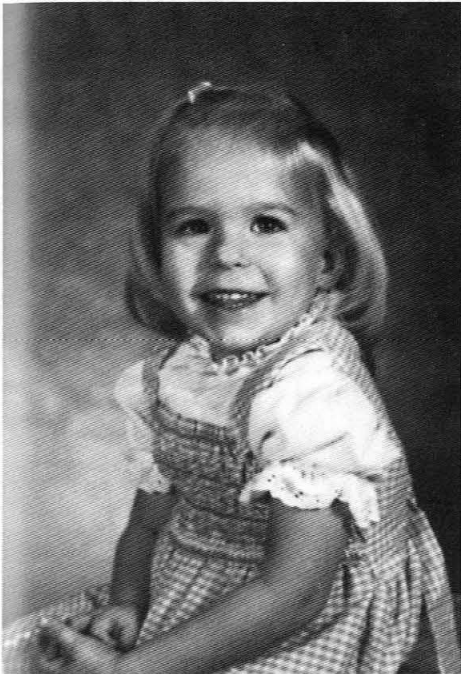
### **Keely Walker**

BIOLOGY  
Spring Valley, California  
Fleming House

### **Barbara Weir**

BIOLOGY  
Cicero, New York  
Lloyd House

*One lives in the hope of becoming a memory.*  
— ANTONIO PORCHIA

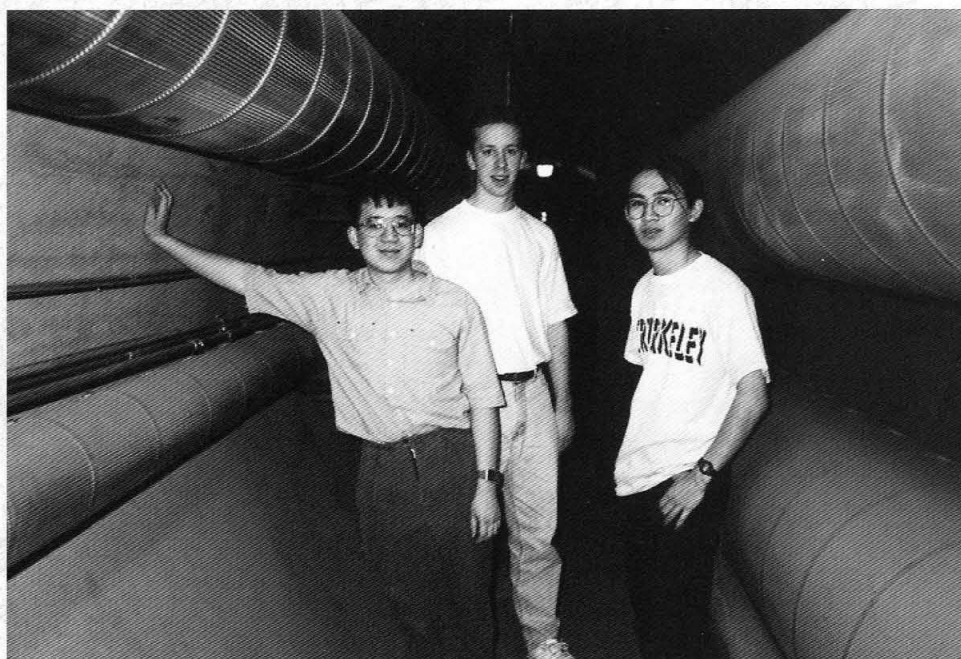


### **Laura Muñoz**

ENGINEERING & APPLIED SCIENCE  
Las Vegas, Nevada  
Lloyd House







### *Matthew Richardson*

COMPUTER SCIENCE  
Vancouver, Washington  
Page House

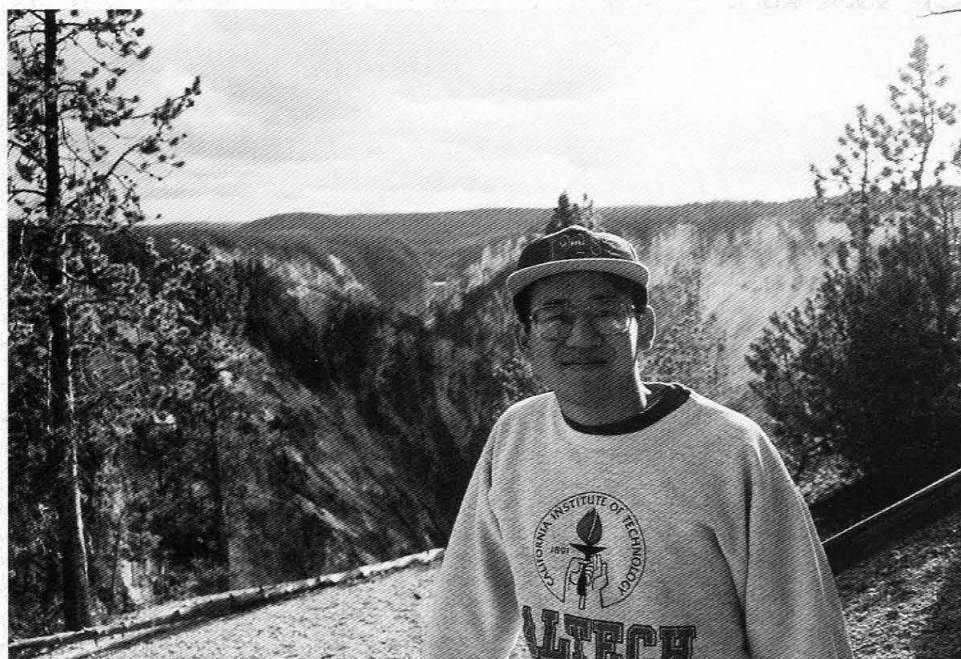
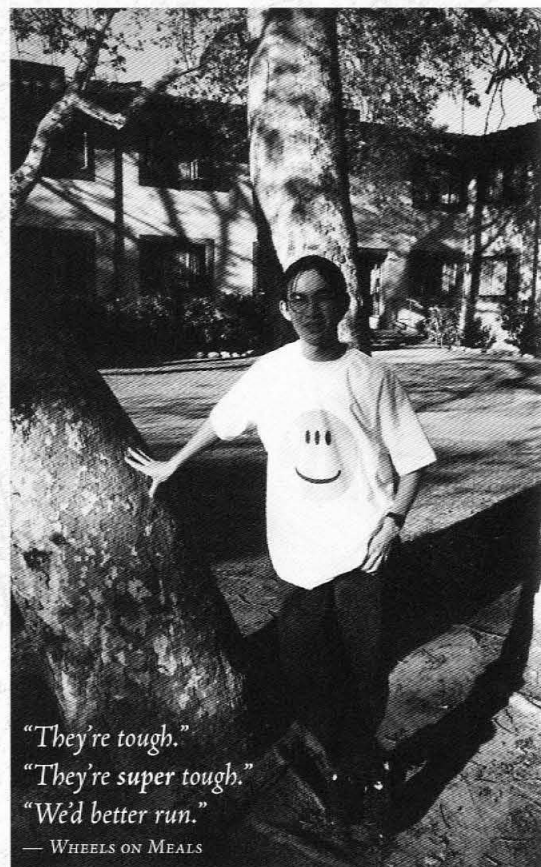
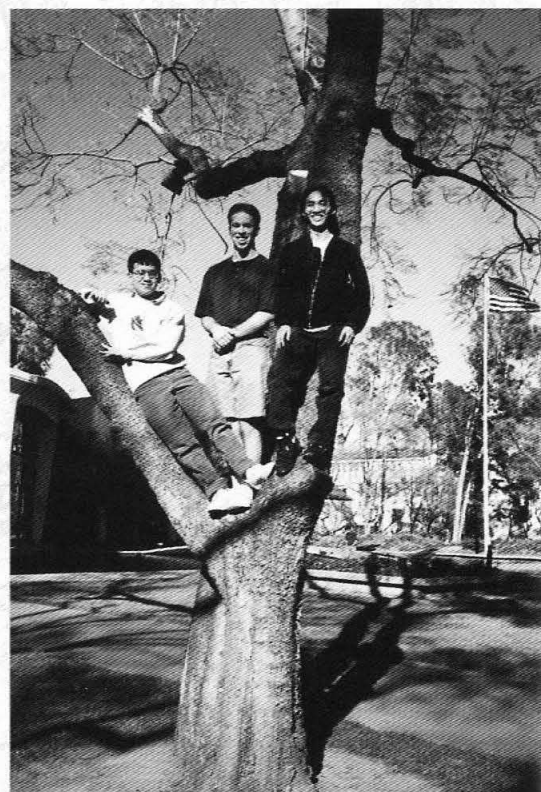
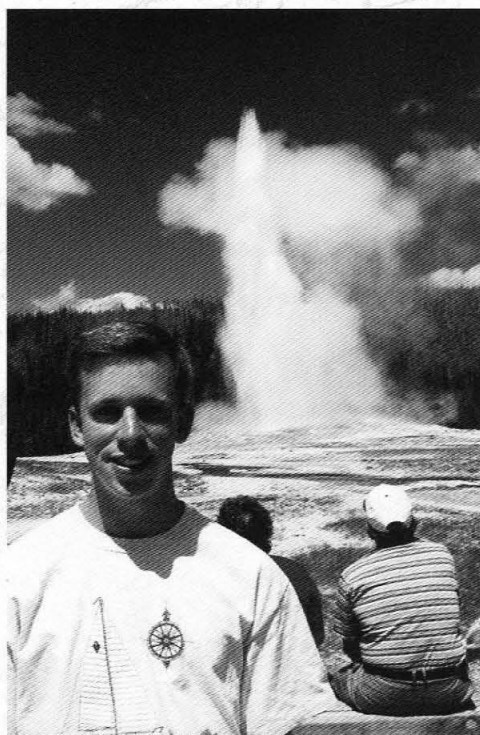
### *Eugene Chun*

COMPUTER SCIENCE  
Los Angeles, California  
Page House

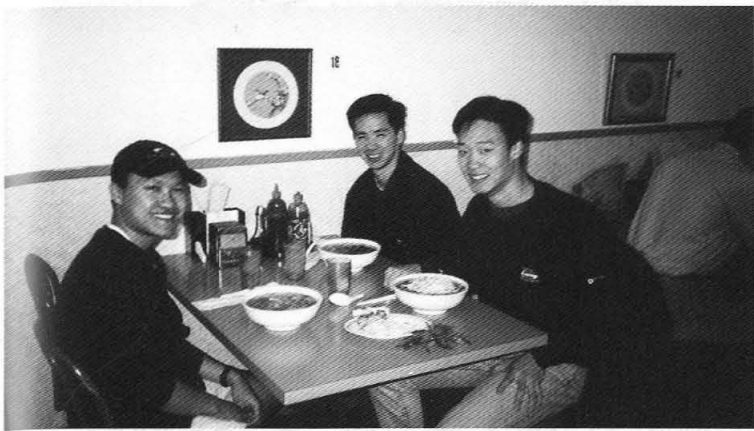
### *James Lin*

COMPUTER SCIENCE  
Cupertino, California  
Page House

*Try not. Do! Or do not.  
There is no try.  
— THE EMPIRE STRIKES BACK*







## Chinh Doan

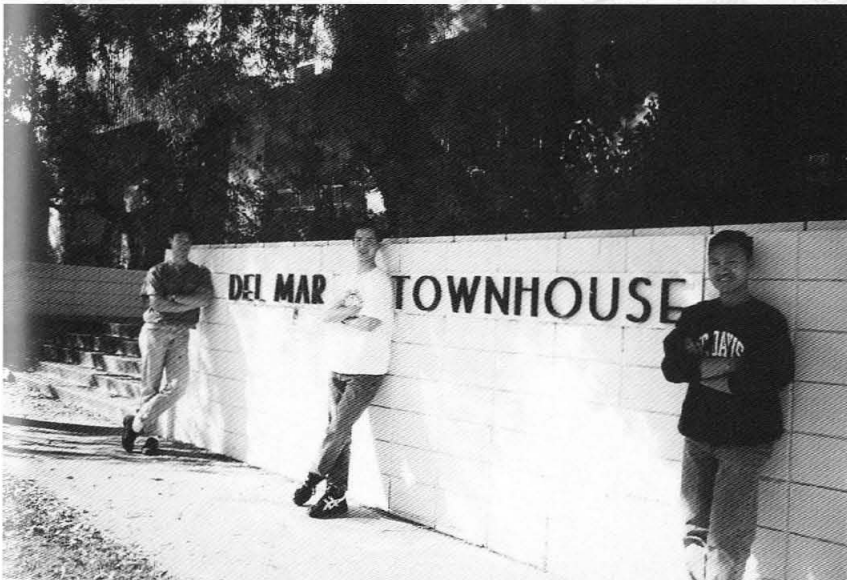
ELECTRICAL ENGINEERING  
Korbel, California  
Page House

## Jason Hong

CHEMISTRY  
Belle Mead, New Jersey  
Page House

## Gilbert Yoh

ELECTRICAL ENGINEERING  
Palos Verdes Peninsula, California  
Page House



*We charged again,  
and yet again,  
and it was now too late,  
and too far to go back,  
and I went on.*

*And the mists had all solemnly risen now,  
and the world lay spread before me.*

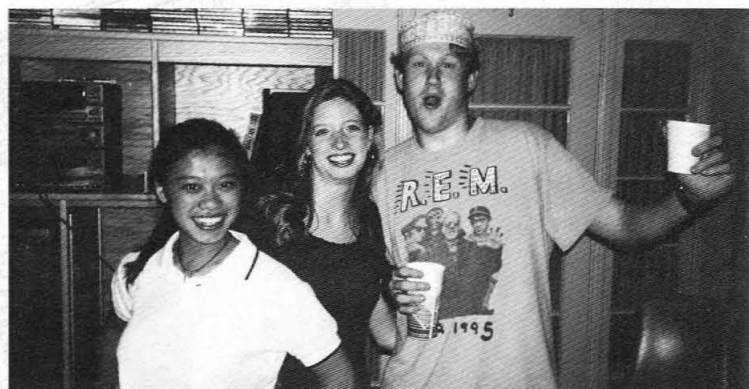
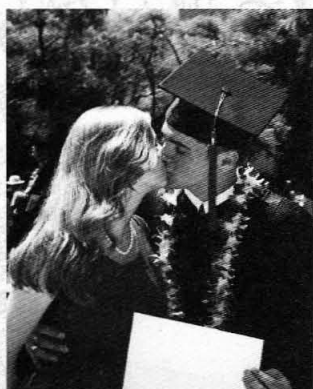
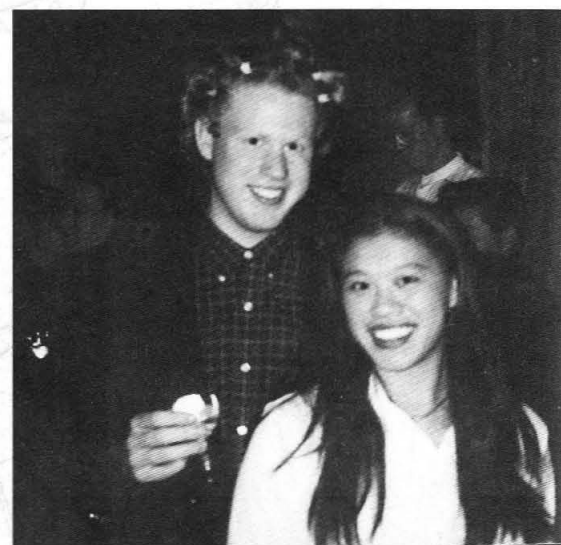
— CHARLES DICKENS





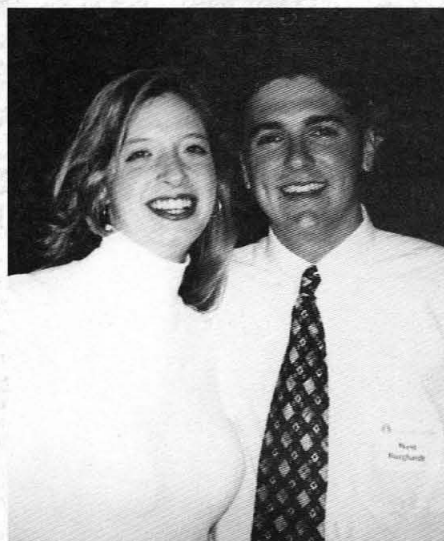
*Dave Bacon*

PHYSICS AND LITERATURE  
Yreka, California  
Ruddock House



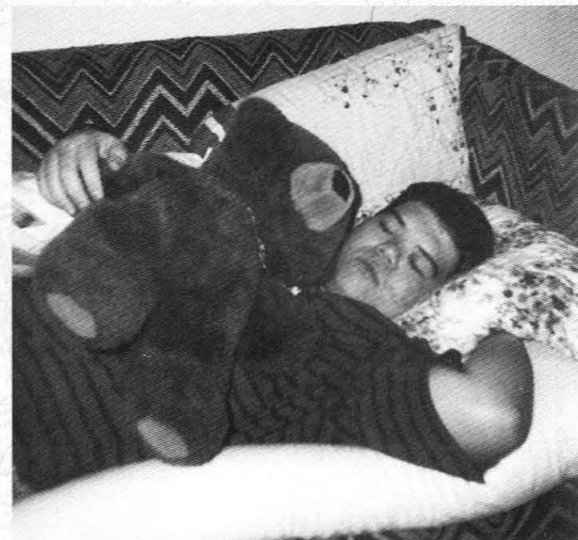
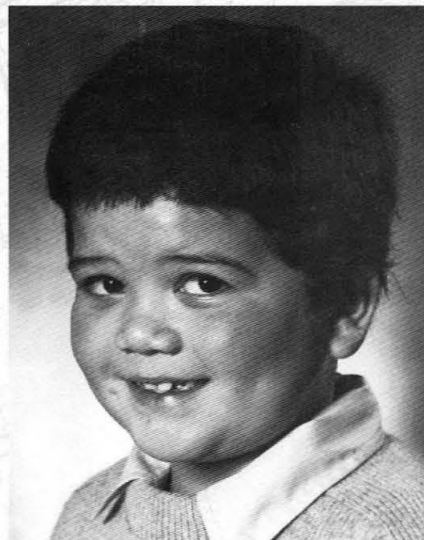
*Melissa Hampton*

CHEMICAL ENGINEERING  
Nashville, Tennessee  
Ruddock House



*Lon Christensen*

ELECTRICAL ENGINEERING  
Klamath Falls, Oregon  
Ruddock House



## Mohammed Rizvi

MATHEMATICS AND ENGINEERING & APPLIED SCIENCE  
Lahore, Pakistan  
Lloyd House

## Ben Siron

APPLIED PHYSICS  
Bloomington, Illinois  
Fleming House

Well...take me back a down to cool bright days y'all.  
...let me remember things I doan know.  
— "GREEN RIVER" — CLARENCE CLEARWATER REVIVAL



## Tony Chang

ENGINEERING & APPLIED SCIENCE  
San Marino, California  
Fleming House

## Wei Qin

ELECTRICAL ENGINEERING  
San Diego, California  
Page House

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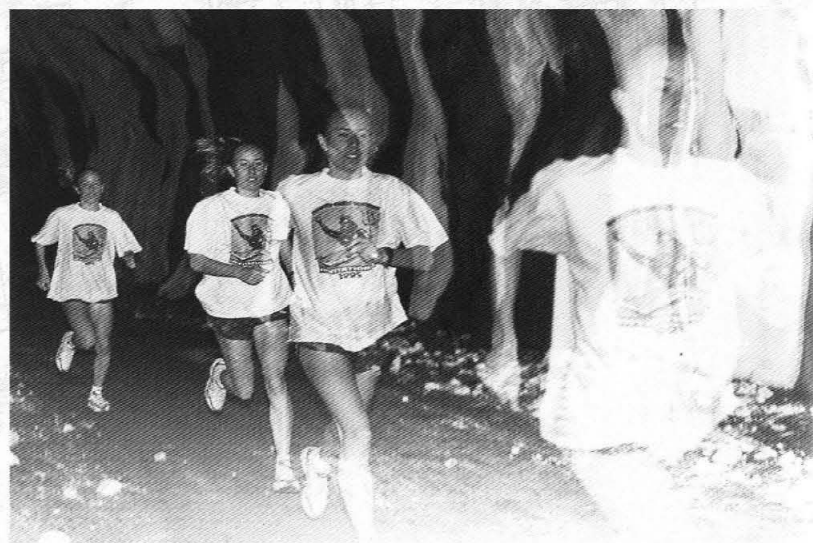
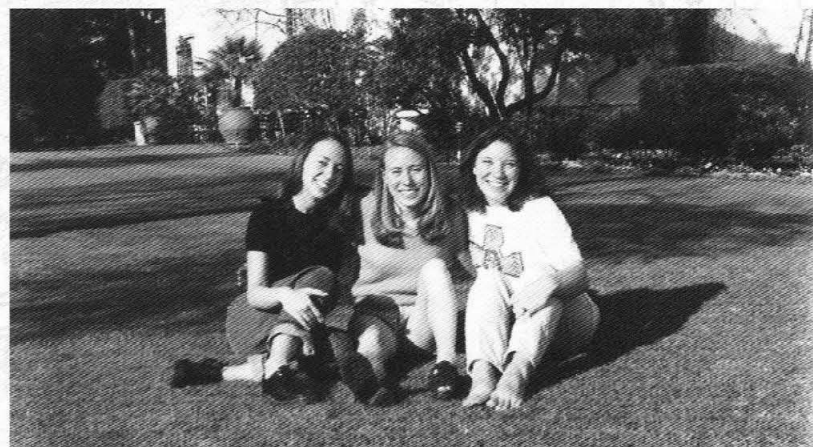
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*Amy Elizabeth Herr*

ENGINEERING & APPLIED SCIENCE  
Palm Bay, Florida  
Blacker Hovse



*Catherine Edith Boone*

PHYSICS  
Anchorage, Alaska  
Blacker Hovse

*My love is for my family.  
My gratitude, for friends.  
My happiness, for me.*

*Cailin Camille Henderson*

BIOLOGY  
Arcata, California  
Blacker Hovse





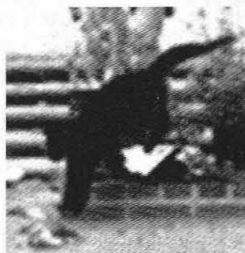


*Kanna Shimizu*

ELECTRICAL ENGINEERING  
Chibashi, Japan  
Blacker Hovse

*Margaret Belska*

PLANETARY SCIENCE  
Oakdale, California  
Blacker Hovse



*Cat: Nikita*

*Human: Lada Adamić*

PHYSICS AND ENGINEERING & APPLIED SCIENCE  
Boulder, Colorado  
Blacker Hovse

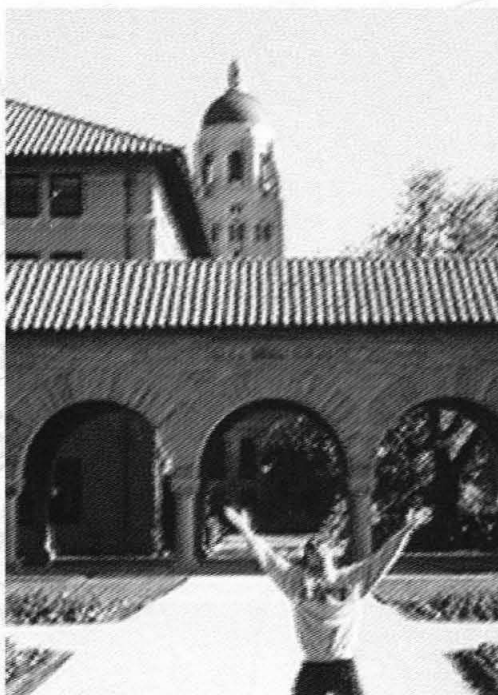


## Andrew S Huntington

CIVIL ENGINEERING  
Pleasant Hill, Oregon  
Ricketts Hovse

"A cold universe admits to no purpose nor does it pass judgement. Senseless or inspired, noble or profane, it can draw no distinction. These tasks are for you alone: to define meaning for your life and values for your soul. Compromise, yes, and band together when you can. Learn to trade the preferable for the imperative, but do not hesitate to champion your own way amidst this democracy of ideals. Blood and conflict alone, not gods nor fickle human decency, stand between all you hold dear and slavery to monstrous standards."

CAPTION: Despite substantial evidence to the contrary (right), Andrew maintains that he was never at Caltech. Choosing to suppress the traumatic experience, reality and fiction have blurred for him, and he has come to believe the lie so oft repeated: "Caltech? Not me! I was relaxing at Palo Alto the whole time!" Reduced to faking evidence to support his claim (left), he becomes quite defensive when his story is challenged.

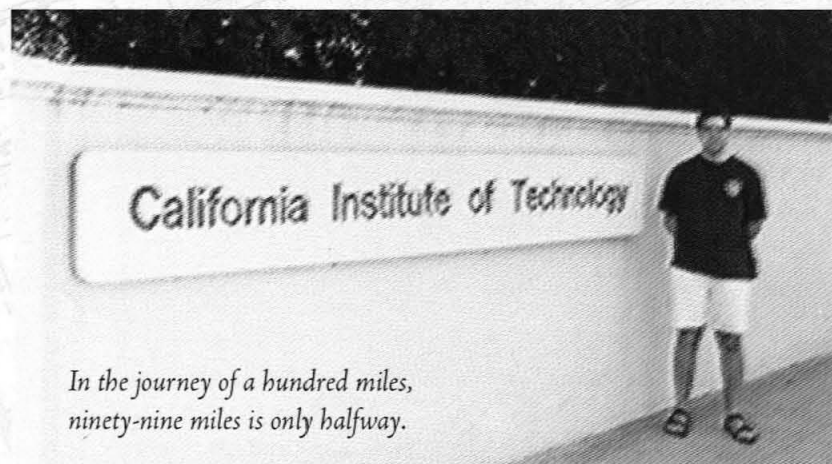


There's a land where the mountains are nameless,  
And the rivers all run God knows where;  
There are lives that are erring and aimless,  
And deaths that just hang by a hair.  
There are hardships that nobody reckons;  
There are valleys unpeopled and still;  
There's a land—oh it beckons and beckons,  
And I want to go back—and I will.

— ROBERT SERVICE

## Tad Fujioka

CIVIL ENGINEERING  
Juneau, Alaska  
Ricketts Hovse

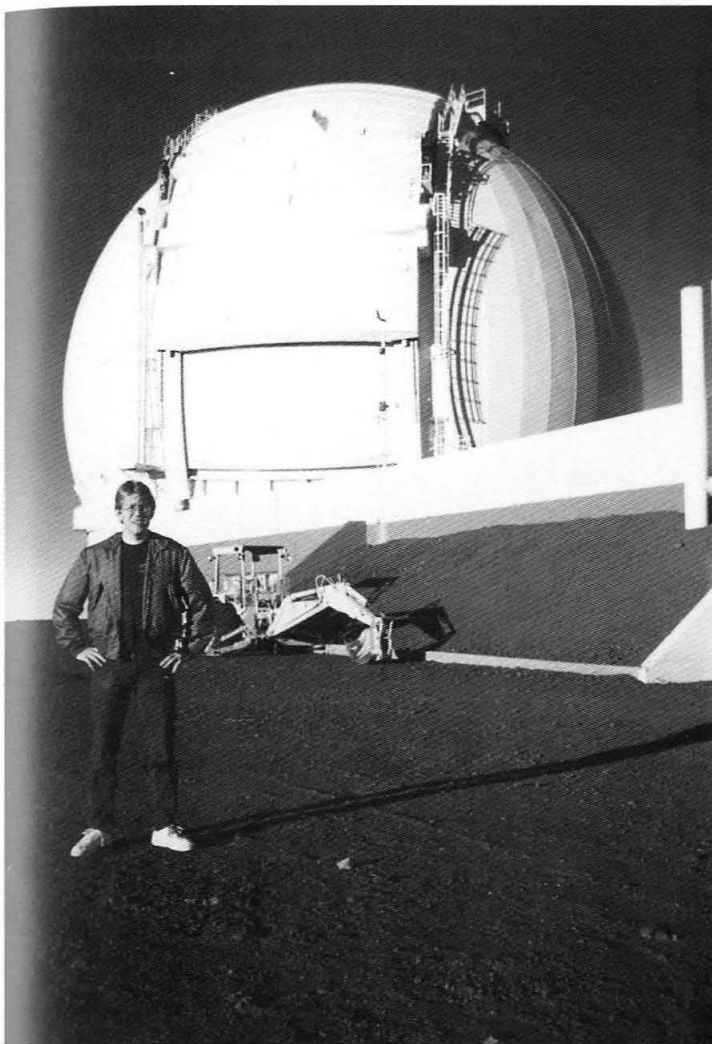


In the journey of a hundred miles,  
ninety-nine miles is only halfway.

## Neil Christopher Jones

CHEMISTRY  
Tucson, Arizona  
Ricketts Hovse





## Ben Lane

ASTRONOMY

Stockholm, Sweden

Blacker Hovse

## Lauren Mills

BIOLOGY

New York City, New York

Ricketts Hovse

*The Church says that the earth is flat,  
but I know that it is round,  
for I have seen the shadow on the moon,  
and I have more faith in a shadow than in the Church.*

— FERDINAND MAGELLAN



*There are more things  
in heaven and earth, Horatio,  
than are dreamt of  
in your philosophy.*

— WILLIAM SHAKESPEARE

*As I was walking  
among the fires of hell,  
delighted with the enjoyments  
of Genius, which to  
Angels look like torment  
and insanity...*

— WILLIAM BLAKE

*Imagination is the one weapon  
in the war against reality.*

## Philip Sutton

COMPUTER SCIENCE

San Gabriel, California

Ricketts Hovse



## Yi-Le Gloria Xu

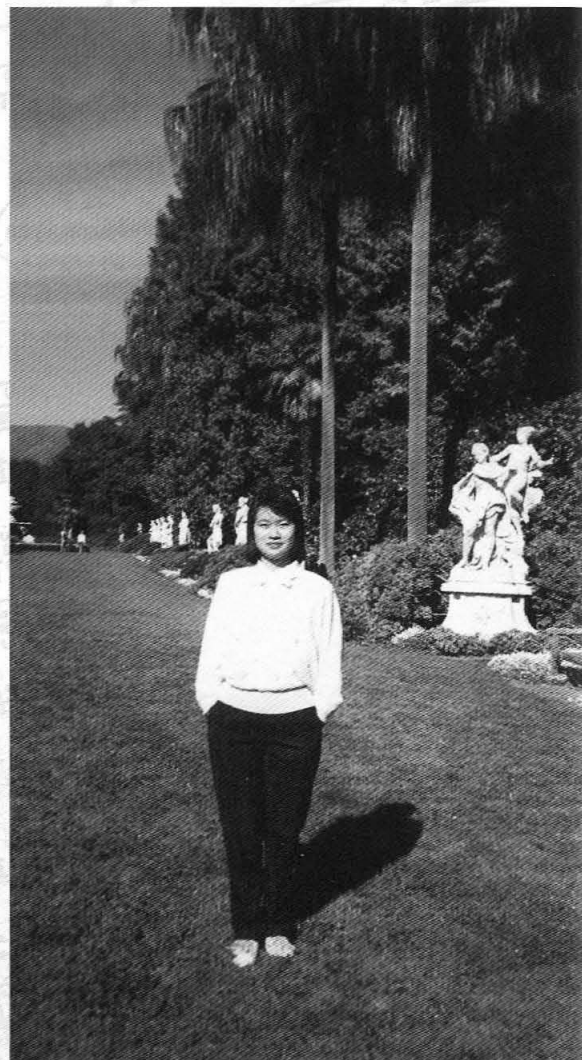
ENGINEERING & APPLIED SCIENCE  
Santa Ana, California  
Blacker Hovse

*But God demonstrates his own love  
for us in this: while we were still sinners,  
Christ died for us.*

— ROMANS 5:8

*For God did not send his son into the world  
to condemn the world,  
but to save the world through him.*

— JOHN 3:17



## Lin Z Jia

BIOLOGY  
San Gabriel, California

*To laugh often and much;  
To win the respect of intelligent people  
and affection of children;  
To earn the appreciation of honest critics  
and endure the betrayal of false friends;  
To appreciate beauty,  
to find the best in others;  
To leave the world a bit better,  
whether by healthy child,  
a garden patch  
or a redeemed social condition;  
To know even one life has breathed easier  
because you have lived.  
This is to have succeeded.*

— RALPH WALDO EMERSON



## Mina Leung

ENGINEERING  
& APPLIED SCIENCE  
Chicago, Illinois  
Lloyd House

*She'll come back as fire;  
to burn all the liars,  
and leave a blanket of ashes  
on the ground.*

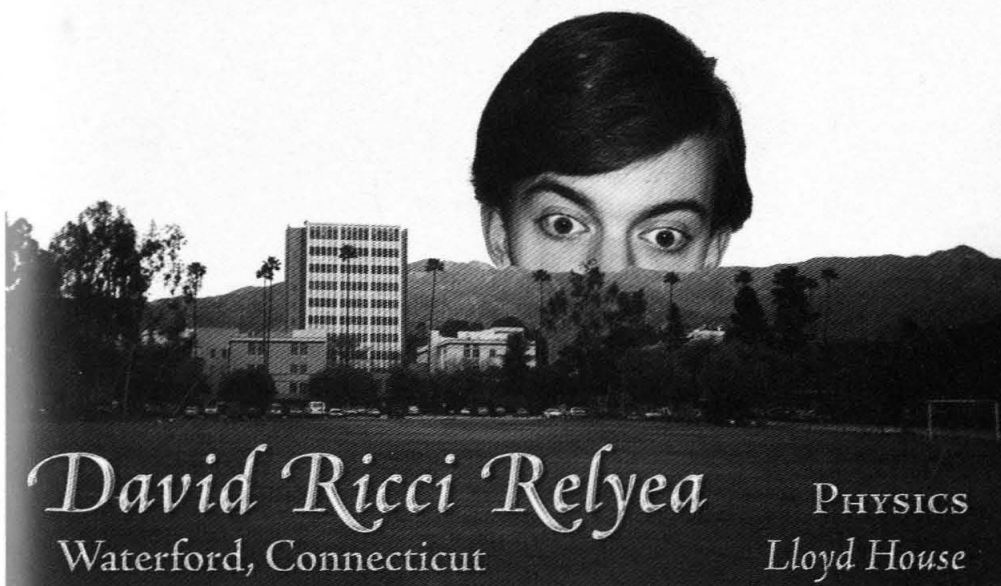
— KURT COBAIN





*Ivan the Cat  
& Aaron James Passey*

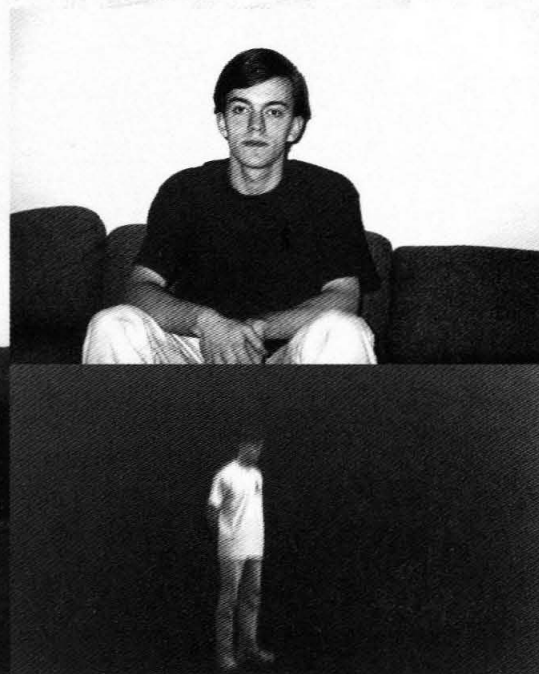
ELECTRICAL ENGINEERING,  
COMPUTER SCIENCE  
AND COOL STUFF  
Bothell, Washington  
Dabney Hovse



*David Ricci Relyea*

Waterford, Connecticut

PHYSICS  
Lloyd House



*Lena Petrović*

ENGINEERING & APPLIED SCIENCE  
Niš, Yugoslavia  
Lloyd House

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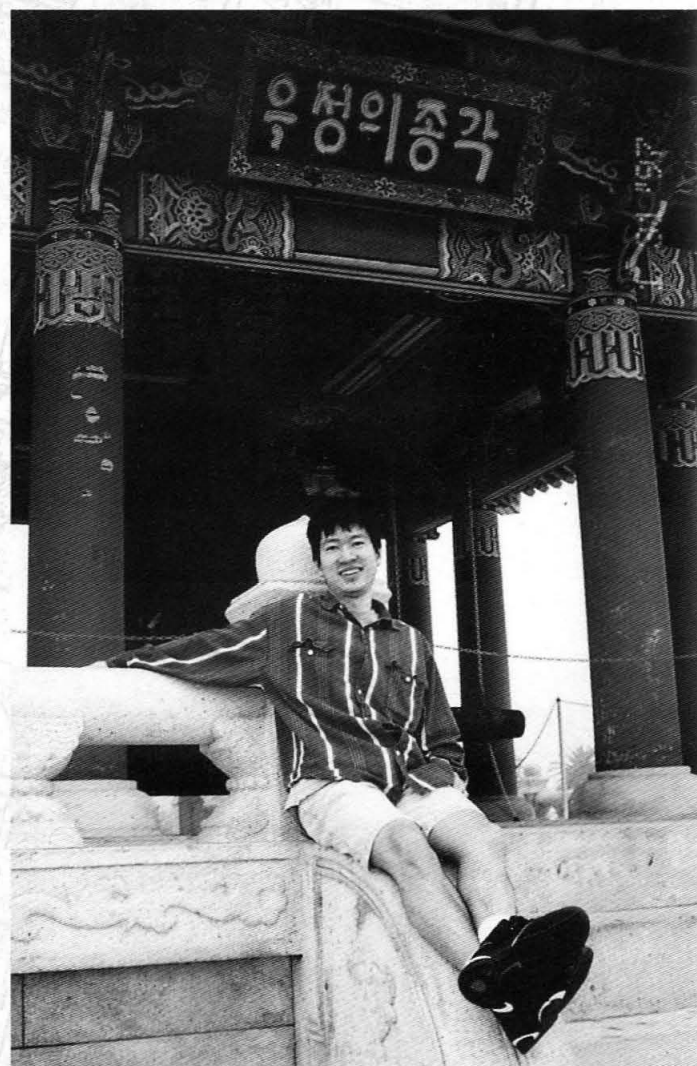
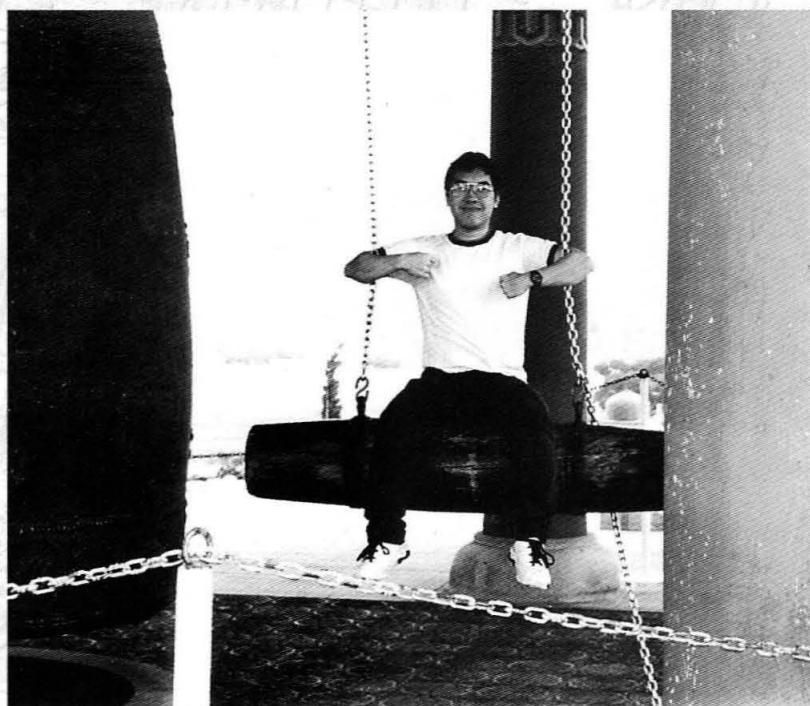
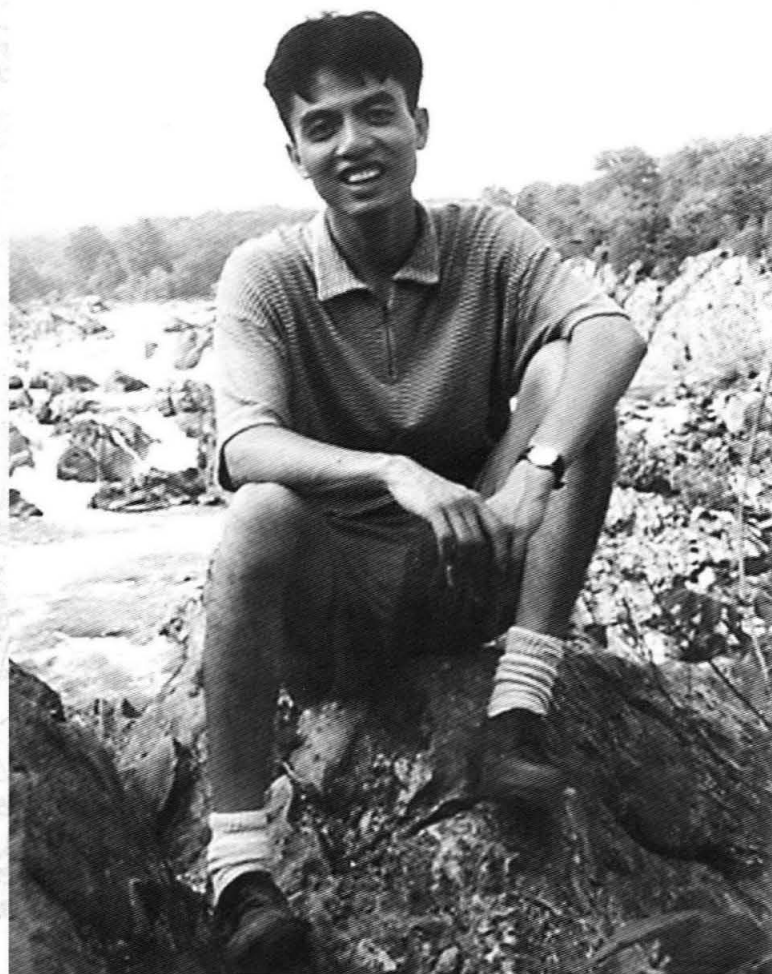


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## Nathan Lee

ENVIRONMENTAL ENGINEERING  
El Monte, California  
Ricketts Hovse

*Carpe diem.*



## Wai Kwan

CHEMISTRY  
AND ENVIRONMENTAL ENGINEERING  
Flushing, New York  
Fleming Hovse

*Joudan ja nai yo.*

## Simon Yu

ENGINEERING  
& APPLIED SCIENCE  
Sunnyvale, California  
Ricketts Hovse

*The art of war  
is to subdue your enemy without fighting.*  
— SUN TZU



## Larry Jenn-Yu Chen

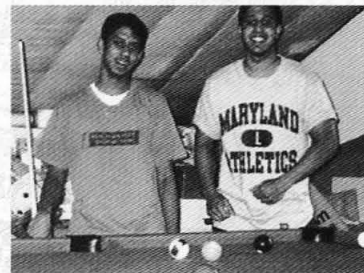
CHEMICAL ENGINEERING  
Cerritos, California  
Page House

*And the Spirit and the bride say, Come!*  
— REVELATIONS 22:17A

*So then is it not of him who wills, nor of him who runs,  
but of God who shows mercy.*  
— ROMANS 9:16

*But what things were gains to me, these I have counted as  
a loss on account of Christ. But moreover I also count all  
things to be loss on account of the excellency of the  
knowledge of Jesus Christ my Lord...that I may gain Christ  
and be found in Him...to know Him and the power of  
His resurrection and the fellowship of His sufferings, being  
conformed to His death...Not that I have already obtained  
or am already perfected, but I pursue, if even I may lay  
hold of that for which I also have been laid hold of by  
Christ Jesus...Forgetting the things which are behind and  
stretching forward to the things which are before, I pursue  
toward the goal for the prize to which God in Christ Jesus  
has called me upward.*

— PHILIPPIANS 3:7-14



## Vivek Ray

APPLIED PHYSICS  
Flushing, New York  
Page House

## John Langford

PHYSICS  
Lebanon, Oregon  
Lloyd House



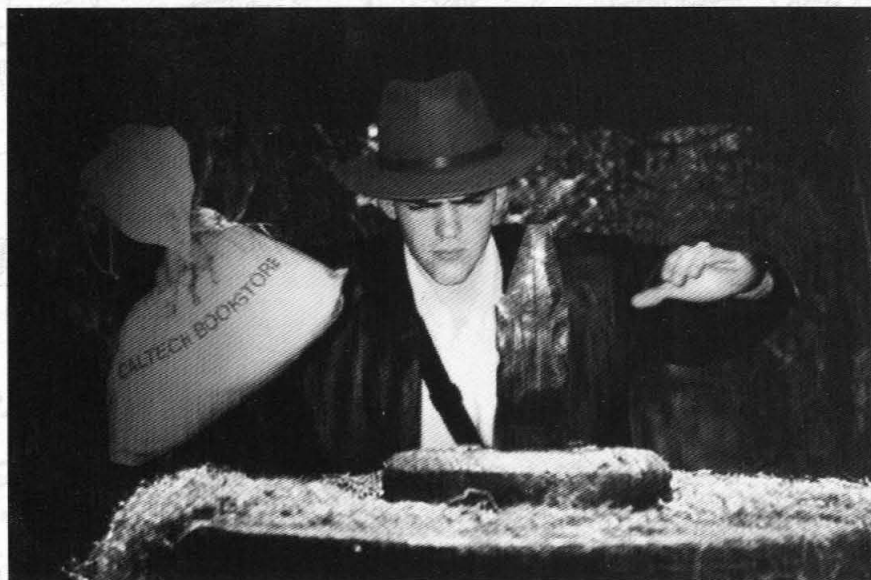
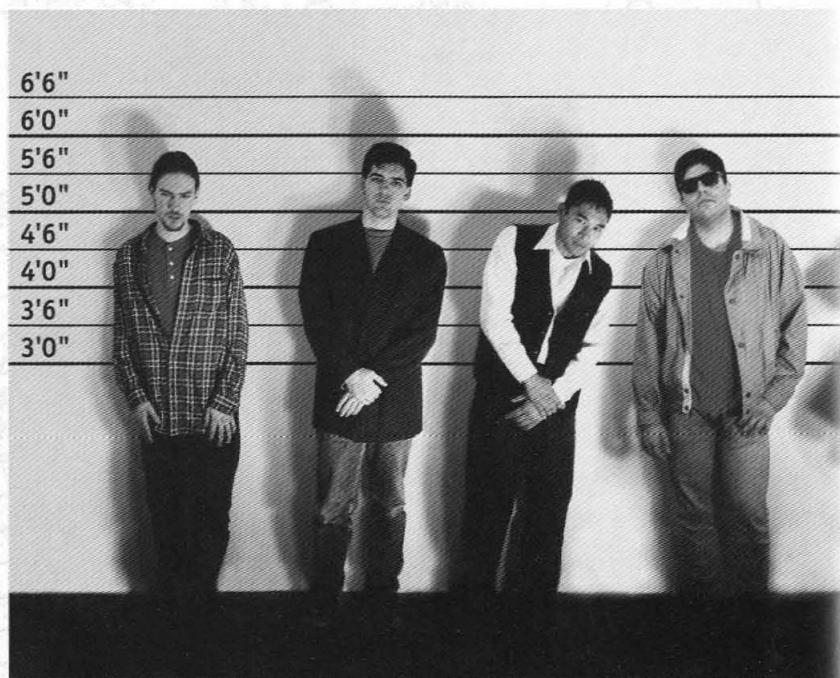
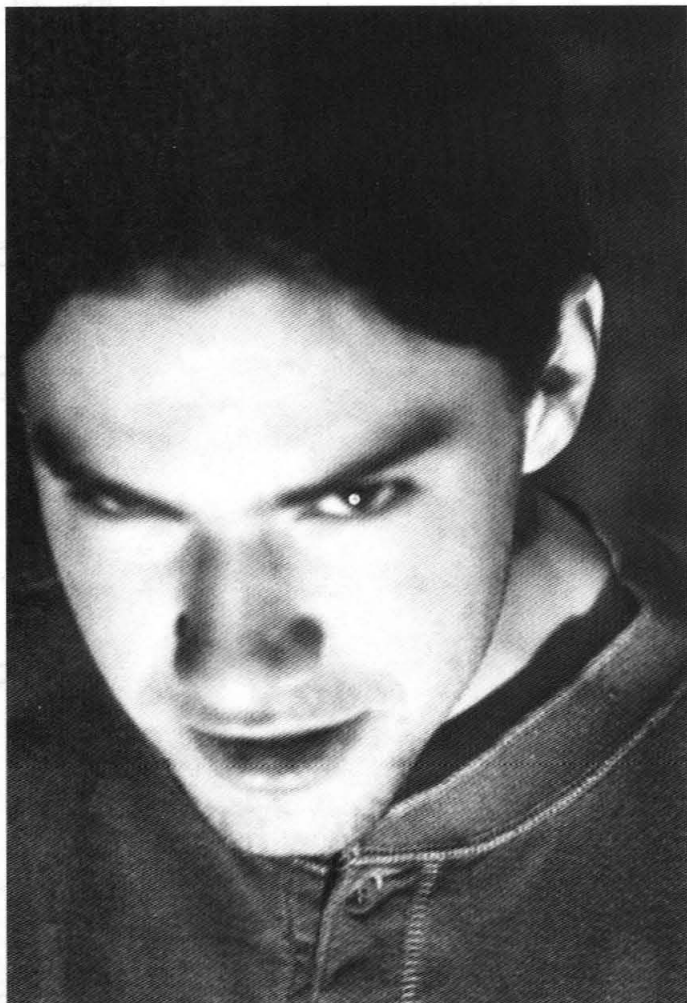
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## Tim Günter

PHYSICS  
Clayton, Missouri  
Lloyd House

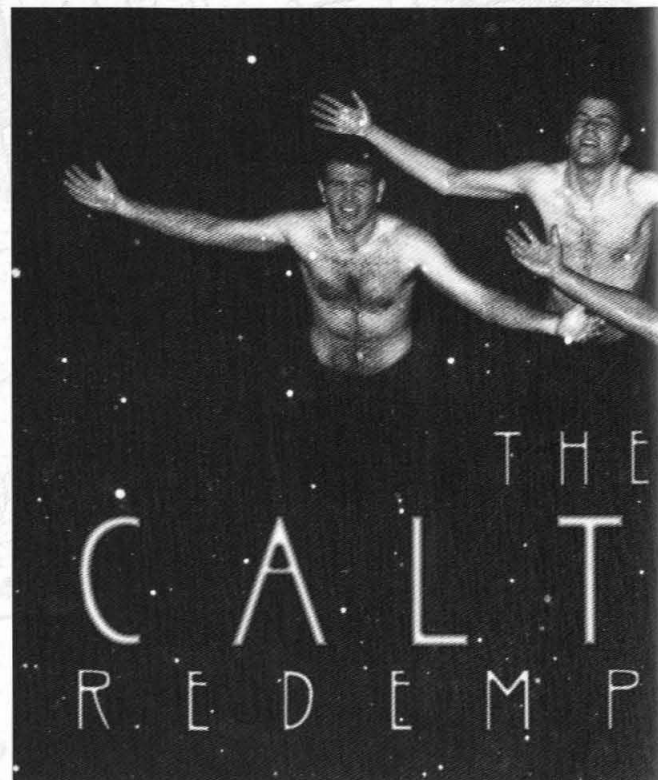
*Much has been written, but little has been said.*

— FROM THE BOOK OF DOGMA 5:13



## Mike Tice

ENVIRONMENTAL ENGINEERING  
Elkhart, Indiana  
Lloyd House



# Champpotting



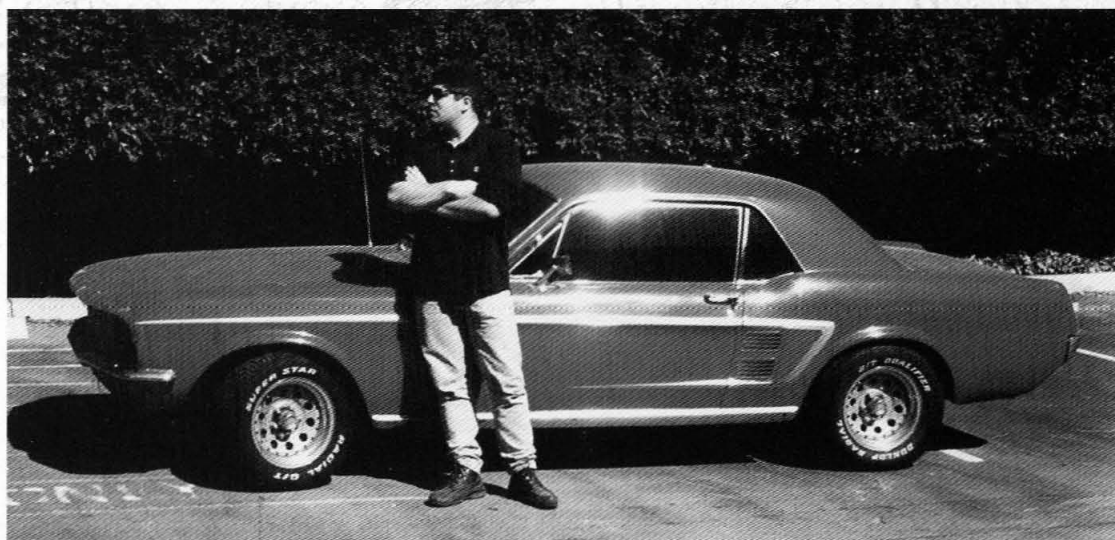
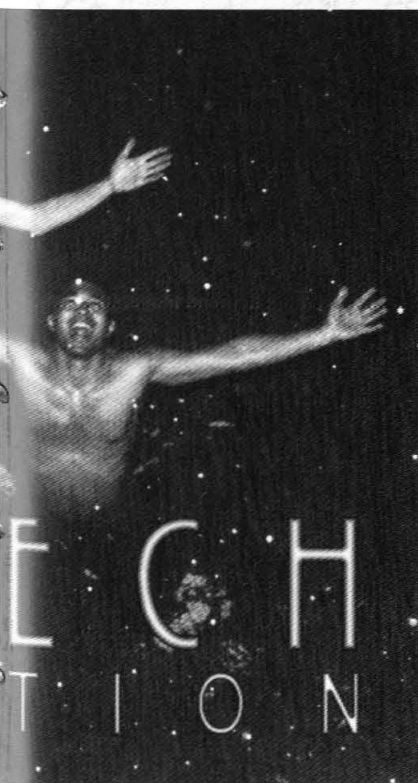
**Ken Kharma**

CHEMICAL ENGINEERING  
Woodbury, Connecticut  
Lloyd House

**Steve Bennett**

BIOLOGY AND CHEMISTRY  
Las Cruces, New Mexico  
Lloyd House

*I wait the coming of highborn heroes.  
Glad now is my heart.*



**Paul Rubio**

ENGINEERING & APPLIED SCIENCE  
El Paso, Texas  
Lloyd House

**Carlos Maldonado**

CHEMICAL ENGINEERING  
El Paso, Texas  
Lloyd House



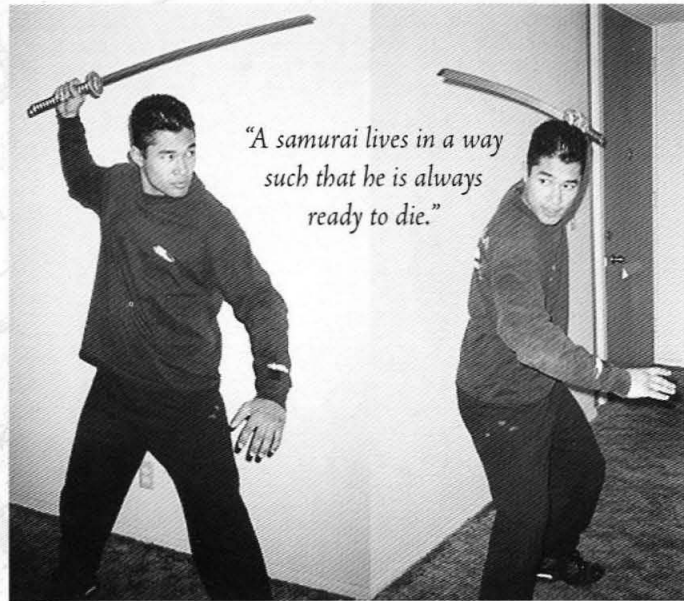
## Karl Thulin

SOCIAL SCIENCE  
East Sandwich, Massachusetts  
Lloyd House

*If there is a God, and sometimes I believe  
there is one, I'm sure He says, go on, my boy.*

*I don't know that I can help you,  
but we wouldn't want all those people  
to tell you what to do.*

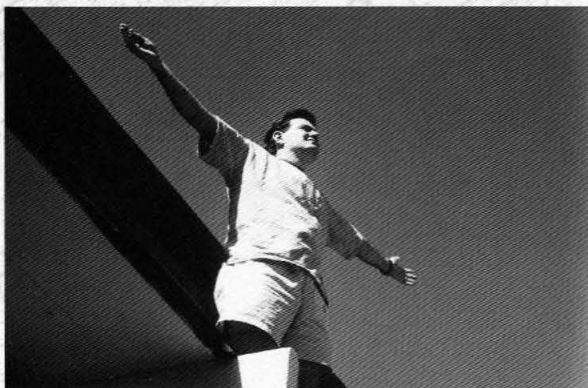
— "THE DEER PARK" — NORMAN MAILER



*"A samurai lives in a way  
such that he is always  
ready to die."*

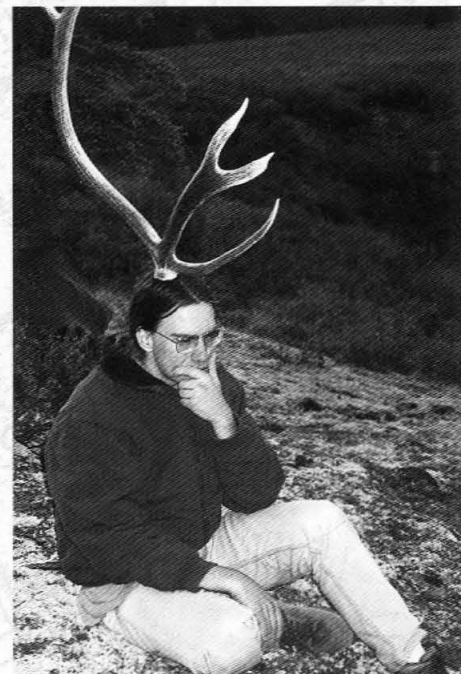
## Alain Inugai

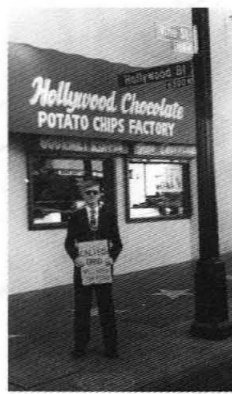
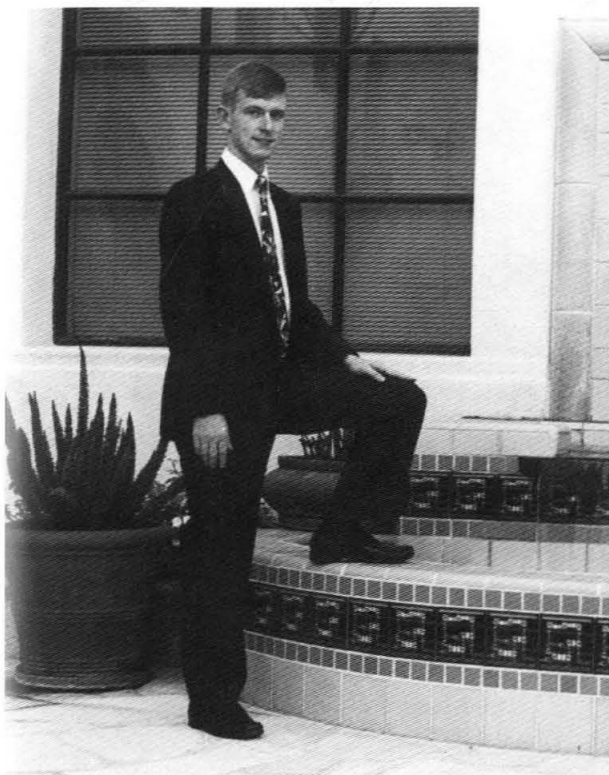
MECHANICAL ENGINEERING  
Duncanville, Texas  
Lloyd House



## Samuel Bauknight

MECHANICAL ENGINEERING  
Olympia, Washington  
Lloyd House

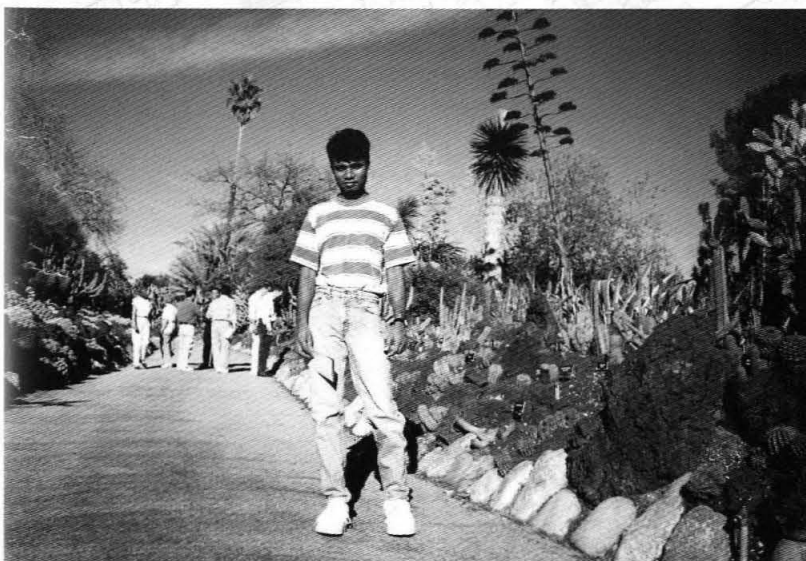
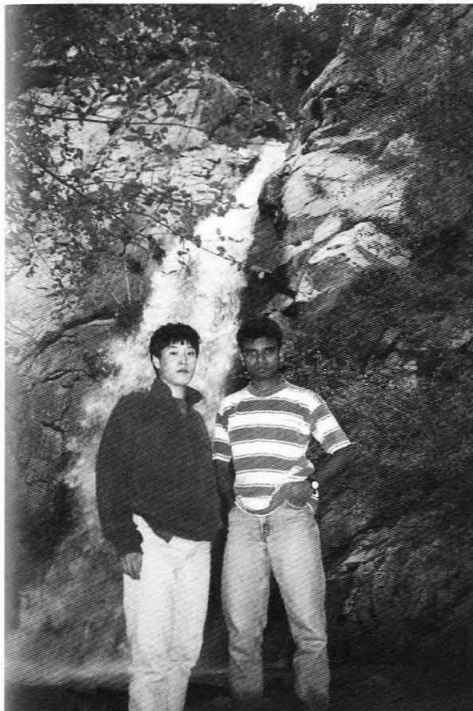
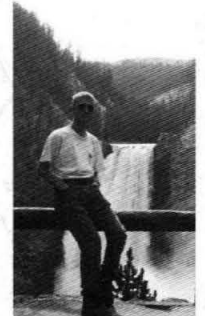




## *Carter M Moursund*

ELECTRICAL ENGINEERING  
San Antonio, Texas  
Ruddock House

*Change is good.*



## *Eugene Ha*

MATHEMATICS  
Toronto, Ontario  
Ruddock House

## *N W G M Muditha Kanchana*

ELECTRICAL ENGINEERING  
Panadura, Sri Lanka  
Ruddock House

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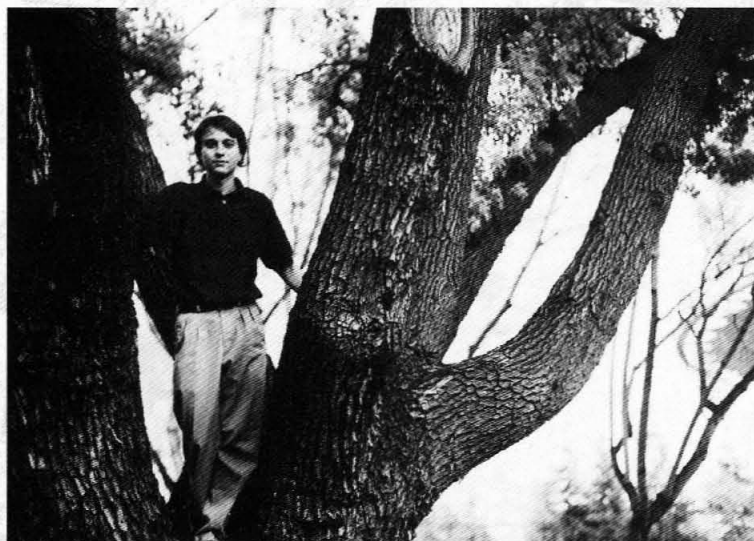
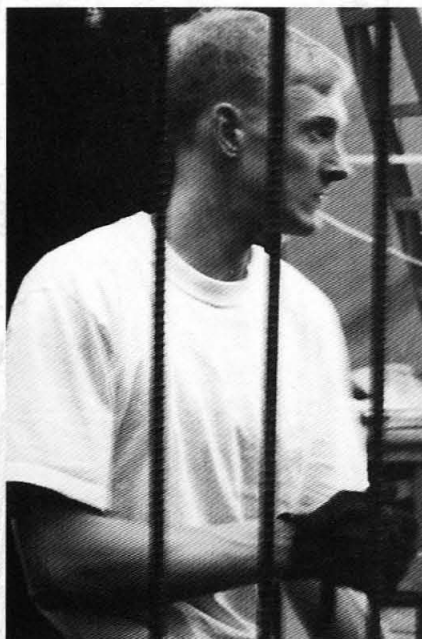
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*Christopher Walker*

APPLIED PHYSICS  
Palo Alto, California  
Dabney Hovse

*Ronald Stowell*

PHYSICS AND APPLIED MATHEMATICS  
Englewood, Colorado  
Ricketts Hovse

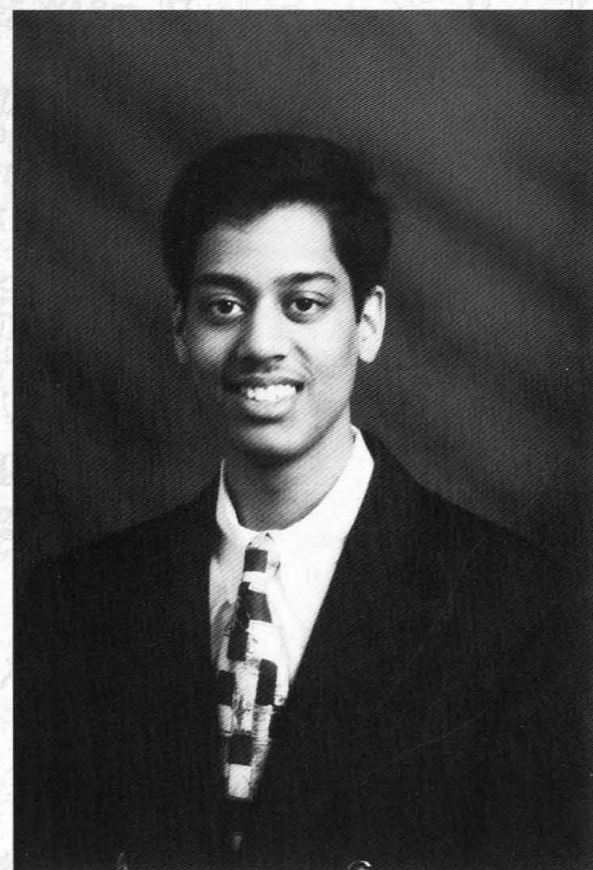


Step by step.  
I can't see any other way  
of accomplishing anything.  
— MICHAEL JORDAN

Success has always been easy to measure.  
It is the distance between one's origins  
and one's final achievements...  
— MICHAEL KORDA

*Saurabh Saha*

BIOLOGY  
Skokie, Illinois  
Page House



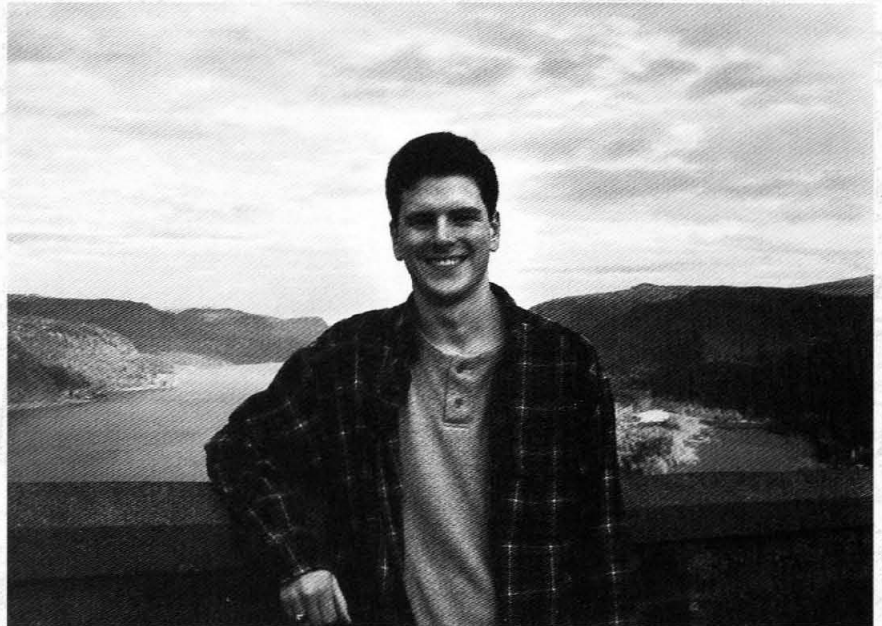


## *Micah Barclay*

ELECTRICAL ENGINEERING  
Davison, Michigan  
Lloyd House

## *Brian Winters*

COMPUTER SCIENCE  
Portland, Oregon  
Lloyd House

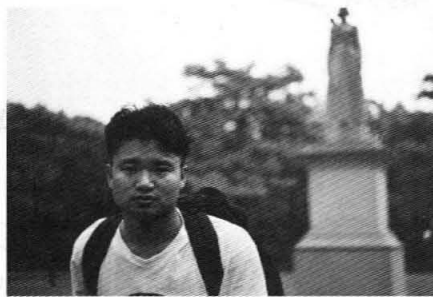


## *Rachel Christine Weathers*

MECHANICAL ENGINEERING  
AND SCIENCE, ETHICS & SOCIETY  
Las Vegas, Nevada  
Lloyd House

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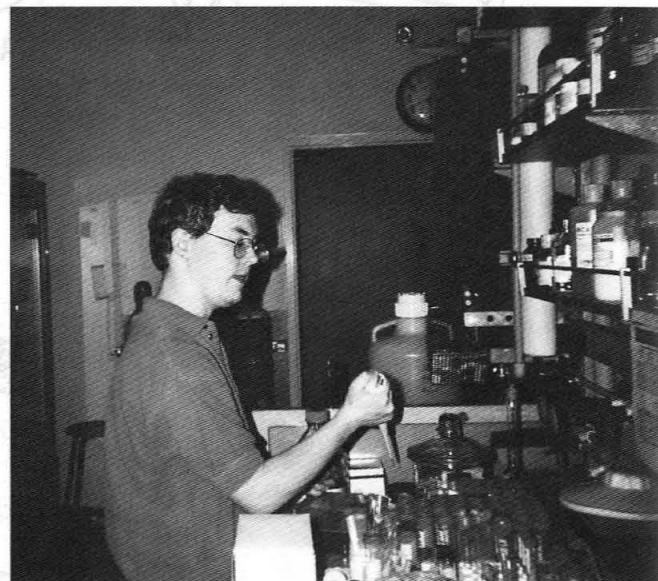
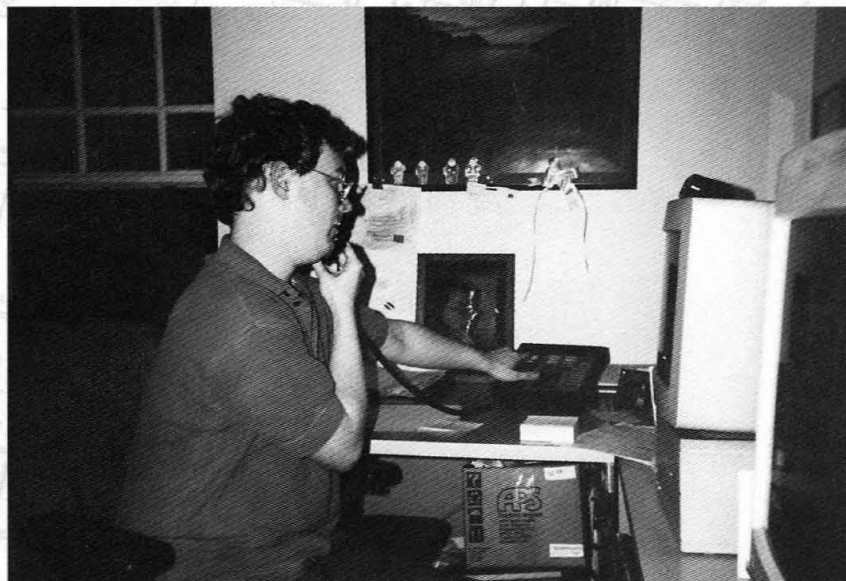
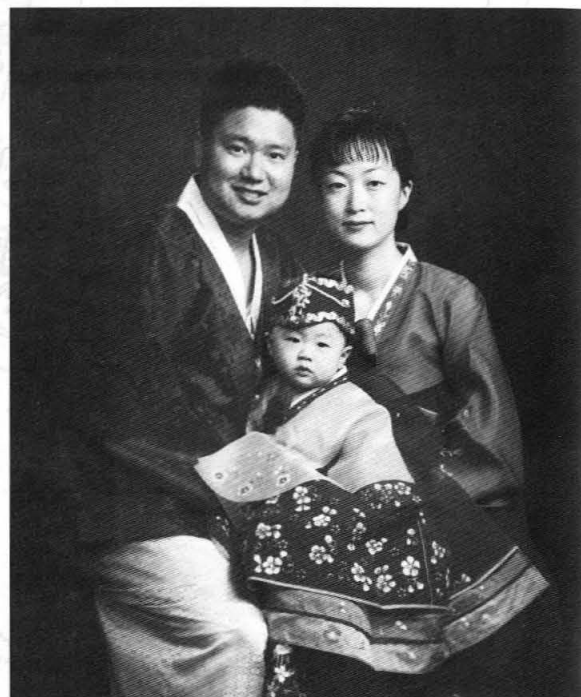
**Oon-Gil Paik**

ENGINEERING & APPLIED SCIENCE  
Seoul, South Korea  
Page House



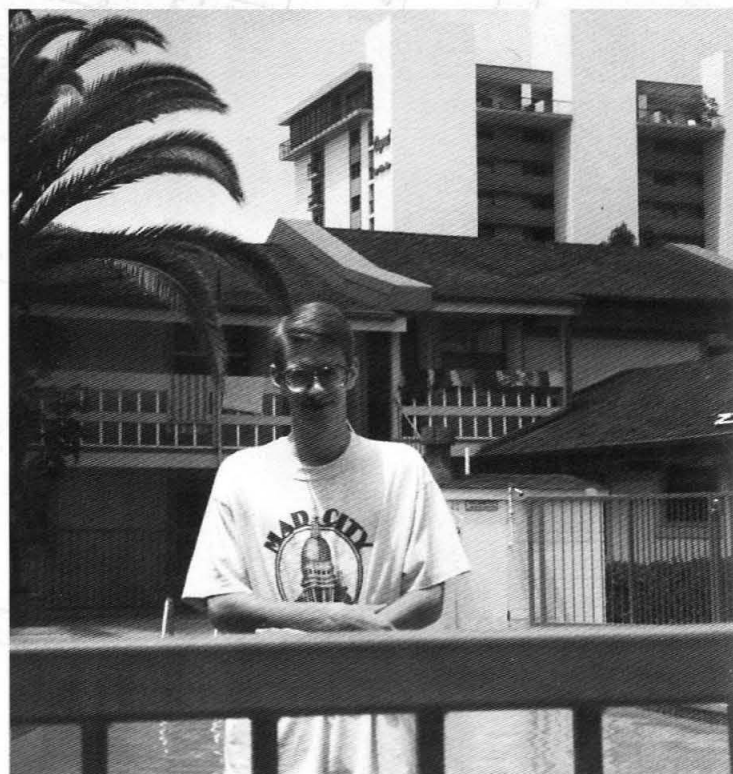
**Brian Jenkins**

CHEMISTRY  
Malvern, Arkansas  
Fleming Hovse



**Travis Maron**

MATHEMATICS  
Madison, Wisconsin  
Dabney Hovse





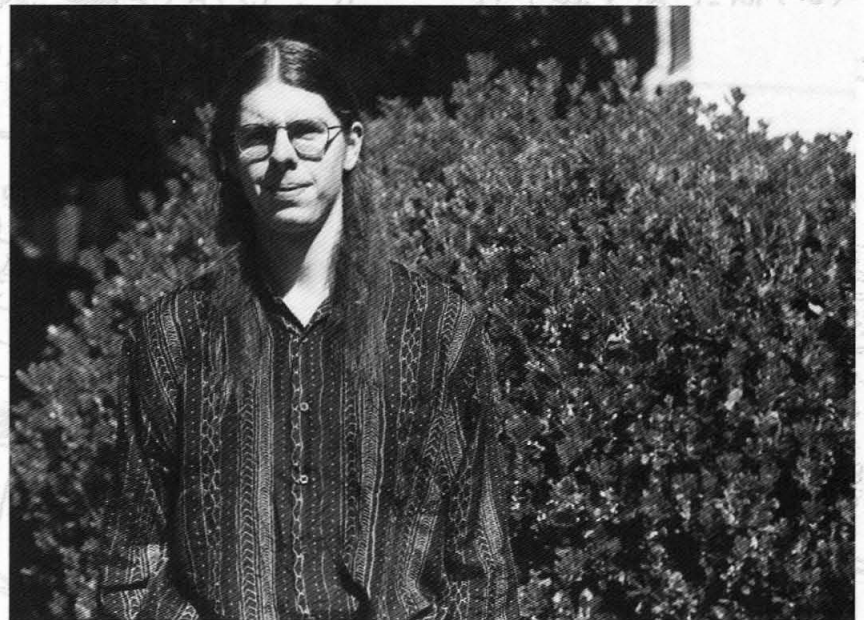
## Jack Langsdorf

ELECTRICAL ENGINEERING  
AND APPLIED MATHEMATICS  
Watertown, Connecticut  
Leawood, Kansas

*That's it. I'm taking my clutter somewhere else.*

## Huy Le

COMPUTER SCIENCE  
Pasadena, California



## Seth LaForge

COMPUTER SCIENCE,  
MECHANICAL ENGINEERING  
AND ELECTRICAL ENGINEERING  
Eureka, California  
Dabney Hovse

## Priša Charuworn

BIOLOGY  
Riverside, California  
Lloyd House

*Afooted and light-hearted I take to the open road,  
Healthy, free, the world before me,  
The long brown path before me leading wherever I choose.*

— WALT WHITMAN





# SIX LOSERS

• and one really cool person •



*Samantha Foster*

CIVIL ENGINEERING  
Burbank, California  
Blacker Hovse



*William Penn*

ASTRONOMY  
Hollidaysburg, Pennsylvania  
Blacker Hovse



*Bradey Honsinger*

COMPUTER SCIENCE  
Wenatchee, Washington  
Blacker Hovse



*Jason Heiss*

BIOLOGY  
Eugene, Oregon  
Blacker Hovse



*Zane Crawford*

ENGINEERING  
& APPLIED SCIENCE  
Sanger, California  
Blacker Hovse



*Noah Malmstadt*

CHEMICAL ENGINEERING  
Greendale, Wisconsin  
Blacker Hovse

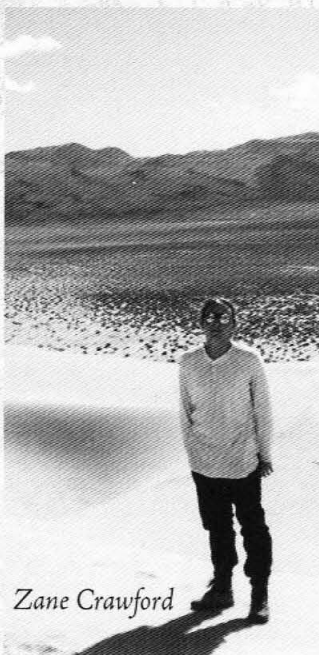


*Vandana Desai*

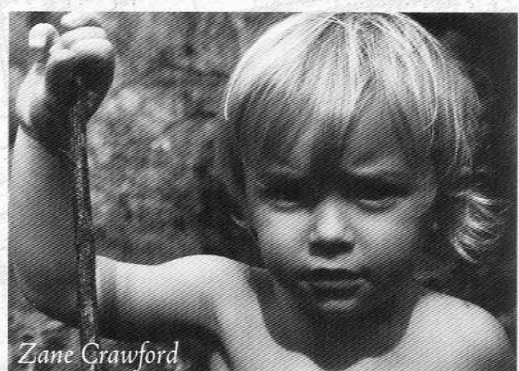
ASTRONOMY  
Mount Prospect, Illinois  
Blacker Hovse



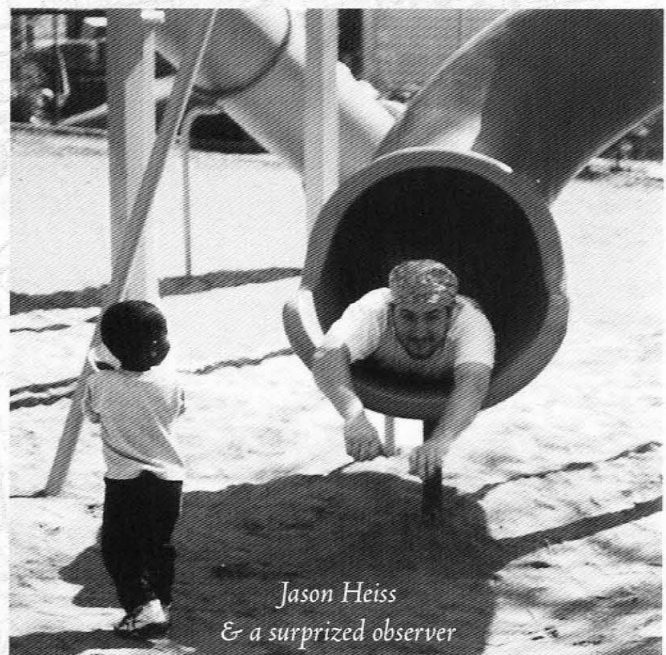
*Noah Malmstadt*



*Zane Crawford*



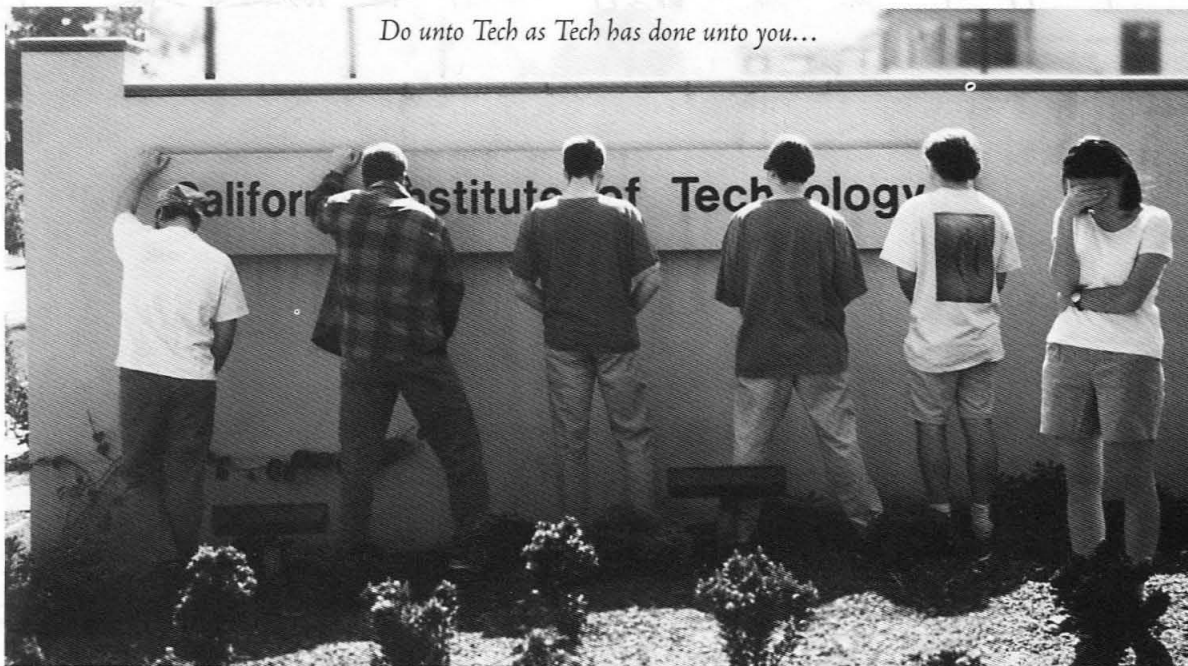
*Zane Crawford*



*Jason Heiss  
& a surprised observer*



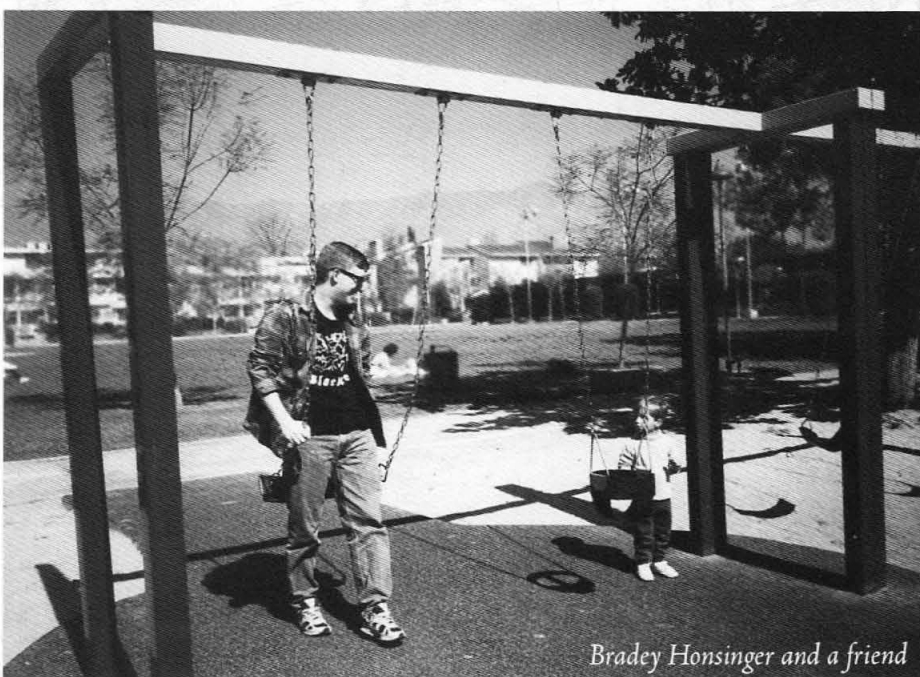
Do unto Tech as Tech has done unto you...



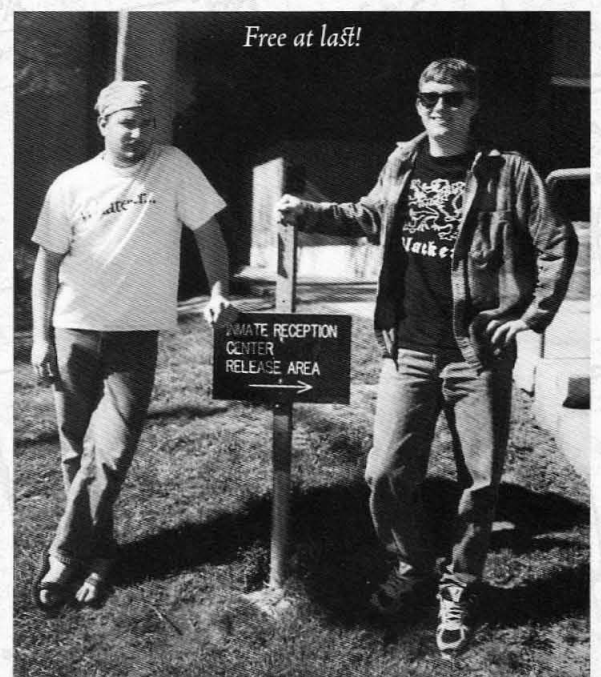
William Penn



Samantha Foster



Bradey Honsinger and a friend





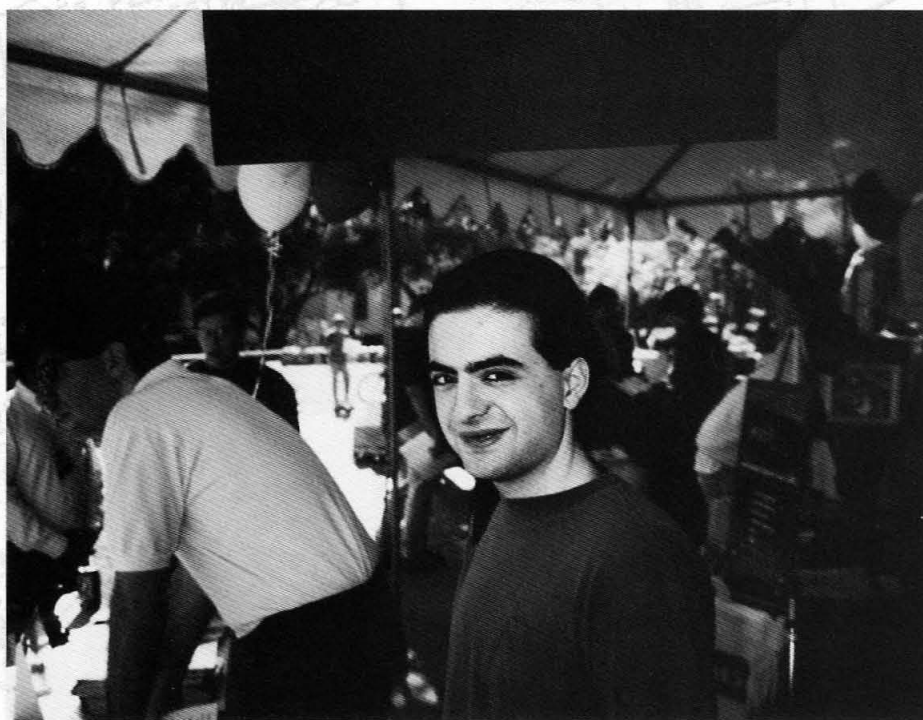
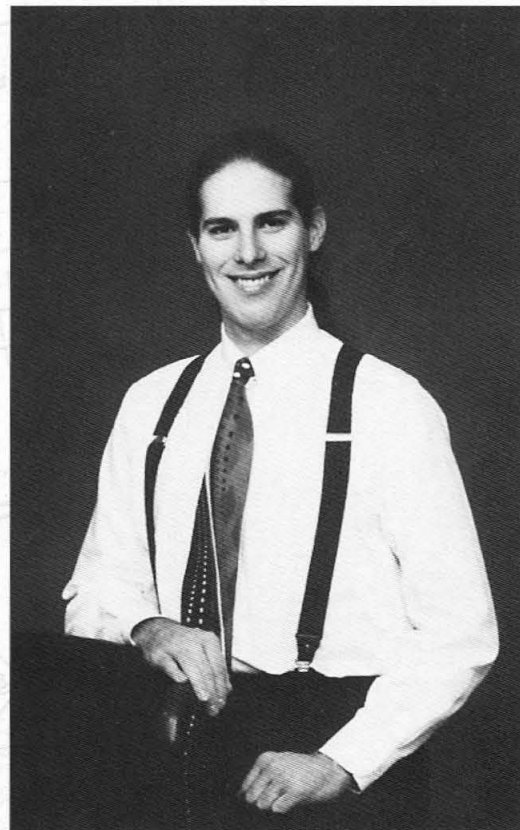
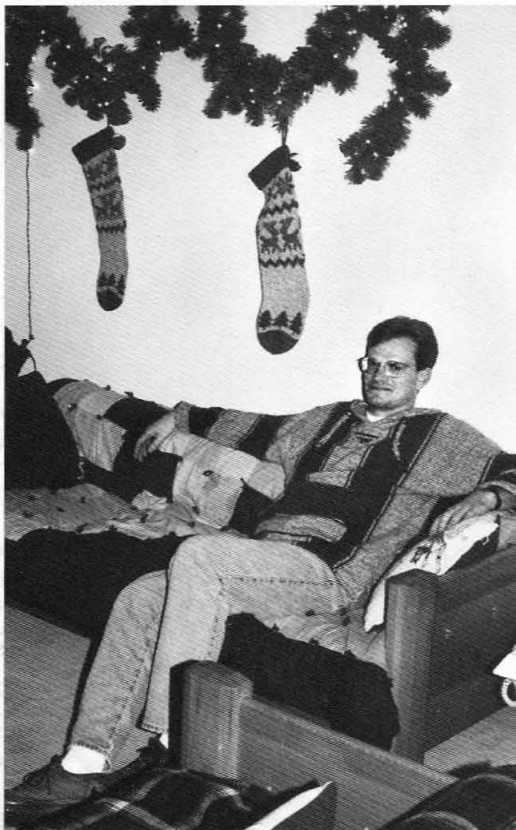
*Ted Laurence'*

PHYSICS  
Thousand Oaks, California  
Fleming Hovse

*Aloysius A Wild III*

PHYSICS AND MATHEMATICS  
Naperville, Illinois  
Dabney Hovse

*Perhaps in this neglected spot is laid  
Some heart once pregnant with celestial fire;  
Hands that the rod of empire might have sway'd,  
Or waked to ecstasy the living lyre.*

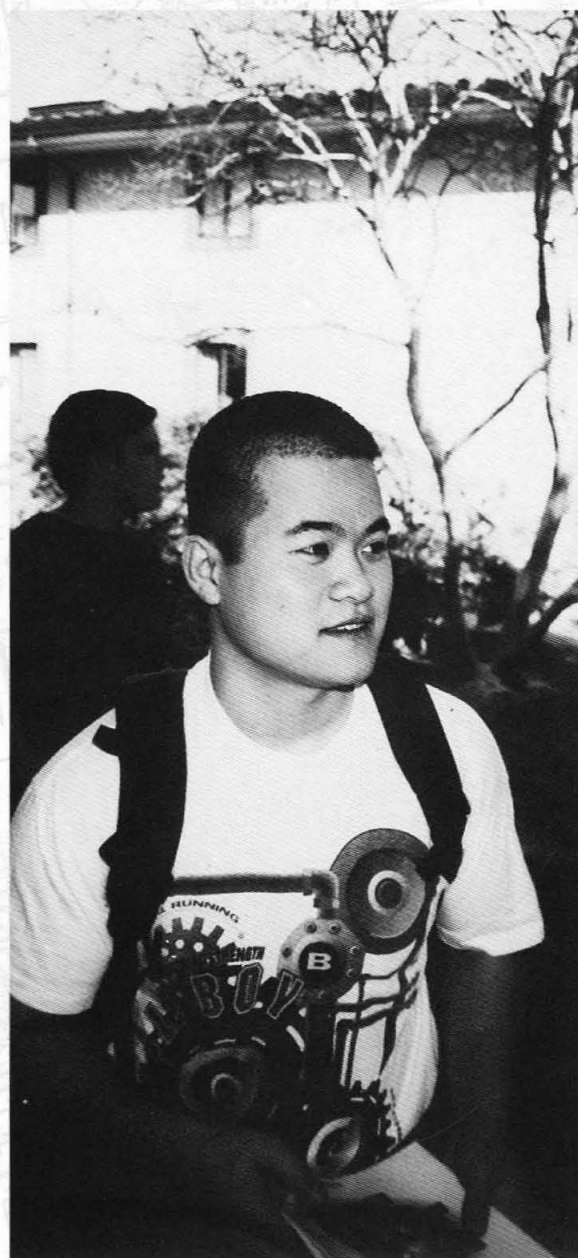


*Nelson Escobar*

ENGINEERING & APPLIED SCIENCE  
San Jose, California  
Lloyd House

*Keith Wong*

PHYSICS  
San Jose, California  
Fleming Hovse





## Priyamvada Rai

BIOLOGY

New Delhi, India

*All the world seems in tune'  
On a Spring afternoon  
When we're poisoning pigeons in the park  
Every Sunday you'll see'  
My sweetheart and me'  
As we poison pigeons in the park.*



## Sanjiv Man Shrestha

ENGINEERING & APPLIED SCIENCE

Katmandu, Nepal

Lloyd House

*Do something you like'  
and you will never have to work  
a day in your life.*



## Joseph Trela

PLANETARY SCIENCE

San Jose, California

Dabney Hovse

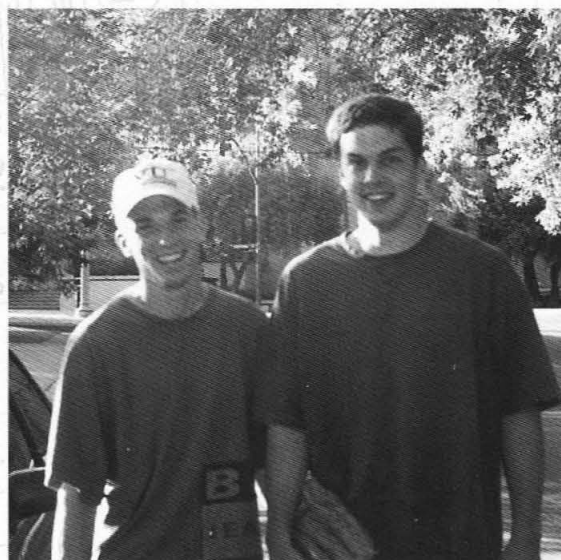
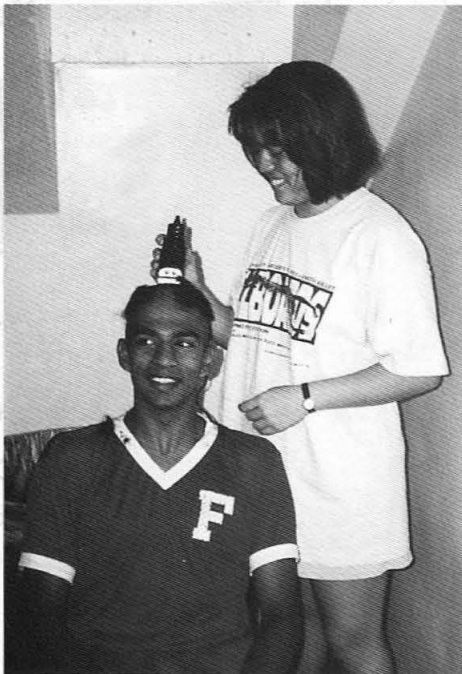
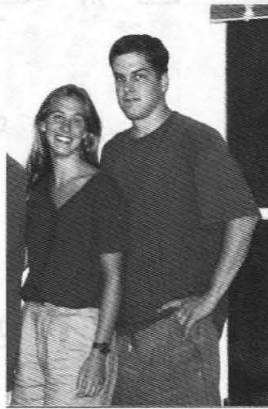
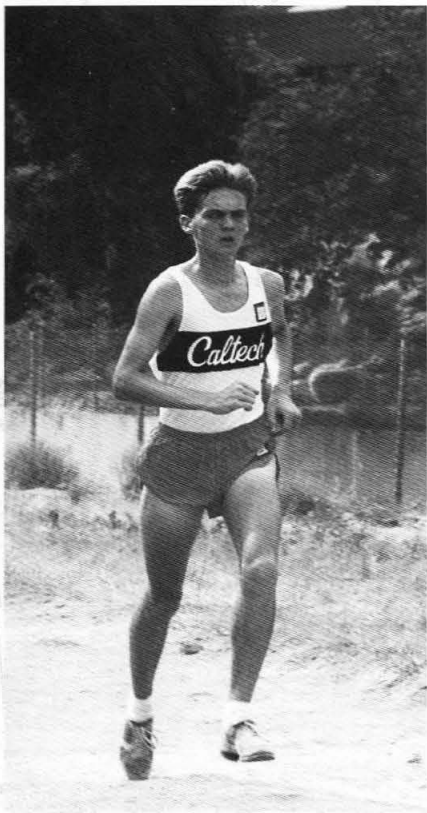
*Listener up there! What do you have to confide with me?  
Look up in my face while I snuff the sidle of evening,  
(Talk honestly, no one else hears you,  
and I stay only a minute longer.)*

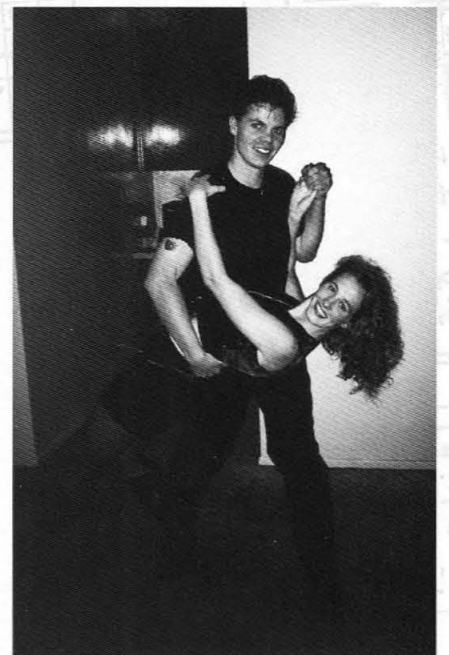
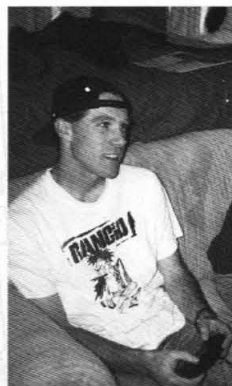
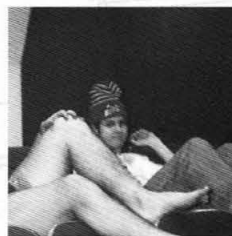
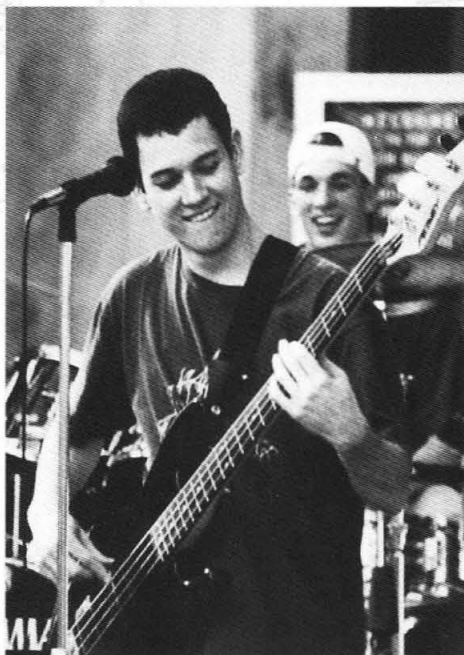
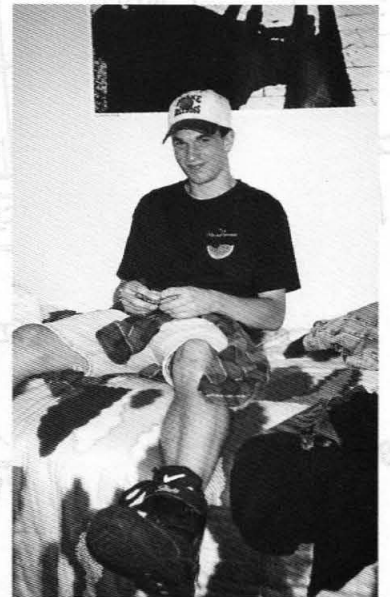
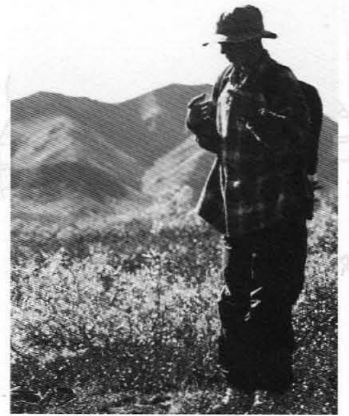
*Do I contradict myself?  
Very well then I contradict myself,  
(I am large, I contain multitudes.)*

— "SONG OF MYSELF" — WALT WHITMAN



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Westminster, California

**Dave Barth**

COMPUTER SCIENCE  
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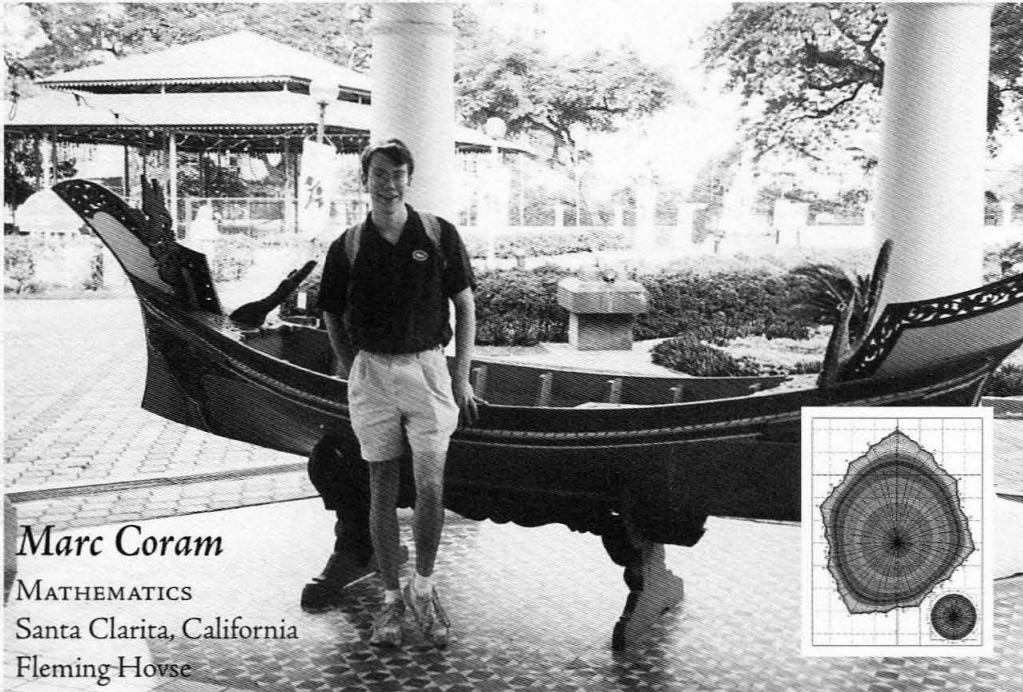
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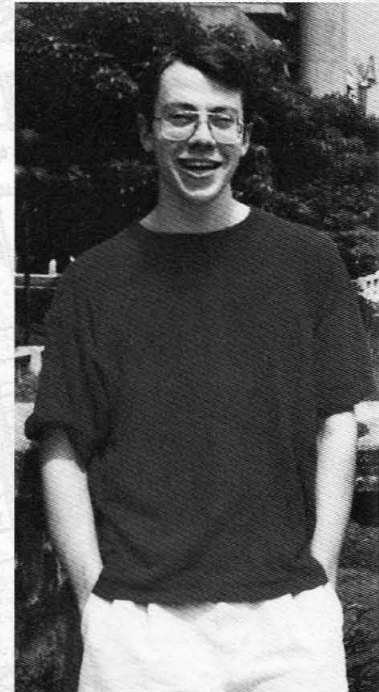
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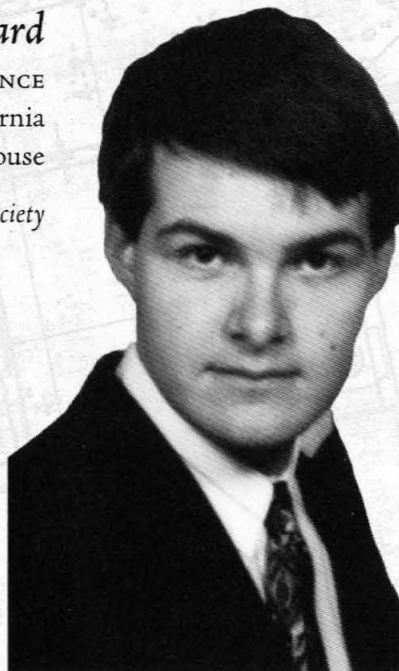
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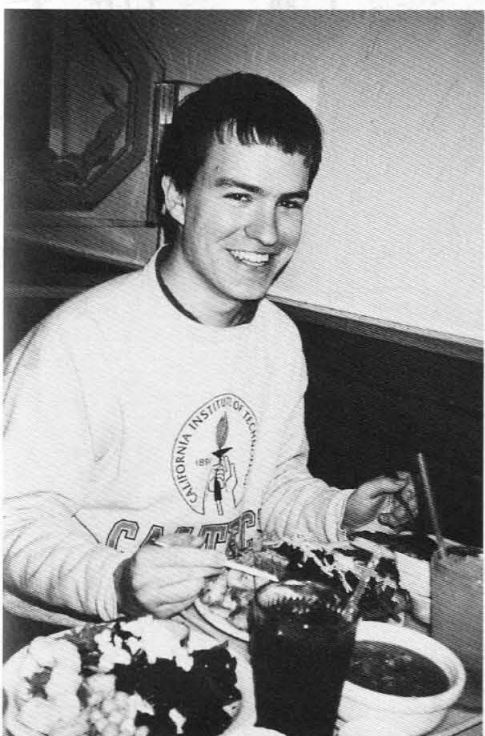
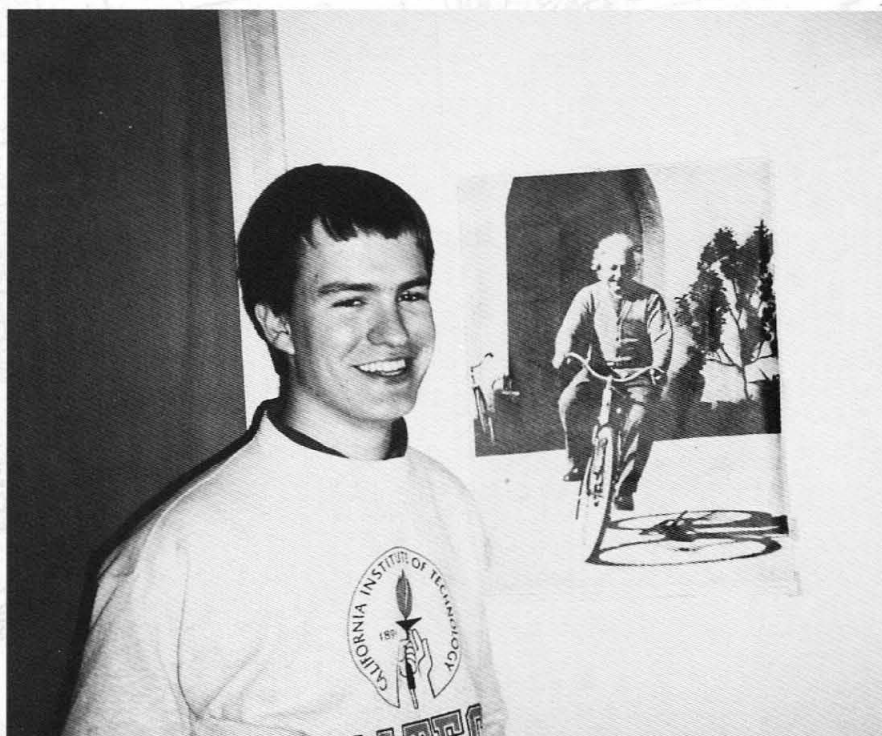
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Librarian—Caltech Anime Society



Several hundred years after  
the fall of human civilization,  
It was a lawless period—  
a time without order.  
Only blood, flesh, bone and iron.  
It was also a time of sorcery.  
Having been terrorized  
by demonic forces their entire lives,  
Human beings were  
miserably inadequate;  
And forced to subsist in a barren,  
barren environment.

— BASTARD!



## *Cyrus Behroozi*

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Blacker Hovse

## *Sebastian Maurer*

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## *Tom Niday*

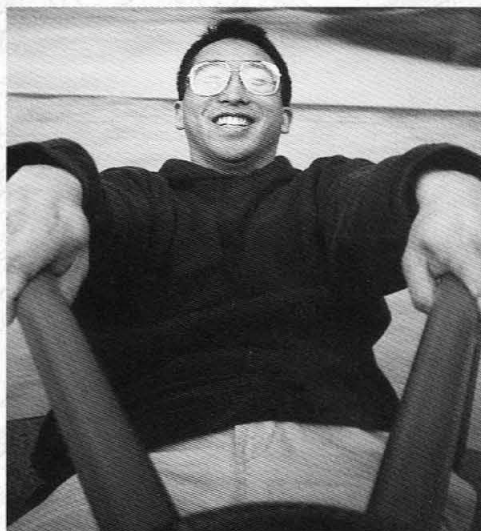
PHYSICS AND APPLIED MATHEMATICS  
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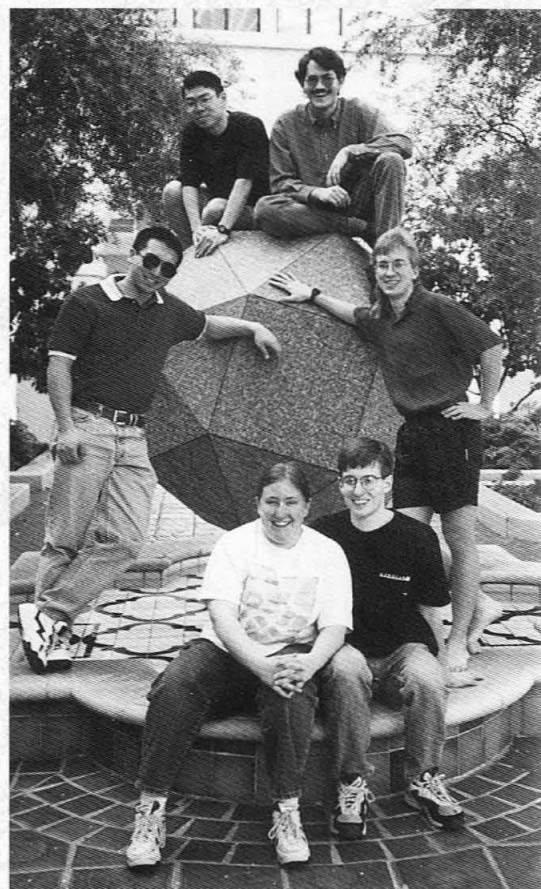


*I will lift up my eyes to the mountains;  
From whence shall my help come?  
My help comes from the LORD,  
Who made heaven and earth.*  
— PSALMS 121:1-2



Sunnyvale, California  
Lloyd House

**DANIEL AZUMA**  
COMPUTER SCIENCE



APPLIED PHYSICS



**ELWYN T UY**

Bellingham, Washington — Ruddock House

*Stand For the grace that I've known  
With my face to the wind For what I believe'  
With the storm beating down Then I won't stand alone'  
On this sacred ground No, I won't stand  
If I stand I won't stand alone.*

— FERRO, LEAH & SONDERLING



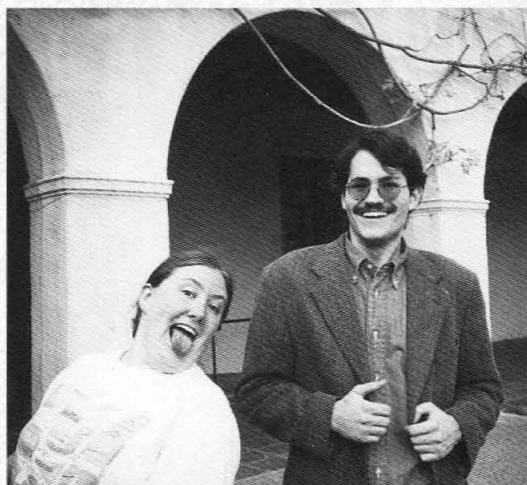
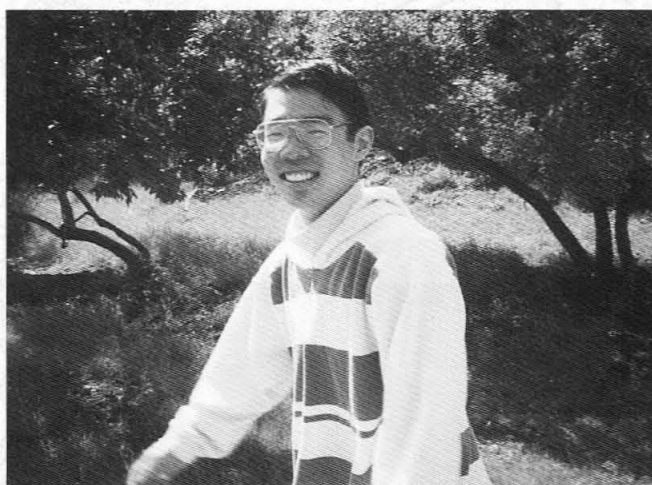
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Needham, Massachusetts  
Ruddock House

COMPUTER SCIENCE  
Federal Way, Washington  
Ruddock House

# LAURA JAMES DOOLEY

*Therefore what God hat joined together let no man put asunder.*

— MATTHEW 19:6



# JONATHAN ALDRICH

COMPUTER SCIENCE  
Vancouver, Washington  
Ruddock House



# OBADIAH J MANLEY

COMPUTATION & NEURAL SYSTEMS  
Grass Valley, California  
Ruddock House

*Look at the world—don't ignore it.  
Look at nature, at how the human body works,  
at how each of us can so deeply love  
and hate other men.  
God is there; He is real.  
Earnestly search for what is true;  
and you will find Him.*

— ME; PROVERBS 2:1-6; MATTHEW 7:7-11

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## Chris Chang

CHEMISTRY  
Palo Alto, California  
Page House

## Jenny Chu

BIOLOGY  
Glendora, California  
Page House

*So neither he who plants nor he who waters is anything,  
but only God, who makes things grow.*  
— 1 CORINTHIANS 3:7

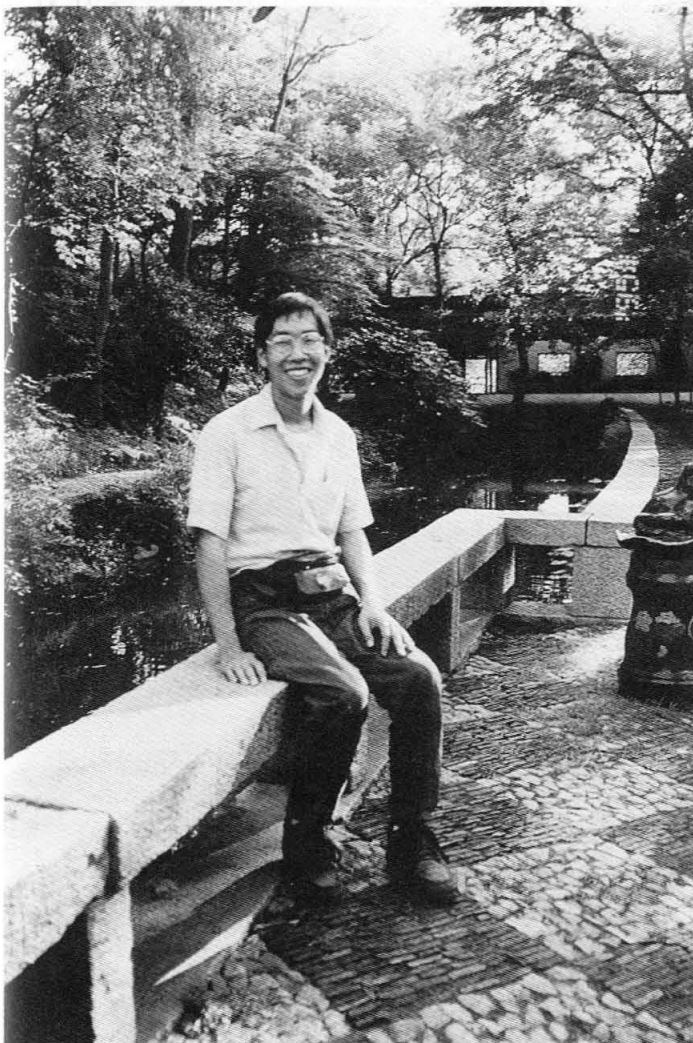


## Clay Kishiyama

*I have come to love this place I hated so much.*

MECHANICAL ENGINEERING  
Orange, California  
Page House





## Frank Ling

CHEMICAL ENGINEERING  
Long Beach, California  
Page House

*After the lock fell off,  
the buttons have been acting funny.*

*In high-rise city canyons dwells the discontent of ages,  
On ring roads, nose to bumper crawl commuters in their cages,  
Cryptic signals flash accross from pilots in the fast lane:  
Double-locked and belted in—too late to make the Clasp.*

## Yani Copas

BIOLOGY  
Winchester, Massachusetts  
Ricketts Hovse & Dabney Hovse

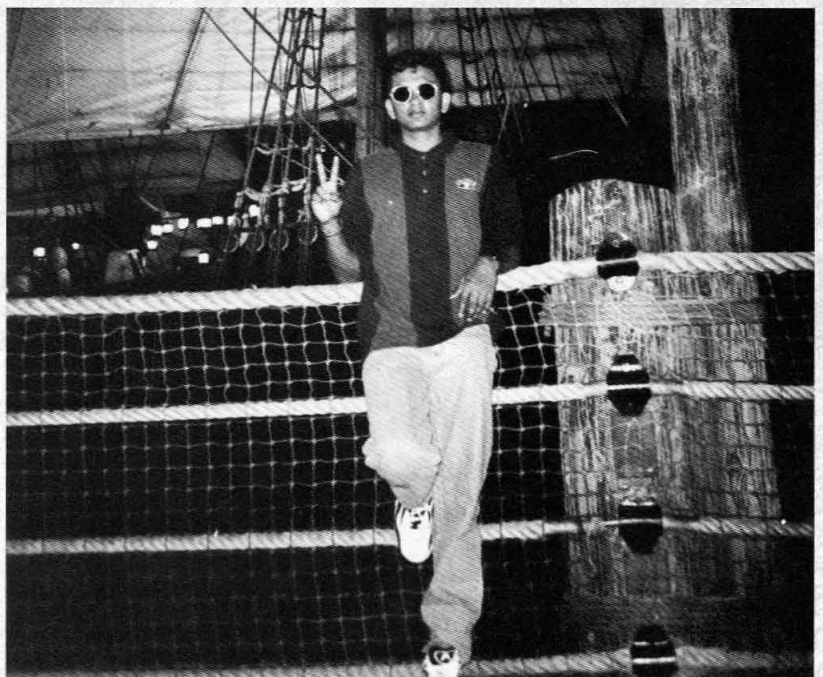
*Let's break the journey now on some lonely road.  
Sit down as strangers will, let the stress unload.  
Talk in confidential term, share a dark unspoken fear.  
Refill the cup and drink it up.  
Say goodnight and wish good luck.  
— "CLASP" — JETHRO TULL*



## Bob Webbink

MECHANICAL ENGINEERING  
Champaign, Illinois  
Page House

*This new learning amazes me.  
Explain again how sheeps' bladders  
may be employed to prevent earthquakes.*



## Ramya Dissanayake

ELECTRICAL ENGINEERING  
Kadawatha, Sri Lanka



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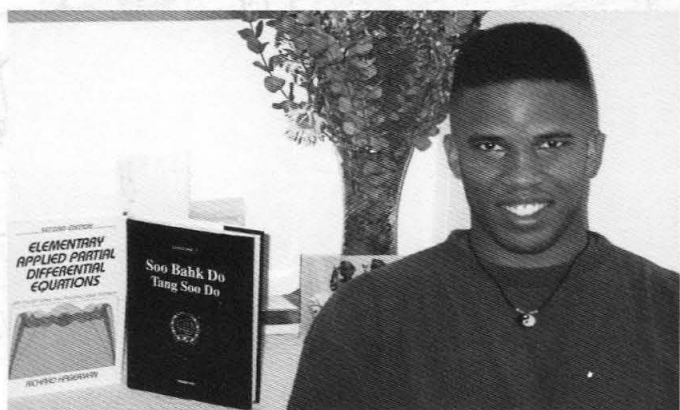
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Edmond, Oklahoma  
Lloyd House



*Morgan Davis*

ELECTRICAL ENGINEERING  
Spokane, Washington  
Fleming Hovse



*William C Glenn Jr*

ENGINEERING & APPLIED SCIENCE  
Pittsburgh, Pennsylvania

*A dojo is a miniature cosmos  
where we make contact with ourselves—  
our fears, anxieties, reactions and habits.*

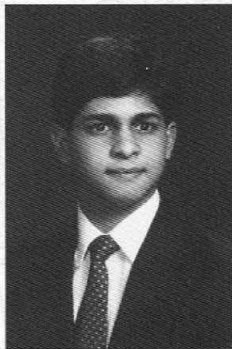
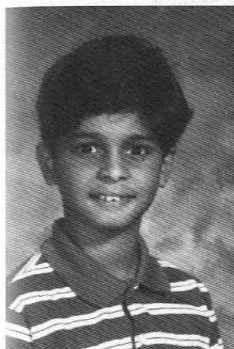




## Narasimha Rao Prasanth Surampudi

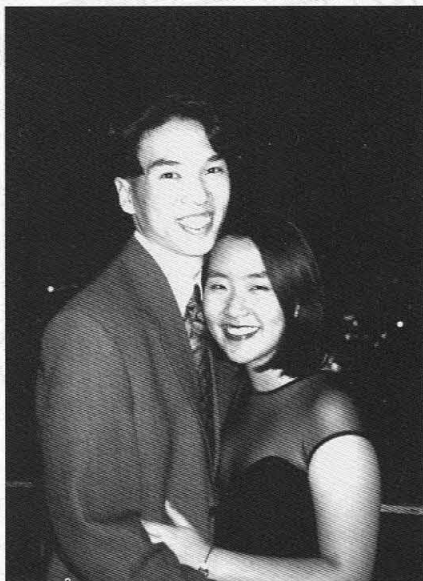
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Glendora, California  
Page House

*To my parents, my sisters,  
my uncles, my aunts,  
my family, and my friends—  
thank you for all your support  
and encouragement.*

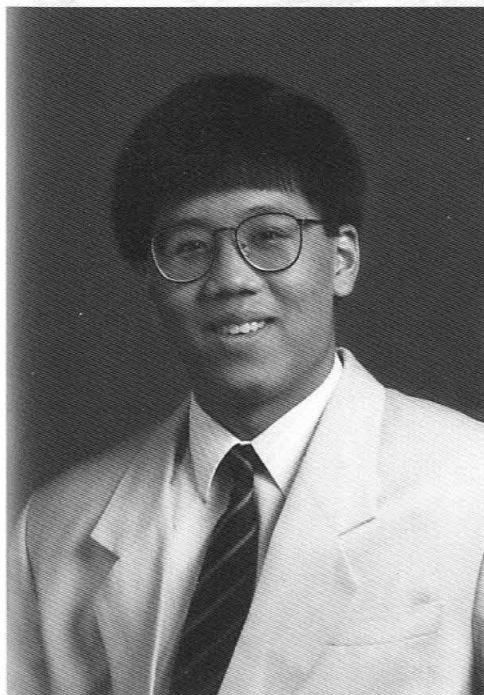


## Donald Y Kwak

MECHANICAL ENGINEERING  
Schererville, Indiana  
Page House



*I hear and I forget.  
I see and I remember.  
I do and I understand.*  
— CHINESE PROVERB



*Learning in old age is writing on sand,  
but learning in youth is engraving in stone.*

— ARABIAN PROVERB

*"Meaningless! Meaningless!"... "Utterly meaningless!  
Everything is meaningless!"... Of making many books  
there is no end, and much study wearies the body.  
Now all has been heard; here is the conclusion of the matter:  
Fear God and keep his commandments,  
for this is the whole duty of man.*

— ECCLESIASTES 1:2; 12:12-13

## Winston Chuen-Shih Yang

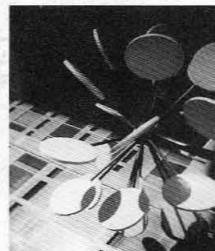
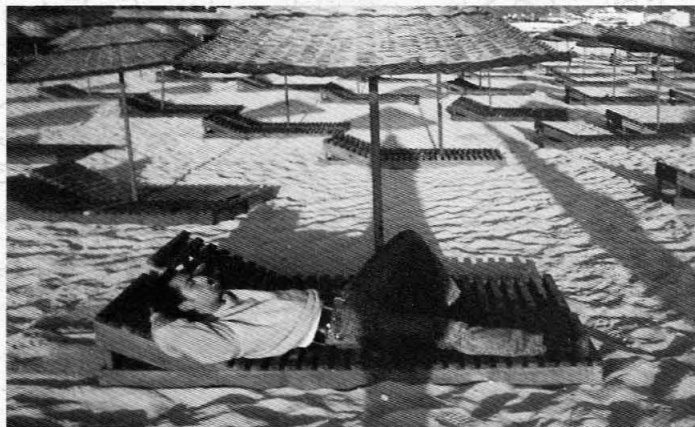
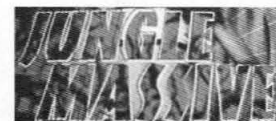
MATHEMATICS  
Davenport, Iowa  
Fleming Hovse

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Matthew "Matty"  
"Mattski Luv" Noble

MECHANICAL ENGINEERING  
Fort Lauderdale, Florida  
Blacker Hovse



Yusuf Cem Gomel

ELECTRICAL ENGINEERING  
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CREAM



M Charles Bachand

ENGINEERING  
& APPLIED SCIENCE  
Sacramento, California  
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"Supernaut!"

— 1000 HOMO DJs — AL JOURGENSEN



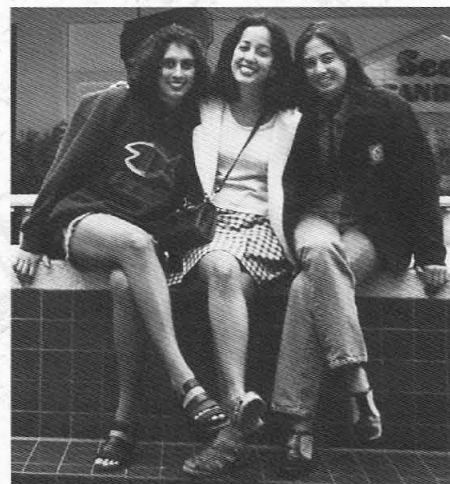
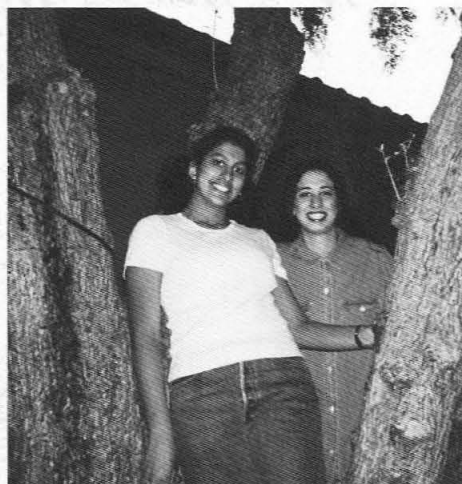


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*Gina Serraiocco*

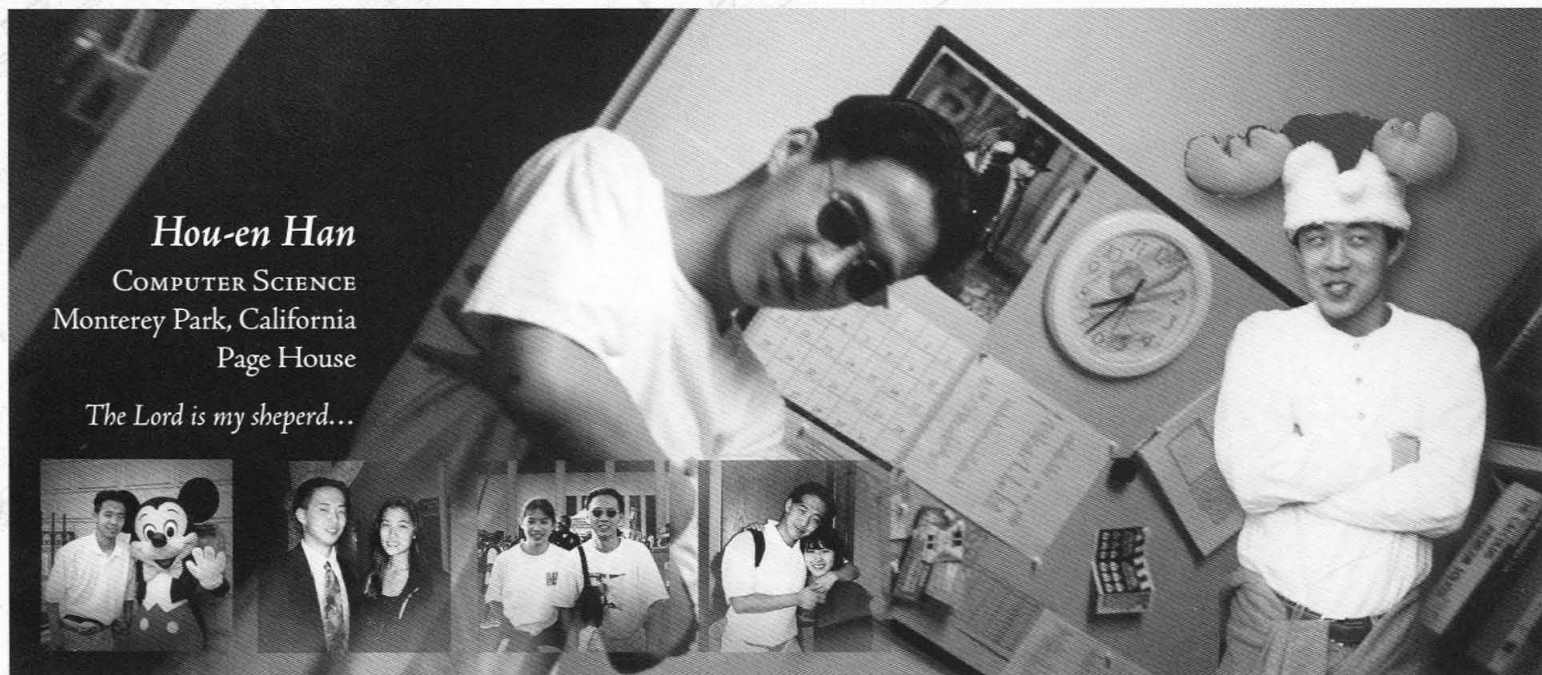
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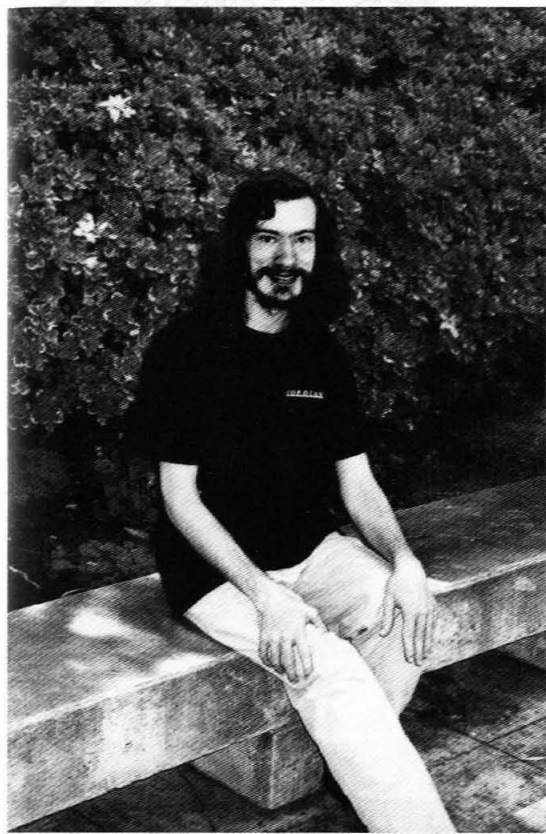
*Hou-en Han*

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Monterey Park, California  
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*The Lord is my sheperd...*







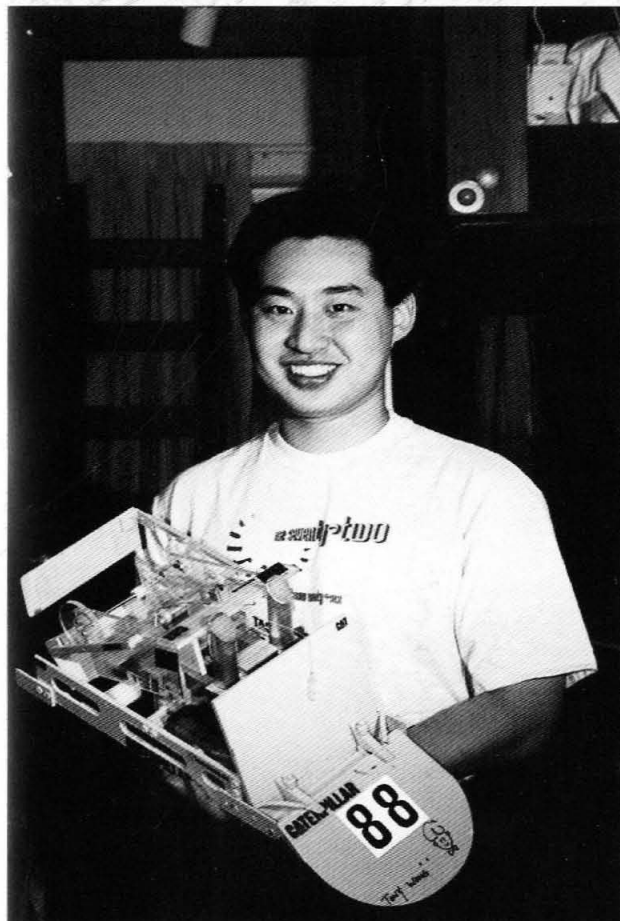
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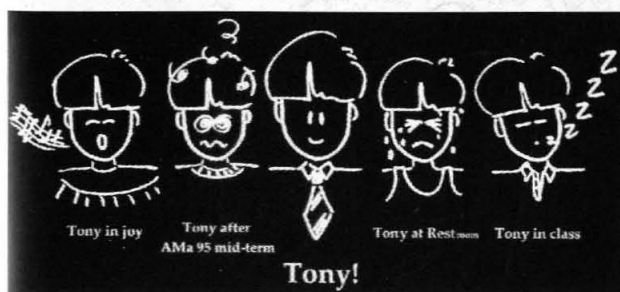


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**Patrick Spradlin**

PHYSICS  
Lewistown, Montana  
Ricketts Hovse

*I was within a hair's breadth  
of that last opportunity for pronouncement,  
and I found with humiliation  
that probably I would have nothing to say.*

— JOSEPH CONRAD



**Matias Elijovich**

MATHEMATICS  
Emerson, New Jersey  
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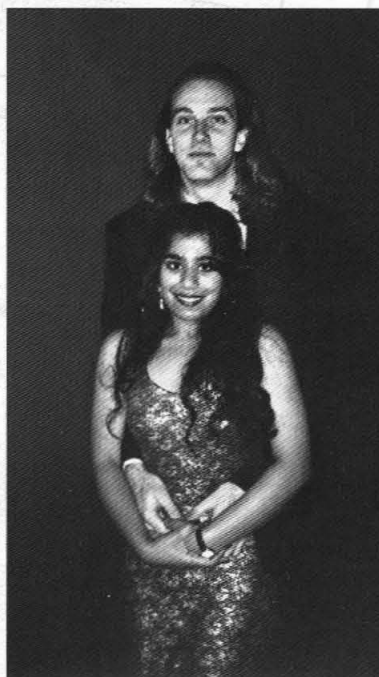
*Everywhere beginnings—  
beautiful, infinite—  
therefore forgotten.  
Scarce endings—  
so painful—  
therefore memorable;  
Remind me,  
Of beginnings.*



**James Quallen**

CHEMISTRY  
Tampa, Florida  
Ricketts Hovse

*It's my gift.  
It's my curse.*





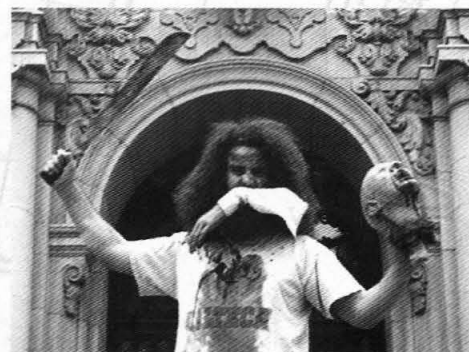


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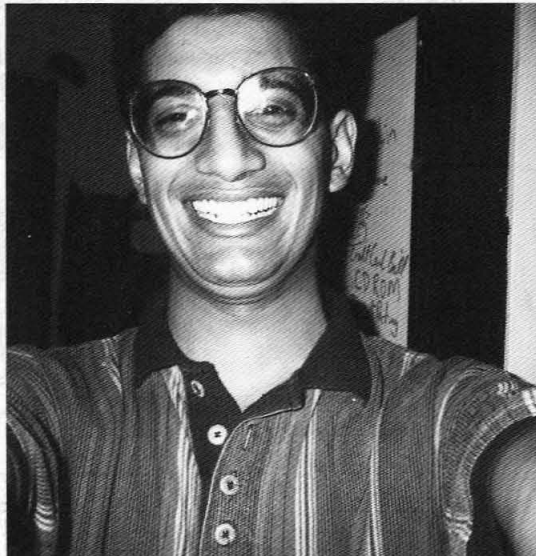
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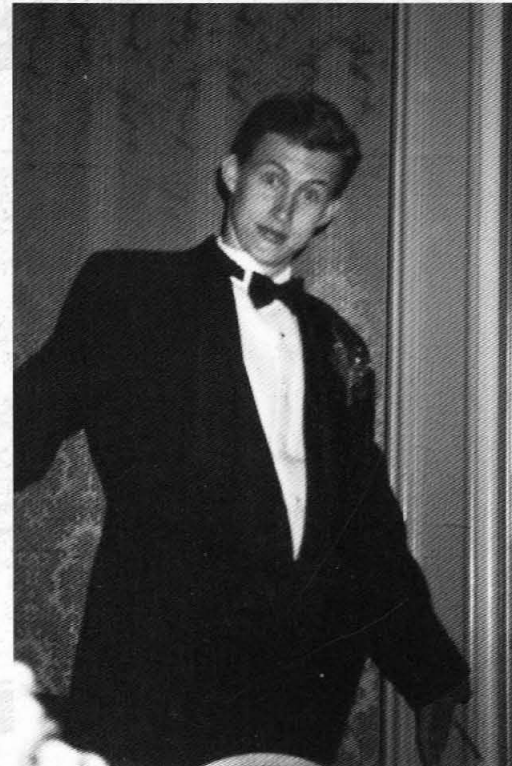
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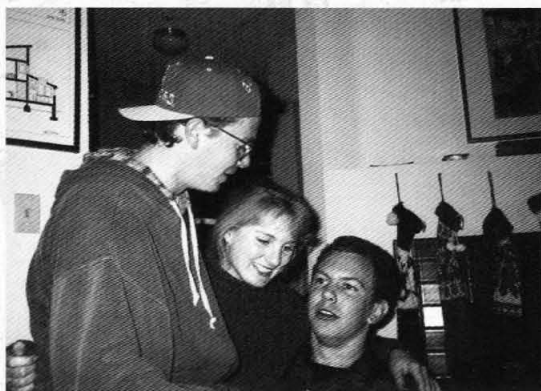
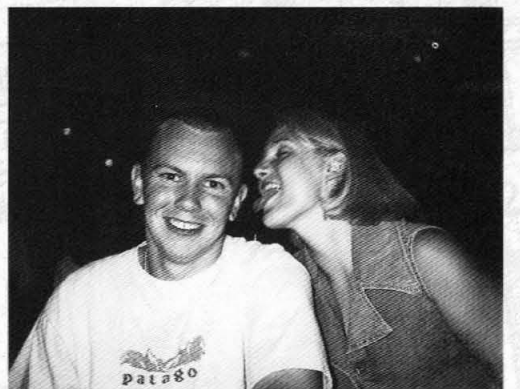
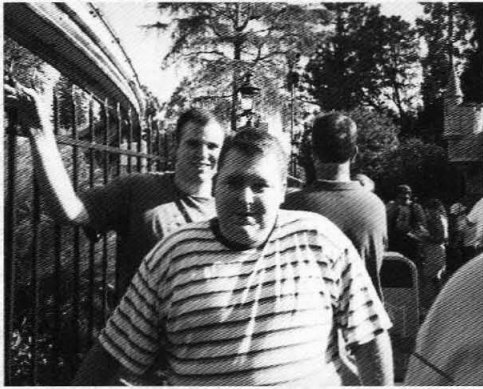
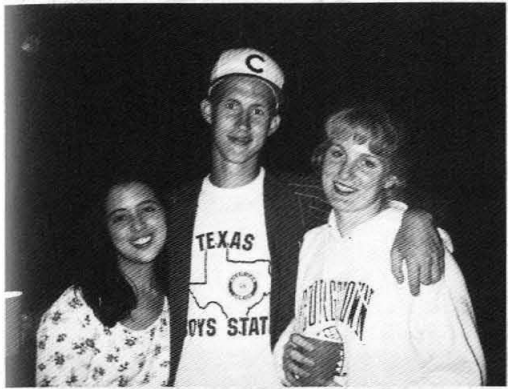
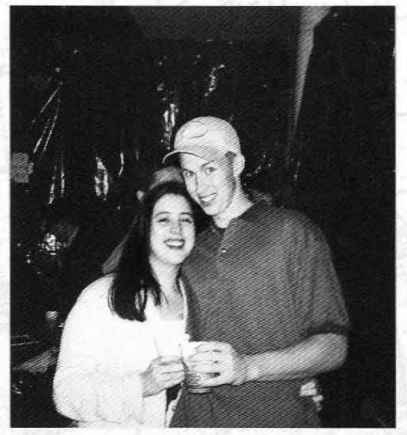
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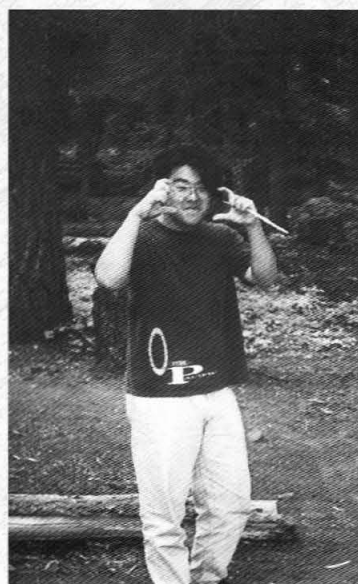
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The Woodlands, Texas  
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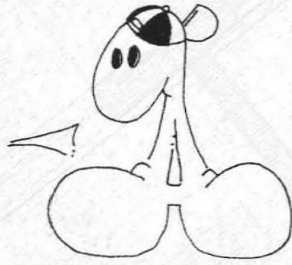
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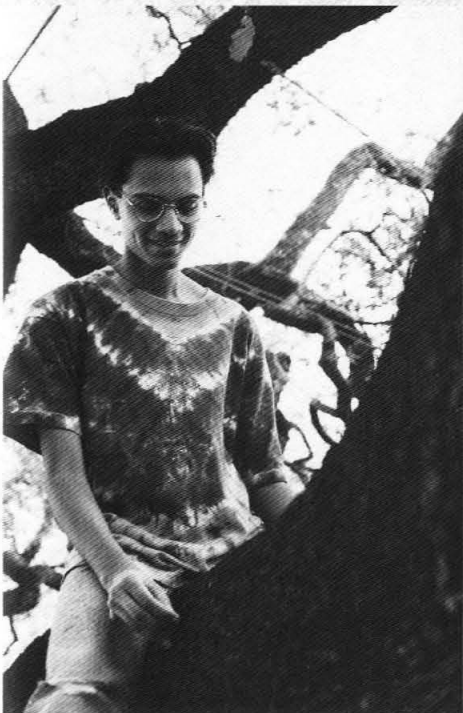
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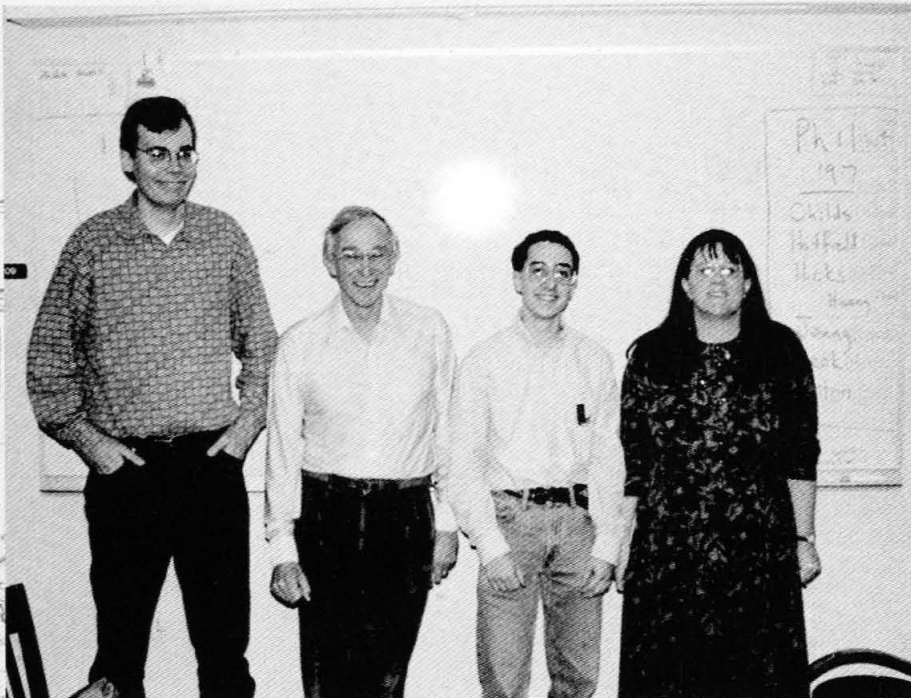
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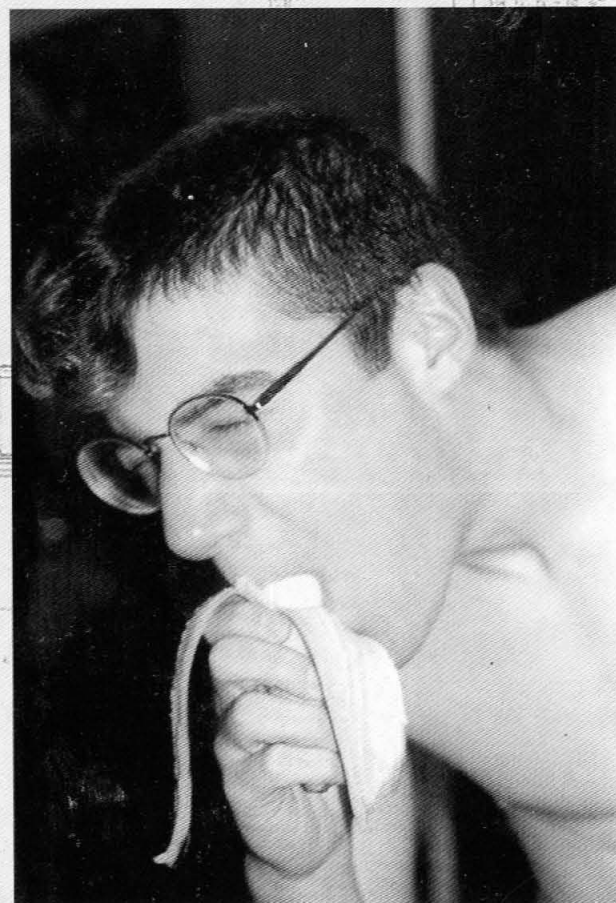
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**Samson Timoner**  
APPLIED PHYSICS  
Hamden, Connecticut  
Blacker Hovse



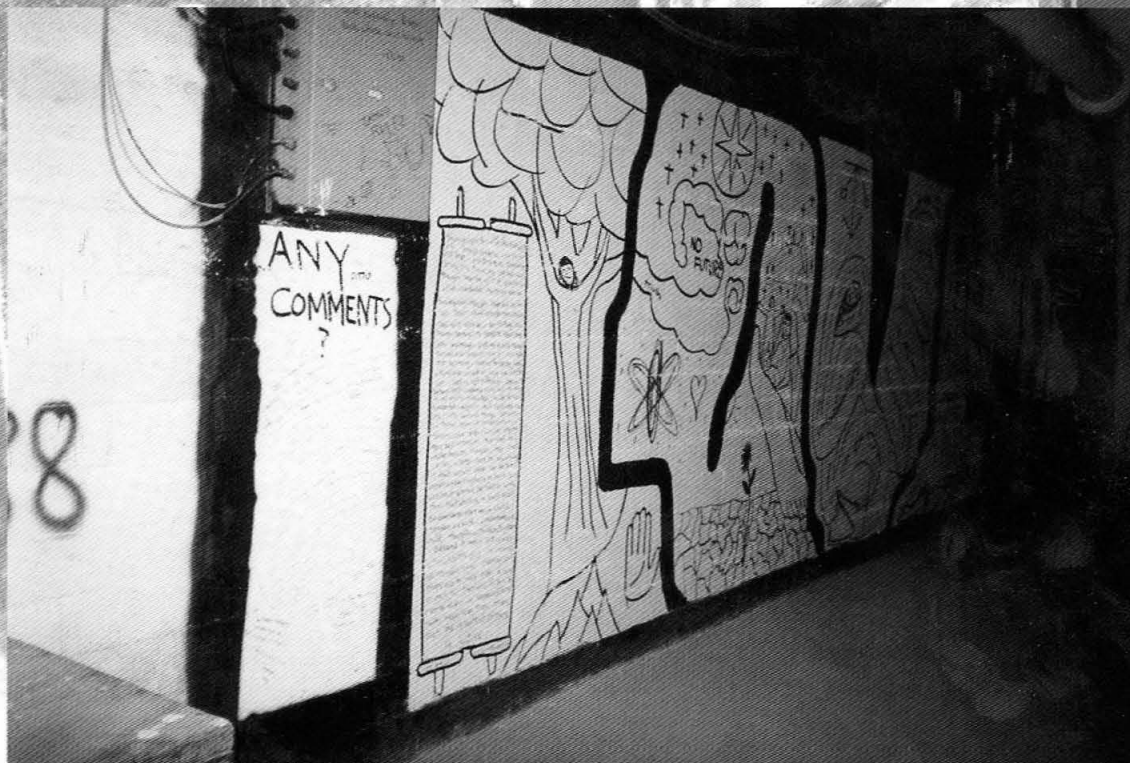
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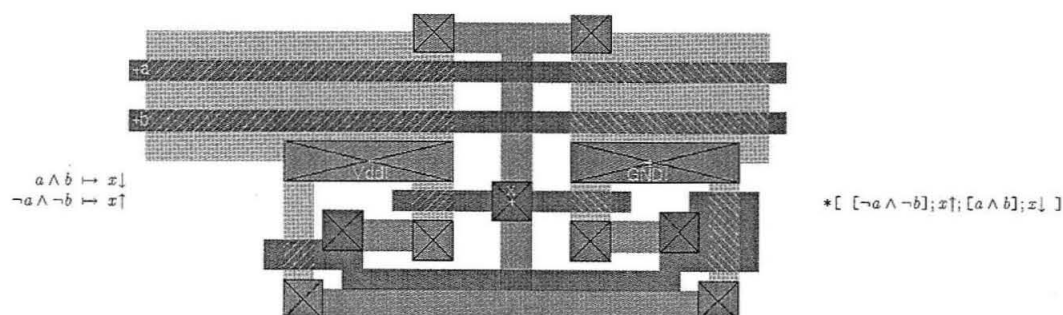
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Jason Haycox Heiss  
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Pauline Crystal Ng  
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Michele Sweeney Wiegand  
Narasimharao Surampudi

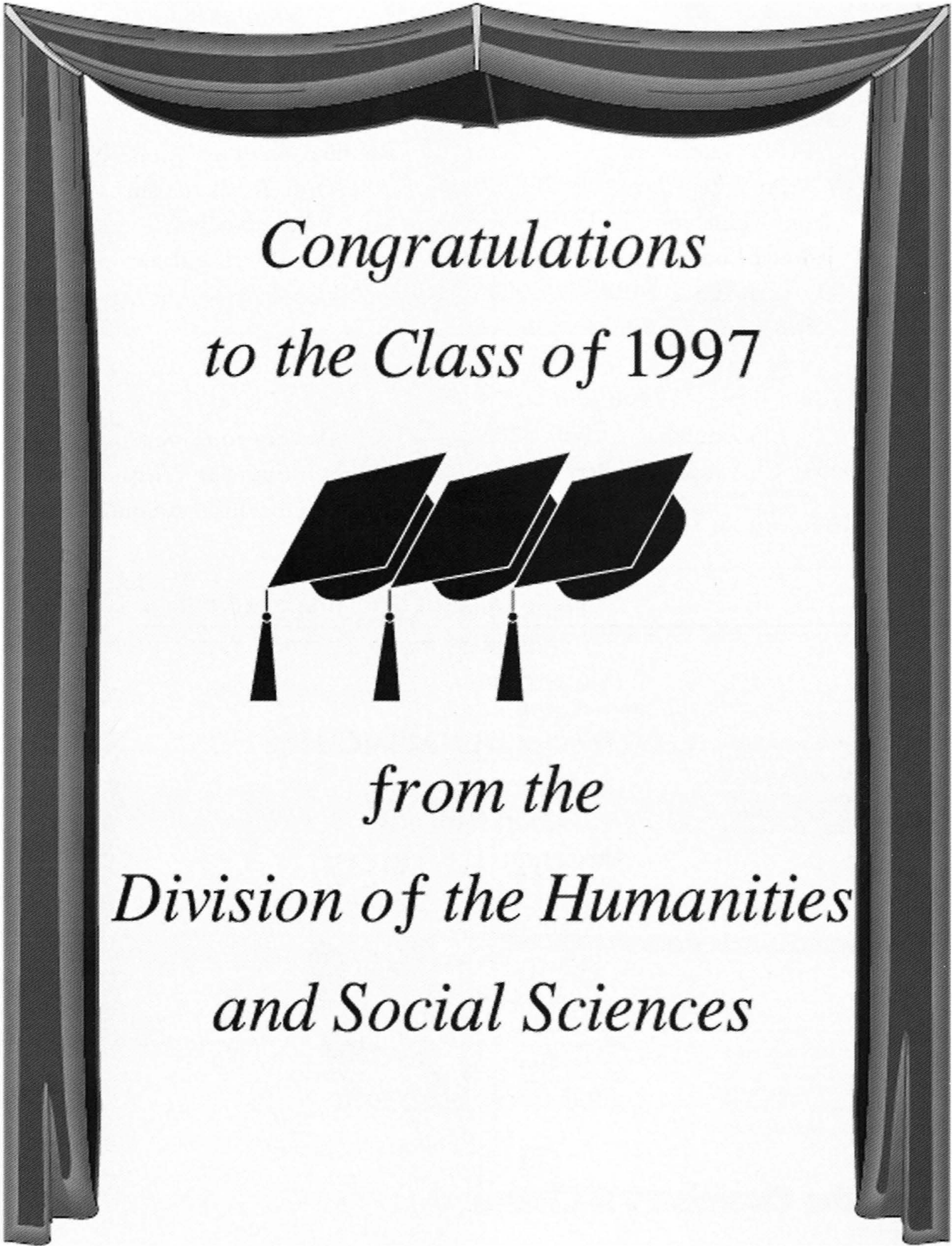
—The Department of Biology

## Congratulations to the Class of 1997

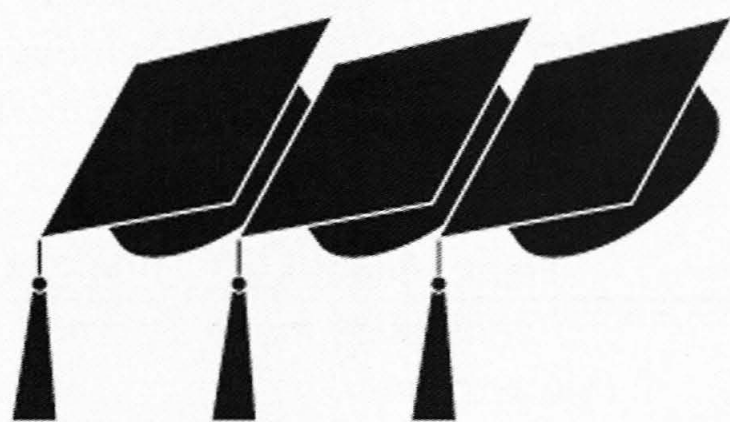


FROM THE FACULTY AND STAFF OF  
THE DIVISION OF ENGINEERING AND APPLIED SCIENCE





*Congratulations  
to the Class of 1997*



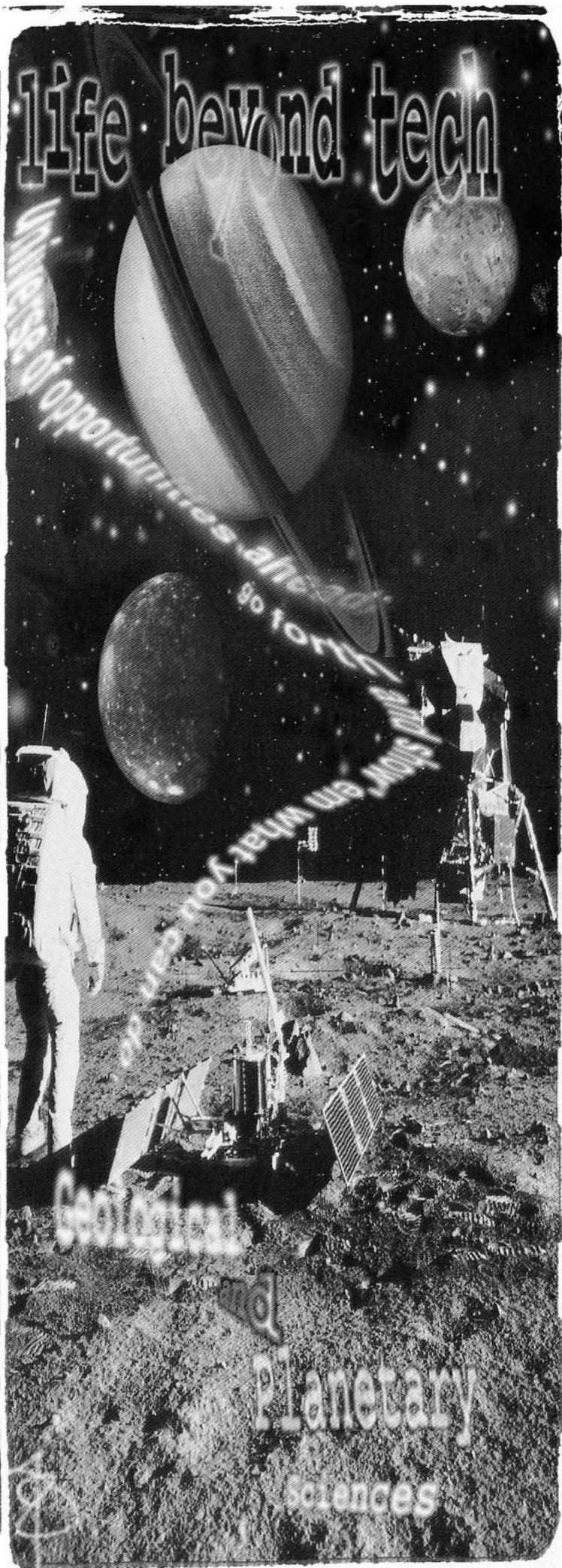
*from the  
Division of the Humanities  
and Social Sciences*

# **Congratulations to our graduates!**

Christopher J. Chang  
Larry Jenn-Yu Chen  
Shirley Shuying Chen  
Amanda Lorraine Eckermann  
Melissa Lee Hampton  
Jason Hong  
Andrew Sumika Huntington  
Brian Samuel Jenkins  
Neil Christopher Jones  
Anuraag R. Kansal  
Kenneth Andrew Kharma  
Gretchen Marie Larson  
Frank Hiroshi Ling  
Carlos Maldonado  
Muhammad Atif Malik  
Noah Malmstadt  
Arlene Paz Pons  
James Joseph Quallen  
Albert Ramirez  
Alessandro Luigi Spadini  
Mark Richard Stewart  
Jamie Dale Walls  
Steven Paul Bennett  
Wai Pang Kwan

**From the Chemistry & Chemical Engineering Department**





# Congratulations Class of 1997!



*From the  
Office of the President*

**Robert Ronchetto**  
Vice President  
Branch Manager

Lake-Colorado Branch 0226

**Bank of America NT&SA**  
880 E. Colorado Boulevard  
Pasadena, CA 91106  
818/304-3101 (BAnet 578)



**Bank of America**

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**O'Leta Carter**  
Vice President  
Customer Service Manager

Lake & Colorado Branch 0226

★  
Gold Club  
Member

**Bank of America NT&SA**  
880 E. Colorado Boulevard  
Pasadena, CA 91106  
818/304-3117 (BAnet 578)  
Customer Service 818/507-6700



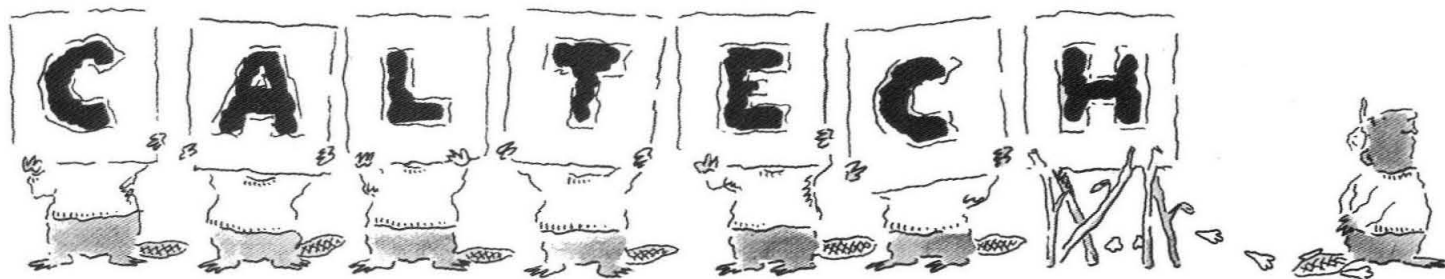
**Bank of America**

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Congratulations  
and Good Luck  
*Class of 1997!*

SURF OFFICE

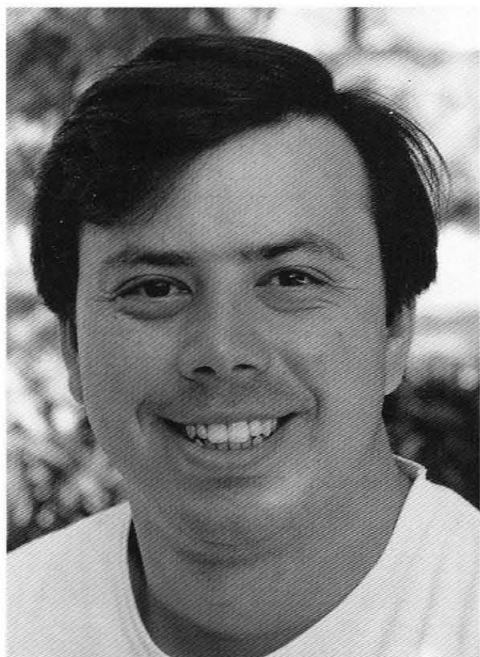


This is your *final* final. Choose your own caption.

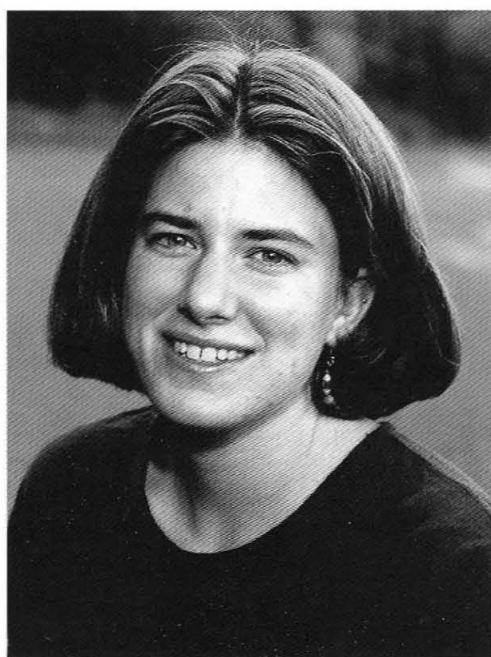
- a) Been there, done that.
- b) Now it's time to say goodbye to Beav and all his friends.
- c) Job well done, time to go?
- d) The Class of '97 practices for a reprise of the great card stunt of '61.
- e) So you're finally getting the "H" out of Caltech!
- f) Leave it to the other beavers!
- g) Congratulations to the Class of 1997 from the Offices of Public Relations and Public Events!



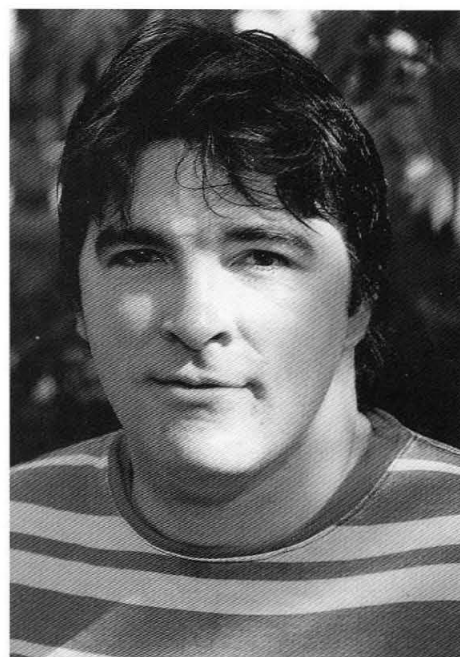
*Congratulations!*  
*We think you're terrific!*  
*Residence Life and MOSH's Office*



Rich Wolf  
Ph.D., Geology  
minor in Geochemistry



Katherine Hannon  
M.A., Chemistry



Mike Burl  
Ph.D., Electrical  
Engineering



Kim D. West  
Ph.D., Higher Education  
University of Southern  
California



Jennifer Holland  
B.S., Environmental  
Engineering

# **CONGRATULATIONS TO THE CLASS OF 1997!**



**YOUR FRIENDS AT PHYSICAL PLANT ARE PROUD OF YOU.**



## A black and white photograph of a man in academic regalia, including a cap and gown with a stole, standing outdoors during a graduation ceremony. Other graduates are visible in the background.

David B. Wales has served the Caltech community in many ways, most recently as Master of Student Houses. As he leaves that position to return to full-time teaching, we would like to thank him for opening his home to students for dinners, backyard pool parties, and those infamous dessert nights; for all of the time and effort that went to the development of Avery House; and for his willingness to participate with the Residence Life Office in staff training programs and office activities.

David, you have been a valued colleague to all of us and we will miss you more that you could ever know. You will always have a place in our hearts and a home in Residence Life. Good luck and don't be a stranger!

*(Handwritten signatures and names scattered across the page)*



*Caltech Student Affairs Mission Statement:*

*Student Affairs at Caltech complements and enhances the Institute's education mission by ensuring a healthy and supportive environment that enables students to grow academically and personally in preparation for meeting current and future challenges.*

*Independently and in collaboration with students, faculty and staff, we serve our community by responding to the issues, ideas and needs of all students. Utilizing diverse approaches, we provide programs and services of the highest quality.*

## CONGRATULATIONS TO THE CLASS OF 1997 FROM THE ATHLETIC DEPARTMENT

Don Bene: Cross Country, Track  
Maureen Burl: Volleyball  
John D'Auria: Baseball  
Clint Dodd: Swimming, Water Polo  
Denise Gabaldon: Athletic Trainer  
Wendell Jack: Assistant Athletic Director  
Mike Jackson: Golf

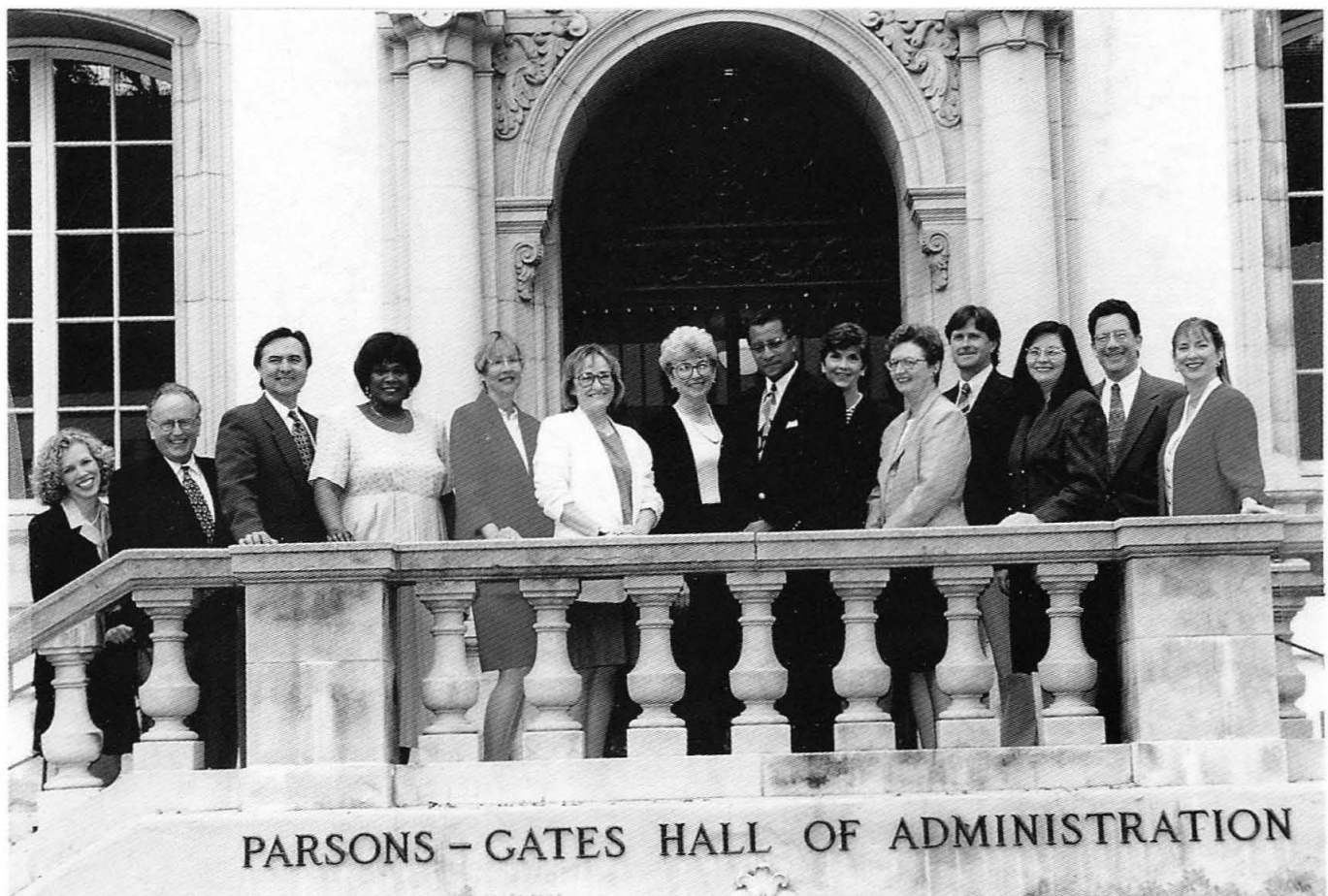
Irene Loera: Administrative Assistant  
Karen Nelson: Tennis, SWA  
Jean Time: Administrative Assistant  
Julie Tingle: Soccer, Track  
Marc Torres: Equipment Manager  
Bob Townsend: Groundskeeper  
Gene Victor: Basketball

Dan Bridges: Athletic Director



*Institute Relations  
Congratulates the Class of '97 and Salutes Tom Everhart  
for a Decade of Leadership at Caltech!*

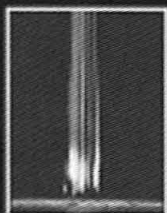
*Graduates:  
May Your Futures Be Bright and Your Memories of the Institute Sweet.*





**Sandia National Laboratories**

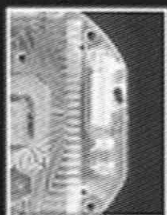
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Sandia National Laboratories is dedicated to enhancing the security, prosperity and well-being of the nation. As a multiprogram laboratory, we are devoted to leadership in anticipating national priorities and in applying the best integration of scientific and engineering creativity to achieve comprehensive, timely and cost-effective solutions to our nation's most pressing problems. The charge "to render an exceptional service in the national interest" has evolved into the strategic intent of the Laboratories.



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## Congratulations to the Class of 1997 from the Caltech Y



Amy, Bradey, Prista, and  
Seth...thanks for helping us  
"Make a World of Difference"

## Congratulations, Graduates!



From the Student Activities Center Staff



# CONGRATULATIONS TO THE CLASS OF 1997 FROM THE ALUMNI ASSOCIATION



# **Congratulations and Good Luck Class of 1997**



## **Career Development Center**

# **Congratulations and Best Wishes to the Class of 1997**



## **The Office of the Provost**



Congratulations to  
the Class of 1997



From the  
Dean's Office

Congratulations,  
Graduates!

Office of the  
Registrar

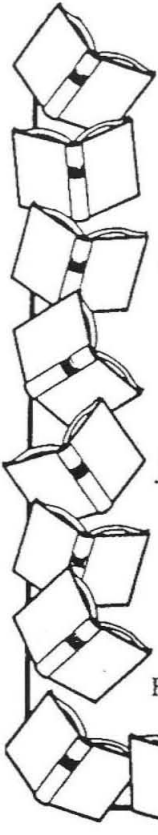
Congratulations to the Class of 1997!



Office of Admissions

## CONGRATULATIONS CLASS OF 1997

### BE A FRIEND...



*Friends of Caltech Libraries membership enables grads, as well as current students, to continue their Caltech connections and support! FOCAL helps in promoting the Caltech libraries by raising funds to supplement library purchases and services.*

*FOCAL activities include a luncheon in the Spring and dinner in December. Both events take place in the Ath and feature exciting speakers! There are also a number of smaller, "members only," evening programs. FOCAL's annual Book Sale is always a big hit, too!*

For details call (818) 395-6411 or write FOCAL, Caltech 1-32, Pasadena, CA 91125

**You're only a student  
here a short while,  
but you're a  
Techer forever!**

## Congratulations Class of 1997

THE ALUMNI FUND



## CONGRATULATIONS, GRADUATING CLASS OF 1997

LET'S KEEP IN TOUCH...YOUR MEMBERSHIP IS WELCOME



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## Congratulations to the Class of 1997 And Best Wishes for a Great Future

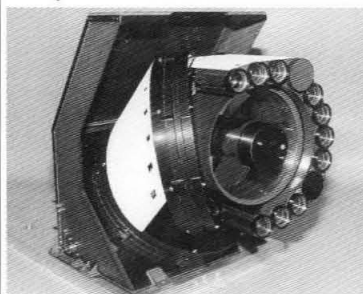
### The Faculty

## CONGRATULATIONS CLASS OF 1997



AstroTerra Corporation Staff

Satellite Lasercom Hardware  
to fly in 1998.



Since March 1993, AstroTerra Corporation has developed and manufactured high technology products in the fields of communications, data collection (such as non-intrusive and remote sensing), and data display. AstroTerra's aim is to transfer laboratory innovations into mature manufacturable

designs that can be utilized by both government and commercial customers. AstroTerra looks for the superior skills and high quality education of Caltech graduates. Six of our staff members are Caltech alumni who have helped bring AstroTerra to the forefront of laser communications technology.


Commercial Laser  
Communications Equipment





# HATS OFF!

**Congratulations to the  
graduates of '97.**



As a part of the  
Caltech family,  
Caltech Employees  
Federal Credit Union  
wants to wish  
you all a successful  
and rewarding future.

**We're proud of you!**

**CALTECH  
EMPLOYEES**  
*Federal Credit Union*

# Congratulations 1997 Grads!!



Best wishes and best of luck in your future endeavors from all of us at the

**Industrial Relations Center**

## Minority Student Affairs

- provides academic support services and counseling for MSA students;
- assists MSA students in pursuing graduate study and/or careers in industry;
- provides structure and support for mentoring and leadership training;
- assist the institute in providing and maintaining a healthy, supportive and culturally diverse environment for MSA students.

Programs: Tutoring, Writing Seminars, Bridge Program, YESS Program, Saturday Academy, American Indian Society of Engineers and Scientists, Caltech Latino Association of Students in Engineering and Science (CLASES) and National Society of Black Engineers.

Co-Sponsor: Black History Celebration, Semana Latina, Latino History Celebration.

## Congratulations to the Class of 1997!



# CONGRATULATIONS, GRADUATES



*Thanks for letting us be a part of your Caltech  
Experience.*

*Your friends at Campus Auxiliary and Business  
Services.*

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# TIDE congratulates the Class of 1997

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## Congratulations to the Class of 1997 Caltech Safety Office



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- Digital System Design
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*Equal Opportunity Employer, M/F/D/V. U.S. Citizenship Required.*

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The Government and Community Relations Office congratulates  
Ben, Amy, Andrew and Wren for their work on the Big T.

Our office also extends thanks to President Everhart for a decade  
of exemplary work on behalf of Caltech

**Congratulations  
and Best Wishes  
to the Class of 1997**

From the Division of Physics,  
Mathematics and Astronomy.

# COLOPHON

Conceptualized and edited by Andrew Keith Strauss & Ben Wu.  
March 1996 to December 13, 1997.

Completed by Wren Montgomery  
December 14, 1997 to January 16, 1998.

With the help of: Katy Isaacs, Erik Streed, Nicholas Breen, Rafi Rubin, Adrienne Hyldahl, Dave Tytell & Jessica Schiff, Hall Daily, Rachel Barnes, Pat Orr, Daniel Leonard, Louis Wang, Eric Hale, Nathan Schara, Joe Monaly, Ben Wu, Mic Westcoat who brought us pictures at the last minute, the Sports Department (which gave us the sports records for 1997), the wonderful people in Caltech Public Relations (Bob Paz took nearly all the color photos used in the Opening), the Tech photo archives (Well, who else would have pictures of the Caltech cheerleaders? Be glad we couldn't justify the belly dancers until now.) and the makers of A&W Cream Soda. And lots of other people — anyone who wrote, phoned, emailed, zwrote, ytalked or dropped by the office and kept me sane!

Thanks to: Random, Cobalt, Michaleen's Critter, Salem, Phantasm, Sophie, Barb's Creature, Evita the Akita, Nicodemus, Sarah, three sets of plants, one fish, and a hard drive for getting Wren & Katy out of the office. Yeah.

All the section headings came from real things we had on hand. No forgeries.

We're sorry about the unfortunate placement of the solution to the Sailboat Problem. Ask an upperclassman. Maybe they'll remember how to do it...

Warning: this yearbook created under the influence of: Tom Lehrer, Jim Croce, Mame, Rent, and moldy Christmas oldies like "Rockin' Around the Christmas Tree."

Wren & Katy's plan: Pass 106. (Probably not this year, though.) Graduate. (Definitely not this year.) Open up a restaurant in Santa Fe.



See, the belly dancers liked the Big T...

# FIN





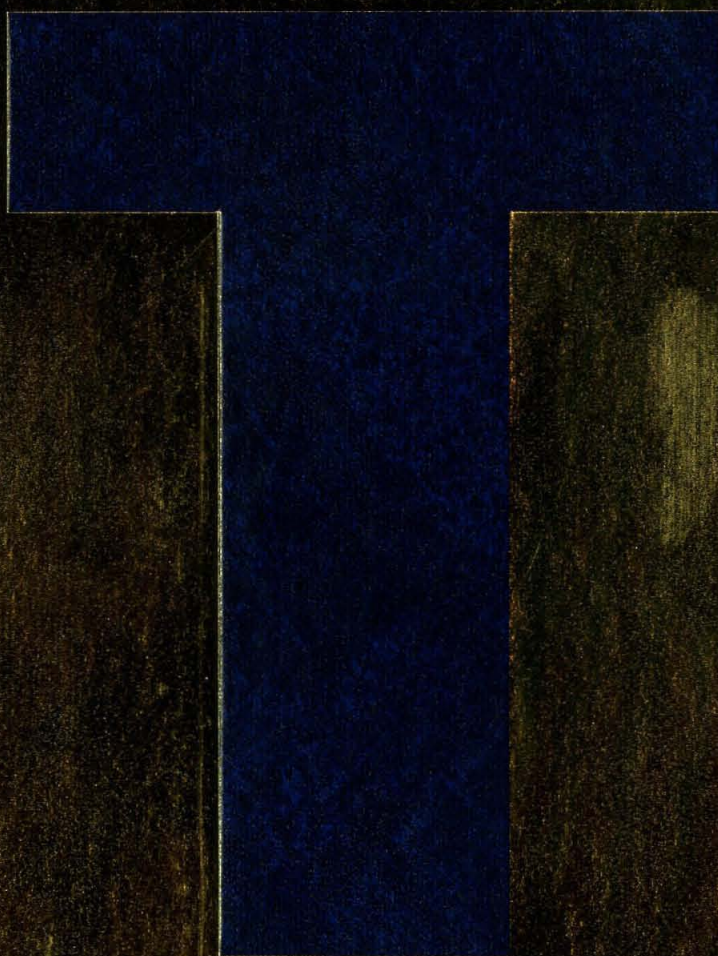






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CALIFORNIA INSTITUTE OF TECHNOLOGY

# The Big



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