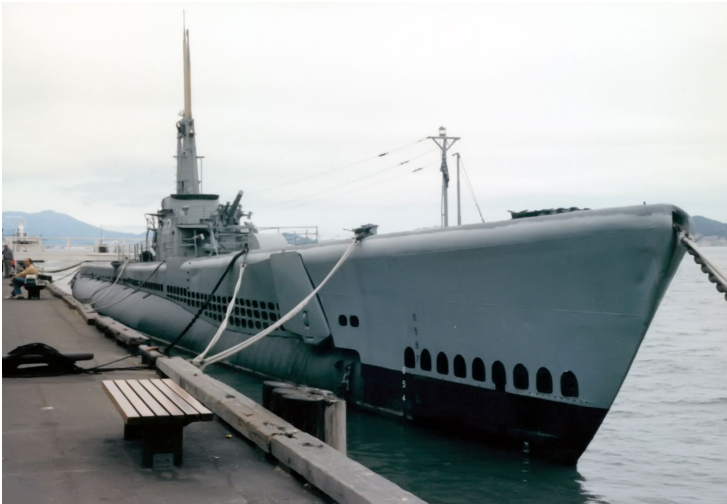


TRAVELS NOW AND THEN

© Christopher Earls Brennen

NORTHWEST 1985



San Francisco



San Francisco



San Francisco





*Lassen Volcanic National Park*



*Lassen Volcanic National Park*



*Lassen Volcanic National Park*





*Lassen Volcanic National Park*



*Lava Beds National Monument*



*Lava Beds National Monument*

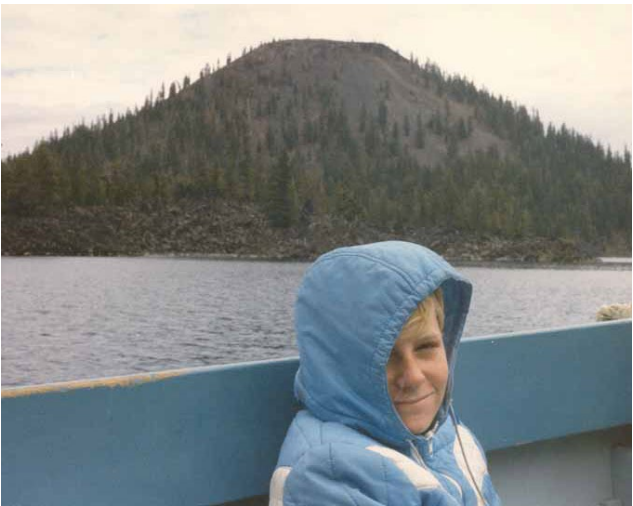




*Crater Lake National Park*



*Crater Lake National Park*



*Crater Lake National Park*





*Crater Lake National Park*



*Crater Lake National Park*



*Mount St. Helens*





*Mount St. Helens*



*Mount St. Helens*



*Mount St. Helens*





*Mount Ranier National Park*



*Mount Ranier National Park*



*Fort Nisqually?*





*Fort Nisqually?*



*Fort Stevens State Park*



*Honeyman State Park*

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---

*Last updated 7/30/99.  
Christopher E. Brennen*



**EDITOR IN CHIEF**

**RICKY OYAMA**

**ASSOCIATE EDITOR**

**KATHARINE BRENNEN**

**HEAD PHOTOGRAPHER**

**PAUL BEACH**

**ADVISER**

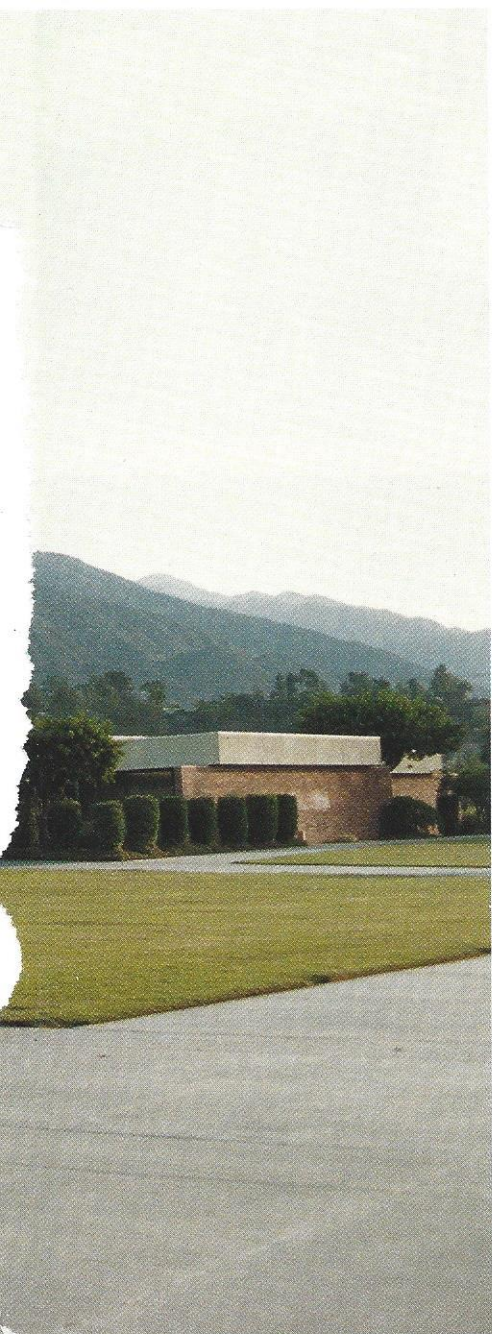
**ANN DRURY**

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# Seniors Find the True Meaning of "Yesterday"

"Yesterday" has, for many generations, been a badly misunderstood word. Just as the Beatles did, people have connected it with their longings for what was.

The Class of 1985 seems to be changing this.

As freshmen they organized a Jog-a-Thon which was far from the ordinary candy sale. As sophomores the Class of 1985 triumphed in the Spirit Week and organized "Computer Fun." As juniors they grew determined to make Pasadena High awesome. They began by selling pep buttons during the pep rallies and ended the year by introducing the MORP (backwards Prom) and turning it into one successful dance.

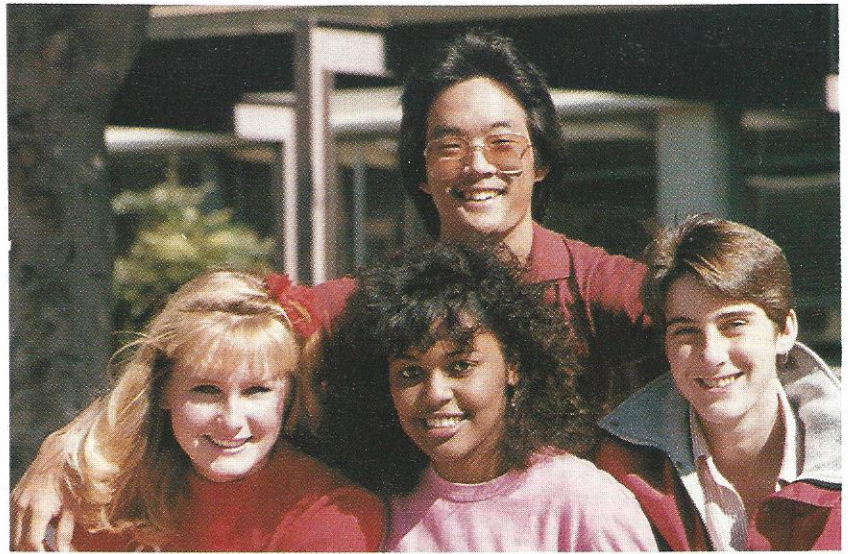
Finally, all the hard work paid off. The disappointments of the year, such as the closed campus, seemed to be more-than-made-up-for. The uniqueness of the year was first made evident by the new assembly procedure: the "National Anthem." As the band began to play, many students were speechless. Yet, as the assemblies grew in number, the audience found the lyrics and even discovered the key. But, this was only the start.

As an exciting final Homecoming Dance for the class of '85, the Pasadena Hilton hosted the night's activities, including the crowning of Cecelia Watkins as the homecoming queen. However, a question arose during the 1984-'85 Spirit Week: "If CeCe is the Queen, where, then, is the King?"

Well, the answer soon arrived on Friday, Nov. 9 on Senior Class decoration day; Bob's "Big Boy" came to the rescue. Bob (our newly found Homecoming King) stood proudly in center quad and subtly cleared things up.

The end of the year's glory arrived rather quickly. The Senior Prom at the prestigious Queen Mary outdid all expectations, and the glamour of the night brought the realization that the seniors were no longer school kids. It was time to graduate. From their success on campus, their life accomplishments should be even better.

Afterall, "Yesterday's" reputation is at stake.



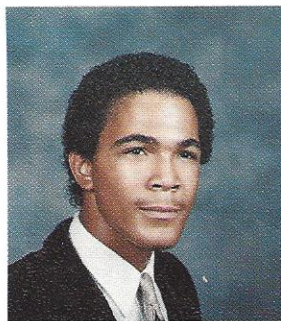




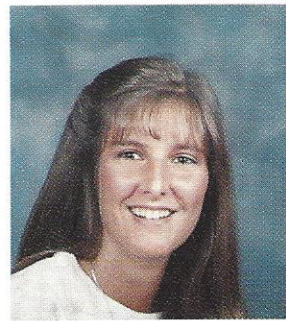
Holly Benson



Jeanne Bertirotti



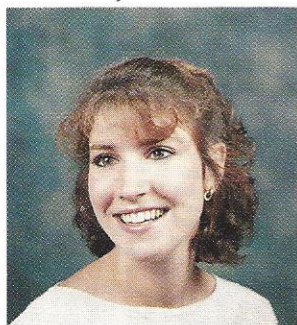
Maurice Bienvenue



Stephanie Biles



Crystal Bizzle



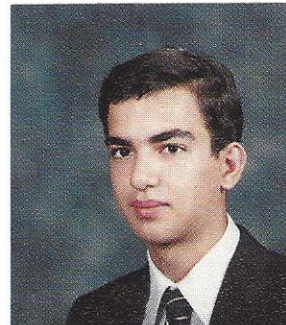
Anne Blackshaw



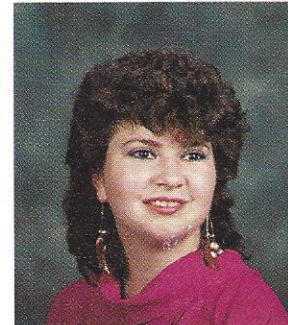
Angelique Blancas



Sedrick Blount



Armen Boldi



Perla Bonilla



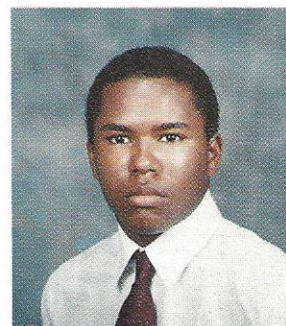
Talver Booth



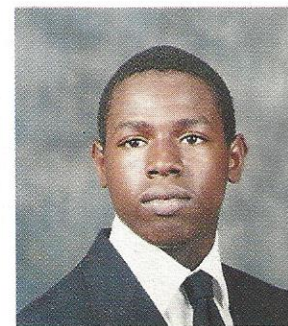
Jocelyn Boyd



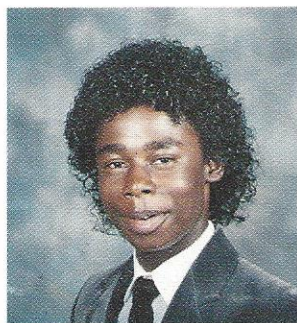
Katharine Brennen



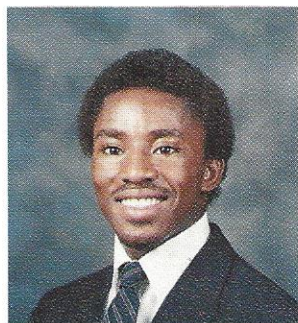
Jeffery Broughton



Edward Brown



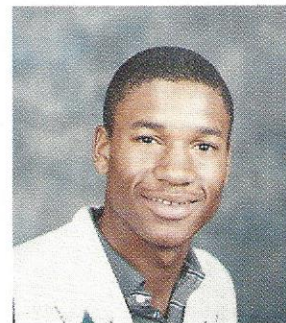
Larry Brown



Willie Brown



Gayle Bruno



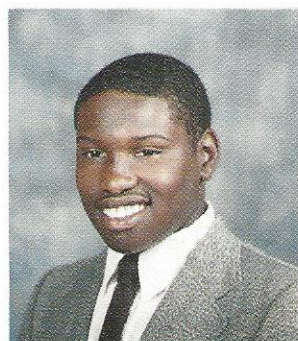
Tommy Bryant



Donna Buss



Trish Butler



Harold Byrd



Susanne Caltacci

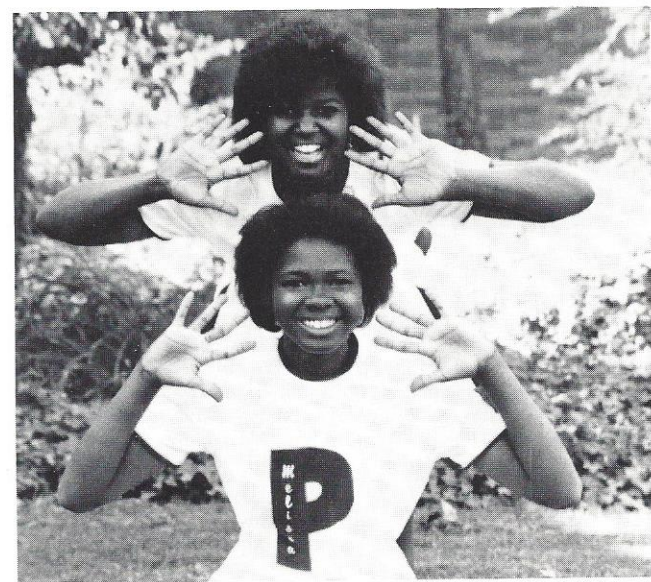
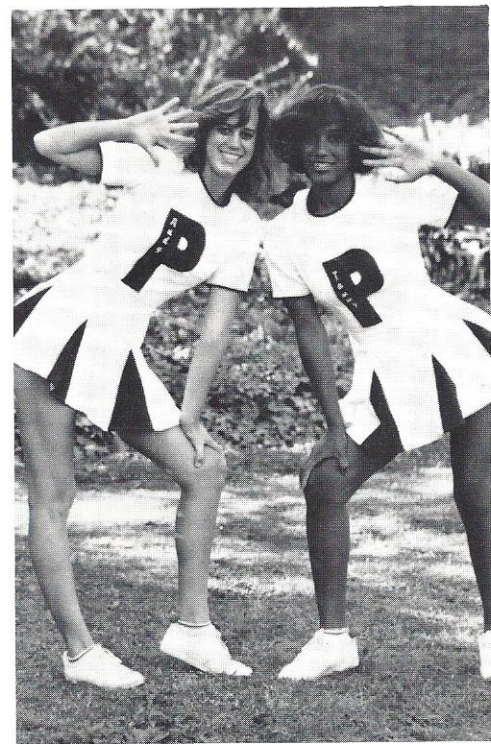


Veronica Camarillo

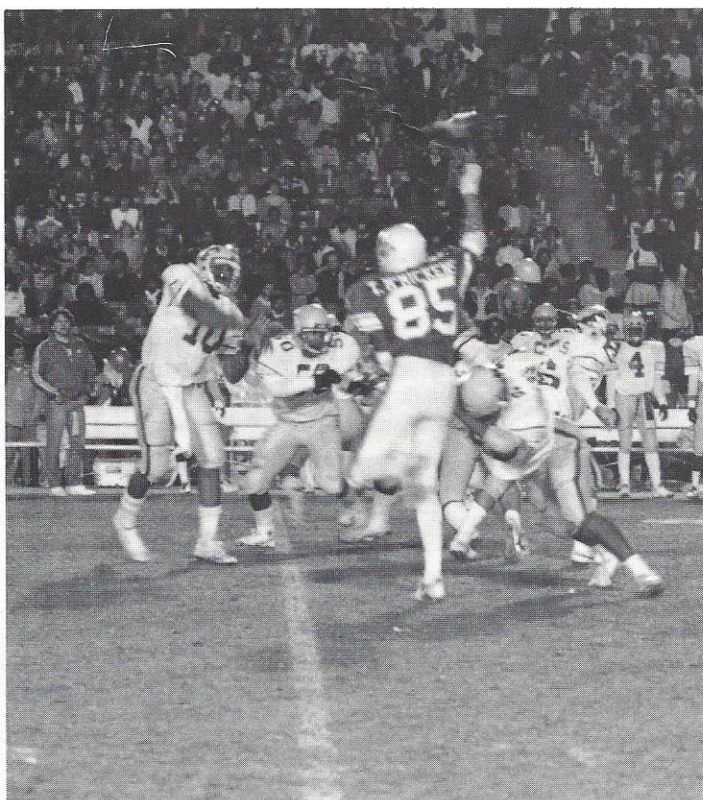
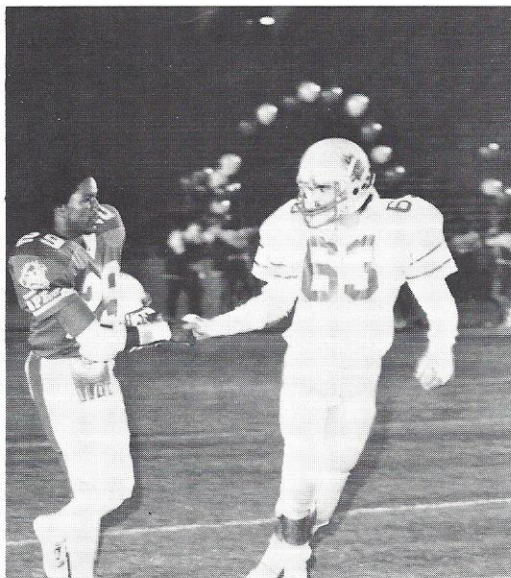
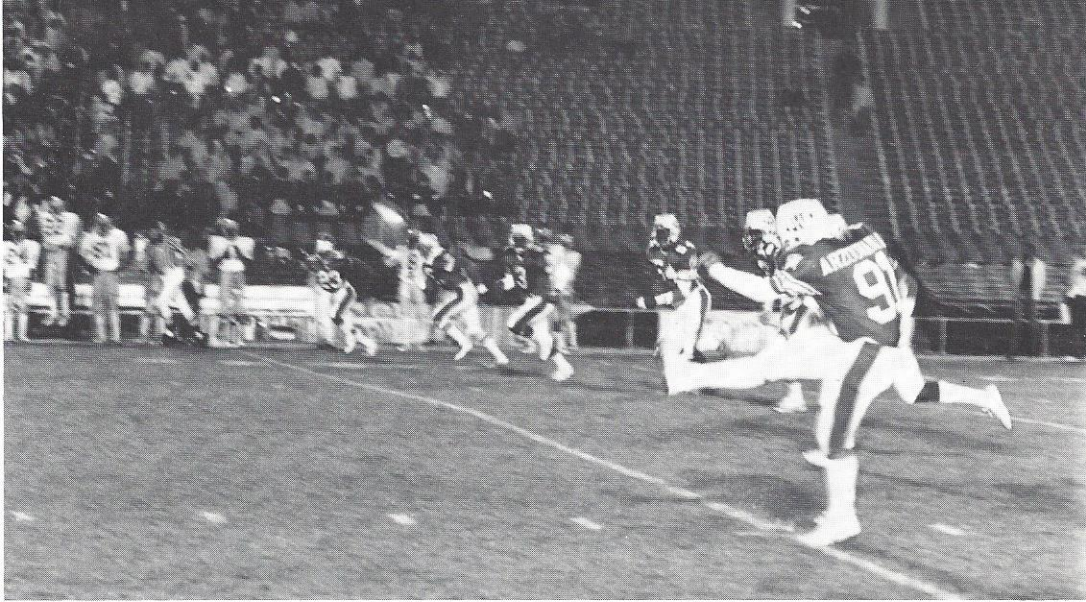


Susan Camden









TOP: Suren Arzoumanian leads the kick-off to begin the game. MIDDLE LEFT: Peter Harmon shakes hands with a Mustang player to show Bulldog sportsmanship. MIDDLE RIGHT: Kathie Brennen and Andrea Hull perform to "Jump" at the quarter break. BOTTOM RIGHT: Troy McMikens rushes Muir's quarterback in an attempt to block a pass. BOTTOM RIGHT: The 1984-'85 Homecoming Court is presented to the crowd before the game.



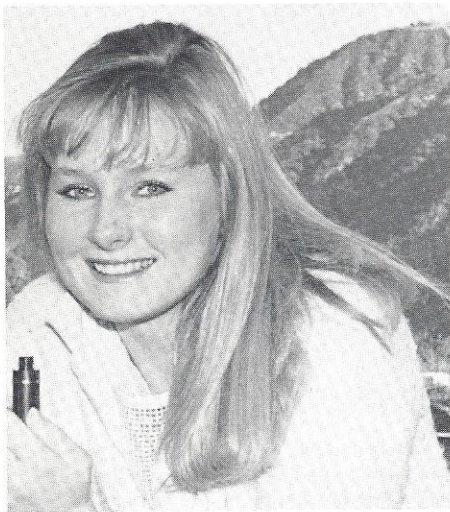
The Aurora and Key Club strived to make this year a memorable one by helping the school and community as much as possible.

The annual event this year for the Aurora was the Red Cross blood drive which took place once in each semester. The Aurora helped the Red Cross produce a very successful drive. Some of the girls also helped the Pasadena High Choral Music Department by being servers at the group's annual Christmase Feaste.

One of Key Club's highlights was the convention which was held in Fresno, California, in late April. The club also helped usher at a Dodger night in February. Helping prepare a Kiwanis club breakfast was another service Key Club was involved in.

The Key Club sweetheart, Jeane Kirsling, enjoyed her position very much. Besides going to the Key Club convention last year, she worked as an inter-club adviser, associating with all the Key Clubs in the area.

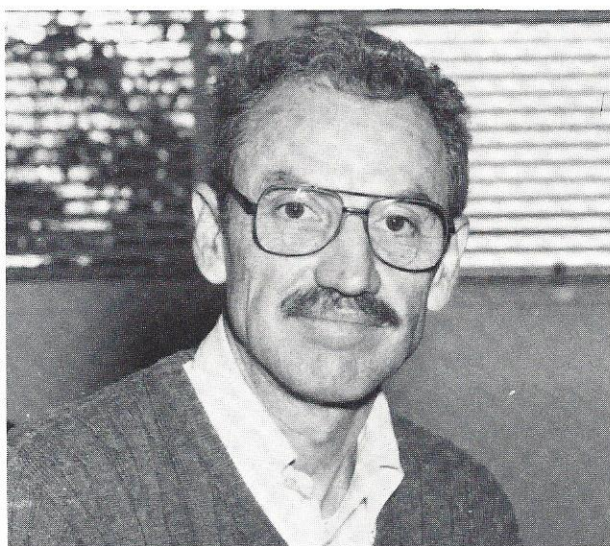
## Clubs Help School and Community



TOP: AURORA Bottom Row: Toinette Ross, Tammy Hill. Row 2: Sharon McGee, Elizabeth Ross, Susanne Caltacci, Liz Lansford, Holly Benson, Jennifer Davies, Cara Smith, Lisa Kodmer, Terry Fingerhut. Row 3: Niece Esteen, Andrea Tompkins, Dynise Basore, Angelique Blancas, Krystyn Haggins, Lynne Neubig, Cici Simon, Stephanie Kustner, Lori Matter. Row 4: Kathie Brennen, Claudia Garbaccio, Anne Blackshaw. MIDDLE LEFT: Aurora president Kathie Brennen. BOTTOM: AURORA OFFICERS Bottom Row: Anne Blackshaw, KCRAP; Angelique Blancas, treasurer; Krystyn Haggins, vice president. Row 2: Claudia Garbaccio, ASF president; Andrea Tompkins, membership; Cici Simon, parliamentarian; Sharon McGee, secretary.







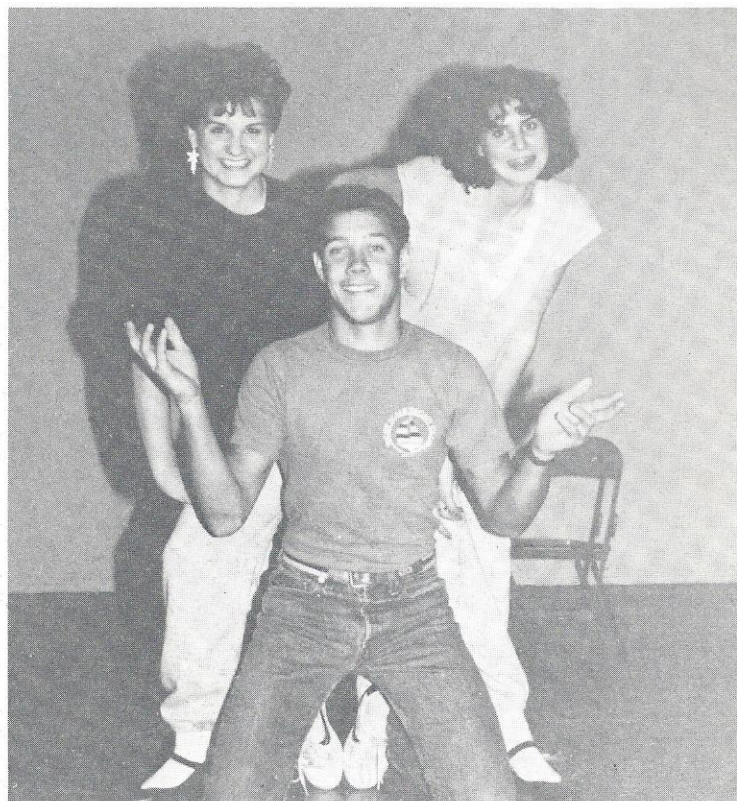
TOP: MODEL UNITED NATIONS Marquetta Covington, Alex Frakt, Damion Desai, Janet Bowen, Lee Barnathan, Armen Boldi, John Mitchell, Josh Kurutz. MIDDLE LEFT: MODEL UNITED NATIONS ADVISER, Floyd Konrad. MIDDLE RIGHT: Ann Drury, Cute Animaholics Club adviser; "Bubba Bear"; Pia Smith, president. BOTTOM: CUTE ANIMAHOLICS CLUB Bottom Row: Angelique Blancas, Angie Boothroyd, Andy Smith, Luz Ortiz. Row 2: Pia Smith. Row 3: Karen Afsharian, Brenda Weber, Toi Ross, Christine Gonsalves, Kathie Brennan, Ernie Marchain.





## "Cabaret"

*"What good is sitting alone in your room?  
Come hear the music play.  
Life is a Cabaret, old chum,  
Come to the Cabaret.  
Put down the knitting,  
The book and the broom,  
Time for a holiday.  
Life is a Cabaret, old chum,  
Come to the Cabaret.  
Come taste the wine, come hear the band.  
Come blow a horn, start celebrating:  
Right this way, your table's waiting.  
No use permitting some prophet of doom  
To wipe every smile away.  
Life is a Cabaret, old chum,  
Come to the Cabaret.  
Start by admitting from cradle to tomb  
Isn't that long a stay.  
Life is a Cabaret, old chum,  
Only a Cabaret, old chum,  
And I love a Cabaret!"\**



TOP: KIT KAT KLUB DANCERS (Sumi Siegel, Tina Miller, Angelique Blancas, Kathie Brennen, Amy Blackshaw, Leah Hunter, Stacey Laumann, Katy Heilemann, Tammy Hill, Kathy Norgord, Jenny Davies, Toby Tibbet) "Mama thinks I'm on a tour of Europe with a couple of my school chums and a lady chaperone. Mama doesn't even have an inkling that I left them all in Antwerp and I'm touring on my own!"\* MIDDLE LEFT: FRAULEIN SCHNEIDER (Terry Fingerhut) AND HERR SCHULTZ (Tony Vayos) "If you bought me diamonds, if you bought me pearls, if you bought me roses like some other gents might bring to other girls, it couldn't please me more than the gift I see. A pineapple for me!"\* MIDDLE LEFT: EMCEE (Ernie Marchain) AND TWO LADIES (Leah Hunter, Amy Blackshaw) "We switch partners daily to play as we please. Twosie beats onesie, but nothing beats threes!"\* BOTTOM: FRAULEIN KOST (Stephanie Biles) AND ERNST LUDWIG (Lee Vigue) "Oh fatherland, fatherland, show us the sign your children have waited to see. The morning will come when the world is mine. Tomorrow belongs to me!"\*

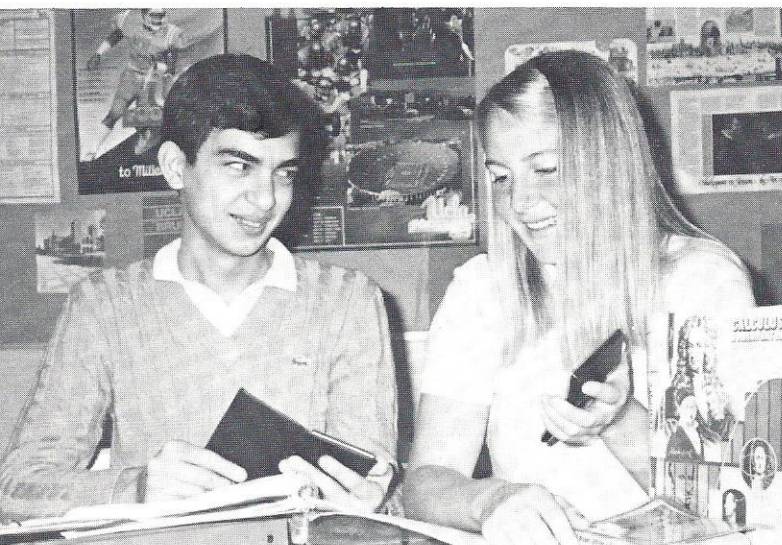
(\*Copyright-New York Times Music Corporation)





*Ernie Marchain*  
Deepest Eyes

*Kathie Brennen*  
Sparkliest Eyes



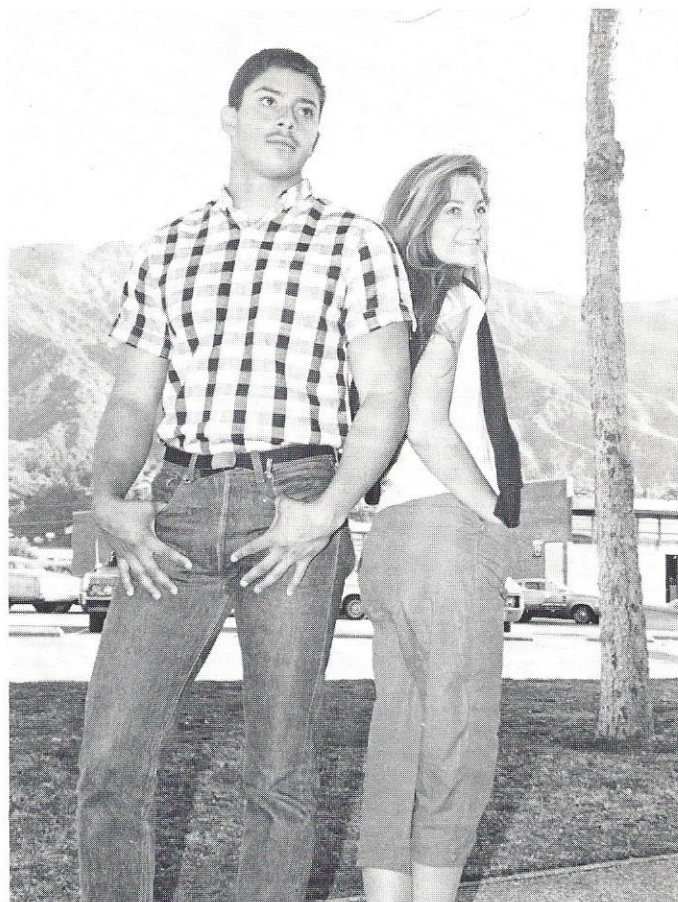
*Armen Boldi*  
Einstein

*Elizabeth Ross*  
Madame Curie



*Michael Koemans*  
Most Melting Smile

*Krystyn Haggins*  
Sweetest Smile



*Loy McBride*  
Stud of Campus

*CeCe Watkins*  
Closest-to-"10"



*Nichole Welsh*  
Most Luminous Hair

*Dennis Chick*  
Best Groomed Hair



Kathie Brenner -  
"Swallow all  
your tears, and  
put on your love  
you can never win or  
lose the  
race." the  
psychadelic  
flurs

JOSH KURUTZ -  
"THERE IS NO  
MATTER, ONLY ENERGY."

Jeane Kirsling -  
"I love tight buns in 50's"

R.O.  
T.Y.

Andrea Tompkins -  
"Hey - LET'S PARTY!"

ARMEN BOLDI -  
"B.S., THE TRADE-  
MARK OF SUCCESS."

TOUETTE ROSS -  
"TO KNOW ME IS TO  
LOVE ME!"

BOB ROSE:  
"Always remember=  
wherever you  
go - THERE  
YOU ARE!"

ANNIE BLACKSHAW:  
"FUN: AT ANY  
COST!"

ERIC SHADRICK:  
"WHAT IT BE  
LIKE?"

The ones in '85 were  
definitely a mess, the  
underclassmen are worse -  
they're scandalous.

-Roshun MURPHY

Angelique Blancas -

"A lobu!"  
R.J.F. = ♡

"T.Y. T.Y. T.Y."  
Pickly Gump.

Sharon McGee: "Patience  
is a virtue that  
carries a lot of  
WAIT!"

RAD HAD

Luz ORTIZ:  
"THE ART OF LOSING ISN'T  
JERK THAT FILLED  
WITH LOSS IS THE  
DISASTER."

Bill Hanley -  
"remember  
always  
the penguin."

pia smith -  
"like,  
y'know."

Brad Silverman -  
"make this year come  
to life and good  
things will come our way."

Kathie  
+ Mike

Elizabeth Bishop

KEITH NOUYE -  
"PSYCHI!"







## Yearbook Goes Crazy!!

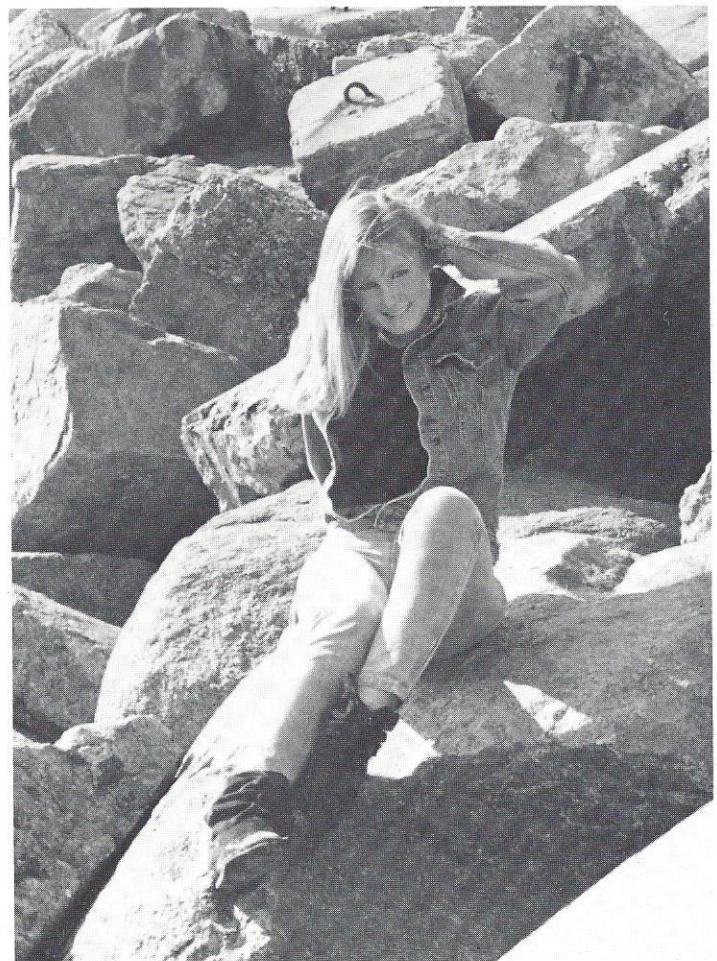
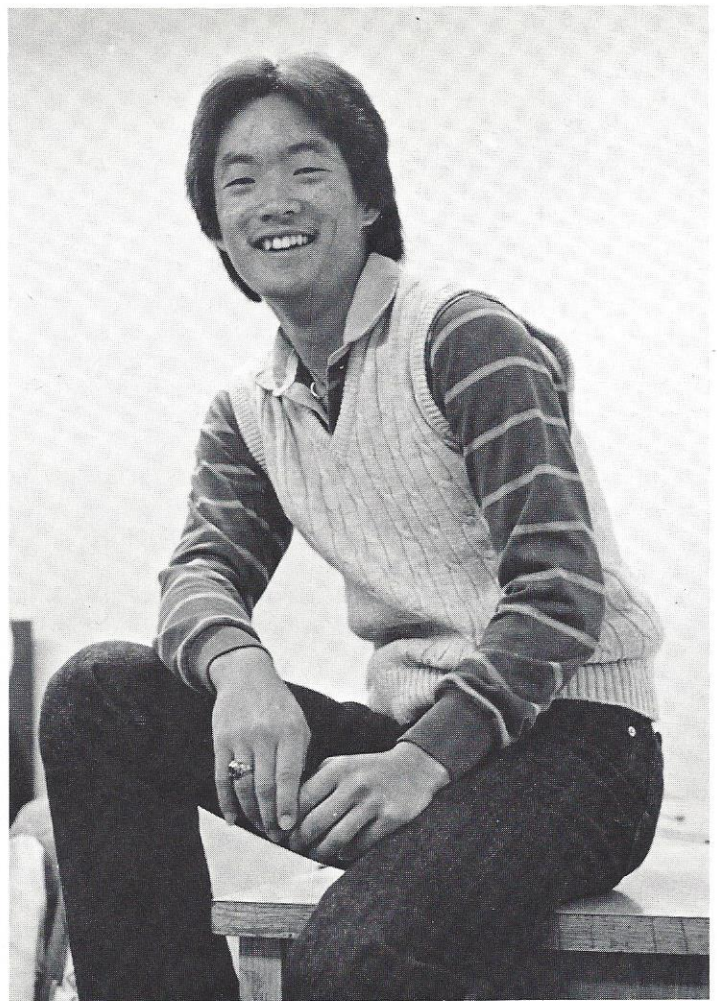
The 1984-'85 yearbook staff worked very hard to put together a fine annual. Not only did they work hard, but a certain comradery was formed to make the staff work even harder while still having fun putting the book together.

I'll never forget the first couple of weeks of the year. I was so eager to get the yearbook going. My staff and I debated heavily over the theme and came up with "Let's Go Crazy."

That's exactly what happened to us during the year. We went crazy meeting deadlines and more deadlines until we couldn't stand it any more. I was having a nervous breakdown, and we all were getting weary of A.D. saying, "I know I saw that picture somewhere!" But we prevailed and the yearbook was completed.

Taking at least a week off of school to catch up on all the sleep we missed staying up all night at A.D.'s house finishing the last deadline would have been in order. We spent the rest of the year doing what we do best ... GOING CRAZY!

*Ricky Oyama*



TOP: Editor in Chief, Ricky Oyama, laughs at adviser Ann Drury who blurts, "Our yearbook won't be ready 'til July!" BOTTOM LEFT: Luz Ortiz, business manager, basks in the sun's rays to subdue the windy chill. BOTTOM RIGHT: Associate Editor, Kathie Brennen, takes time out from her arduous duties to let her hair down.



PASADENA HIGH SCHOOL

proudly presents

Music & Lyrics: John Kander & Fred Ebb

Production & Musical Direction

*Carolyn Shannon*

Direction & Choreography

*Cassandra Renzetti*

Associate Choreographer

*Alexandra Gaffney*

Set & Technical Direction

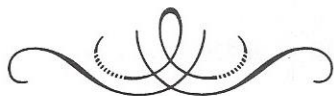
*Ed Jucksch*

Orchestra

*James Arnwine*

\*Cabaret is presented through special  
arrangement with

Tams-Witmark Music Library, Inc.  
757 Third Ave., New York, N.Y. 10017



# C A B A R E T\*





# CAST



(in order of appearance)

MASTER OF CEREMONIES (Emcee) - Ernie Marchain

GIRL ORCHESTRA - Dwight Ashberry, drum; Janet Bowen, Tromb.;

Angelissa Kozelchik, Piano; Lanae Merseburgh, sax

KIT KAT GIRLS: - Amy Blackshaw, Angelique Blancas, Kathie

Brennen, Jennifer Davies, Katy Heileman, Tammy Hill,

Leah Hunter, Stacey Laumann, Tina Miller, Kathy Norgord,

Cedrina Roland, Sumi Siegel, Toby Tibbet

TWO LADIES - Amy Blackshaw, Leah Hunter

WAITERS - Lanny Alexander, Esteban Ch. Felix, Ariel

Fischer, William Hanley, Michael Harden, Mark Marquez,

Bob Rose, Juan Ybarra

CLIFFORD BRADSHAW - Chris Biles

ERNST LUDWIG - Lee Vigue

CUSTOMS OFFICERS - William Hanley, Mike Harden

FRAULEIN SCHNEIDER - Terry Fingerhut

FRAULEIN KOST - Stephanie Biles

HERR SCHULTZ - Tony Vayos

SALLY BOWLES - Anne Blackshaw

TELEPHONE GIRLS - Patti Fernandez, Katy Heileman, Stacey

Laumann, Angelissa Kozelchik

MAITRE D' - Shahe' Mankerian

MAX - Robert Hohertz; Shahe' Mankerian

TELEPHONE MEN - Matt Conner, Michael Harden, Kraig

Pakulski, Bob Rose, Juan Ybarra

BARTENDER - Matt Conner

GERMAN SAILORS: - Daniel Cormier, Esteban Ch. Felix, Mark

Marquez, Bob Rose, Juan Ybarra

TAXI MAN - Bob Rose

CHORUS/DANCERS:

Eddie Abrams

Julie Auld

Paula Cacciotti

Alisa Congdon

Cheri Donato

Patti Fernandez

Robert Gibson

Melissa Gilkes

Danielle Goodwin

Robert Hohertz

Angelissa Kozelchik

Max Kozelchik

Marie McNamara

Kraig Pakulski

Jimmy Rose

Pete Salvaterra

Cyndi Smith

Lisa Smith

Andrea Thompkins

Alex Young

CeCe Watkins

Nadia Zedan



**"Enter Laughing"**  
by Joseph Stein  
adapted from the novel by Carl Reiner

New York, sometime in the late Spring of the mid-1930s.

**Act I**

Scene 1: Afternoon in Foreman's Machine Shop  
Scene 2: LaTesh Hats, later that day  
Scene 3: The Marlowe Theatre, that evening  
Scene 4: A phone booth, later that evening  
Scene 5: Angela's dressing room, that night  
Scene 6: The Kolowitz' home, late that night  
Scene 7: Foreman's shop, next morning  
Scene 8: A milk bar, that afternoon  
Scene 9: Foreman's shop, later  
Scene 10: The Marlowe Theatre, even later

There will be one fifteen-minute interval.

**Act II**

Scene 1: Marlowe Theatre, following  
Scene 2: A cemetery, that night  
Scene 3: The Kolowitz', next morning  
Scene 4: Foreman's shop, that afternoon  
Scene 5: David's dressing room, that evening  
Scene 6: The stage of the Marlowe Theatre  
Scene 7: The stage, immediately following

The original "Enter Laughing," a Morton Gottlieb production, opened at Henry Miller's Theatre in New York, on March 13, 1963, under the direction of Gene Saks.

*The Revelle Players*

*present*

**"ENTER LAUGHING"**

**A Tolchin Production**

**DIRECTED BY**

**Randolf S. Mendelsohn**



## Cast

(in order of appearance)

Mr. Foreman  
David Kolowitz  
Marvin  
Miss B.  
Pike  
Dawn Baxter  
Don Darwin/Lawyer  
Marlowe  
Angela  
Mother  
Father  
Wanda  
Waitress  
Roger

Charlie Kim  
Ivan Krim  
Scott Kessler  
Julie Lambert  
Shawn Hanley  
Judene Lewandowski  
Donald Hewitt  
Danamichele Brennen  
Lisa Welti  
Barbara Stearns  
Randolf Mendelsohn  
Kathleen Lafferty  
Judene Lewandowski  
Donald Hewitt

## A Note From The Director

Many of us reach a point in our lives when we must decide our fate. We must choose between risking failure while pursuing our seemingly ridiculous dreams or settling for a less attractive, yet secure, alternative. What type of "something" we are to be is usually a tremendously difficult decision. A few of us actually achieve our childhood dreams.

We are trained to settle, dissuaded by the practical elements of society into lowering our goals so that we may ensure our success. "Enter Laughing" is a parody of such a situation. The protagonist, David, is faced with tremendous obstacles in the quest achieve his goals. David, however, does not lose hope; he triumphs over tremendous adversity to become the "something" that he feels is worthwhile. I applaud David for the bravery and persistence which enable him to succeed.

Feel free to enjoy the show.

Love,  
Randolf Mendelsohn

## Production Staff

Production Mgr.  
Stage Mgr.  
Asst. Stage Mgr.  
Scenic Design Assts.

Master Lighting Technician  
Lighting Apprentice  
Craftsperson  
Key Grip  
Prop Boy  
Grips  
Pianist  
Scenic Advisor  
Lighting Advisor  
Directorial Advisor

Geoffrey Tolchin  
Janet Beach  
Lara Wright  
Matt Eilerman,  
Sandro Klein  
Mark Sell  
Eri Ogawa  
Susie Williams  
David Shinmei  
Robert Mirviss  
Robert Mirviss, David Fohrman  
Judene Lewandowski  
Roger Sherman  
Charles Craun  
Ralph Janes

## A Note From The Producer

When I considered taking on this project last December, I was a little skeptical about the outcome; there was *so much* to do and *so little time* in which to do it all. But where I was skeptical, most other people were defeatist. "It's too late! It can't be done!" they'd say, and list all of the reasons why. Well, my company and I shared a different opinion. Truly, we have encountered more debacles in the making of this show than in the past three years. But you see, the theatre is like no other medium in the arts; the theatre is *magic*. With the theatre (and a little will power), you can make the impossible happen.

I'd like to take this opportunity to thank you, the audience, for playing such a big part in our little feat of legerdemesne, and to thank my company for being such consummate magicians.

Geoff Tolchin



ME19abc  
Brennen

Option: 5 Ae 1 AM 2 Eng 26 E&AS

Year: 4 So 24 Jr 4 Sr

Grade: Mean 3.32 Std.Dev. 0.48  
0 P 0 E 0 I

	Mean	Std.Dev.
Hrs/wk	7.33	2.05
%lectures	89.6	12.5
%H.W.	98.0	6.27

Course:	Mean	Std.Dev.	Lectures:	Mean	Std.Dev.
---------	------	----------	-----------	------	----------

Q1	4.38	0.81	Q1	6.55	0.50
Q2	5.97	0.62	Q2	6.55	0.61
Q3	3.93	1.75	Q3	6.79	0.41
Q4	6.23	0.69	Q4	6.64	0.59
Q5	4.8	1.25	Q5	6.64	0.48
Q6	6.30	0.60	Q6	6.18	0.68
Q7	6.27	0.68	Q7	6.69	0.46

Comments: HW AND EXAMS REQUIRED THOUGHT BUT WEREN'T DIFFICULT  
INSTRUCTOR WAS VERY SYMPATHETIC AND LENIENT WITH  
EXTENSIONS  
TEXT WAS UNNECESSARY  
LECTURE NOTES WERE SUFFICIENT FOR CLASS  
PRACTICAL APPLICATIONS OF TOPICS WERE ALWAYS GIVEN  
INSTRUCTOR WAS EXCELLENT  
BRENNEN IS A VERITABLE FLUID DYNAMIC GOD"

1985  
TQIR



Editors Note: We realize St. Patrick's Day  
is a month away, but the sentiments  
of the card are particularly appropriate.

Thanks for all the  
good times. Looking forward  
to more

*[Signature]*

Chris -  
Thanks for the  
support, the long hours,  
and... the friendship.

*[Signature]*

Chris -  
Couldn't have asked for  
a better MOSH to be  
on INC with. You're a  
great guy - almost enough  
to make me want to become  
an ME.

*[Signature]*

Chris -  
Thanks for all the help  
and guidance. It was great  
working with you.

*[Signature]*

...BECAUSE <sup>We (JOS)</sup> I HAD  
THE LUCK OF THE IRISH  
WHEN <sup>We</sup> I MET YOU!

2/3  
to work with  
to have such a Great Mosh  
experience - it was great  
I was fun and a learning  
Thanks a lot Chris - being

Thank you for all the help,  
guidance, and encouragement.

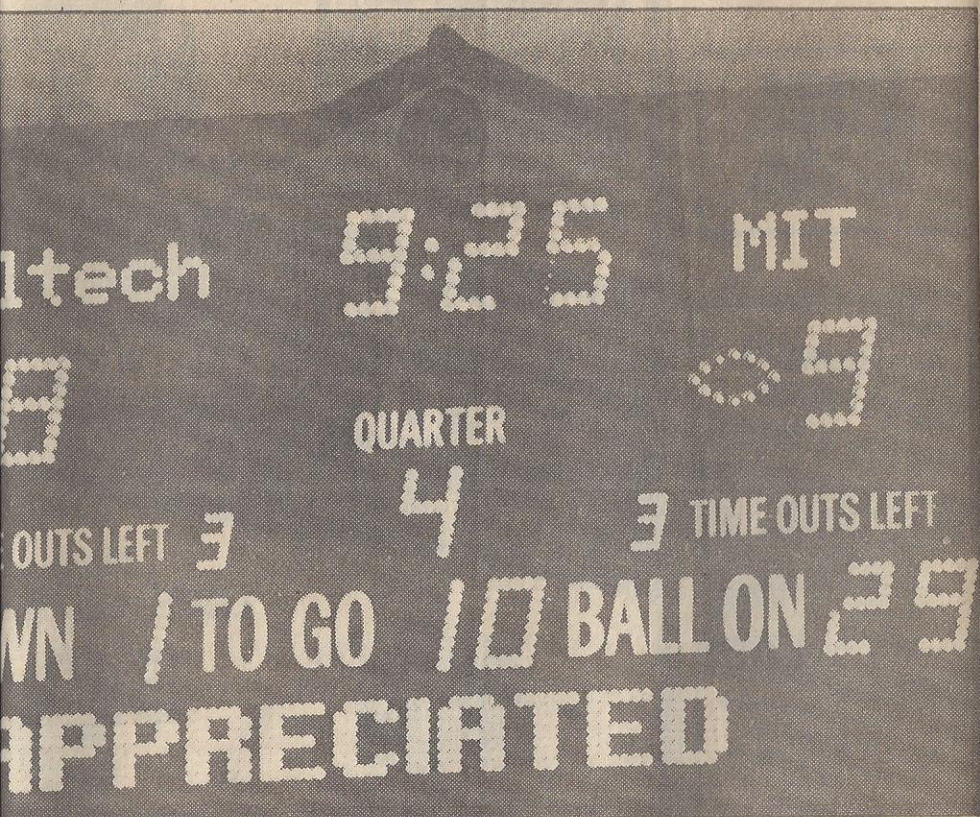
*[Signature]*

😊 enjoyable experience  
you're a Great MOSH. *[Signature]*

Happy St. Patrick's Day!

With your job you need  
the luck of the Irish, we really  
appreciate you being here.  
*[Signature]*





VINCE CAMPAGNONE / Los Angeles Times

Caltech sabotaged the Rose Bowl scoreboard in stunt Monday at Pasadena.

# Caltech at It Again

## Credit Beavers for Sabotaging Rose Bowl Scoreboard

In the fourth quarter, UCLA was leading Illinois, 38-9, but the scoreboard read: Caltech 38, MIT 9.

In another Rose Bowl prank, the geniuses of Caltech struck again. In 1961, they took over the card stunts during the Washington-Minnesota game. This time, they took over the scoreboard.

Earlier Monday, they flashed other messages on the board, including, Go CIT! (California Institute of Technology), and a matrix picture of an arrow pointing to two beavers, the Caltech mascot. Later, they had planned to flash 1984 Beaver Bowl, but the scoreboard was turned off with four minutes left in the game.

Virgil Lubberden, manager of the Rose Bowl game, said there wasn't enough time to get re-control of the scoreboard.

"They had shorted out one of the scoreboards," he said. "We would have had to send somebody up into the scoreboards to fix them."

Of the whole affair, he said: "It was just a prank. They'll do it every time."

Although it was a prank, it also was serious

business. The project took about 15 months, said some of the 15 Caltech students who worked on it. They will get class credit.

Ted Williams, a Caltech senior majoring in physics, said they took control of the scoreboard by radio control, using two microprocessors that were controlled from a vantage point about two miles away.

"We had the ability to send both text and pictures," Williams said.

He added: "Pranks at Caltech always start with an idea, and somebody decides if they are worth the magnitude that we could get class credit for them."

In 1961, Caltech students sabotaged the Washington card tricks. When a Washington spell was called for, it came out Washington spelled backward. The next time it was called for, instead of Washington, the cards spelled out Caltech.

Times columnist Jack Smith, recalling this in his Monday column, wrote: "I suppose it can happen again. Security is so good these days."

"But don't count on it."



# Jack Smith

It was 23 years ago today, on Jan. 2, 1961, that the greatest collegiate prank in history was brought off by Caltech undergraduates at half time during the Rose Bowl football game.

Of course Caltech wasn't *playing* in the game. Not likely; the Beavers had lost every game on their schedule that season. It was the Washington Huskies against the Minnesota Gophers, and at half time the Husky rooting section was to entertain 50,000 spectators on the Gopher side of the stadium—plus an audience of 30 million on national television—with a series of elaborate card stunts.

What may be the only authentic story of what happened to that plan is told in "Legends of Caltech," a vivid memoir of Caltech pranks and hoaxes as recalled by their perpetrators and published by the Caltech Alumni Assn. (\$9 at the campus bookstore).

★

The book is divided into Epoch 1 (1920-1945), when the institute was new, money was scarce, and technology was rudimentary—"We added and subtracted numbers the hard way;" Epoch 2 (1946-1969), the postwar era, with its growth, and loss of innocence; and Epoch 3 (1970-1983), when the institute was exhilarated by two revolutions—women students and microprocessors.

The highlight of Epoch 1, it seems to me, was the affair called "Model T in Ricketts, Room 49," in which 19 men from Ricketts House (and one from Dabney) installed a *running* Model T Ford in the room of a fellow

resident one Saturday night while he was out on a heavy date.

First they bought the Model T (a 1923 roadster) for \$10, each of the 19 Ricketts men giving 50 cents. (Being 50 cents short, they had to bring in the Dabney man.) They dismantled the car outside the house, and when their mark left his room for the heavy date, they moved it in, upstairs and through a narrow door, axles first. Then they reassembled it.

It wouldn't start. Time was growing short. Bob Poindexter, a known Model T genius, was sent for. He happened to be attending a formal hop at Dabney House.

## *Though their football was not wreckers from Caltech put*

He arrived on the scene in his tux, his girl with him in her formal. In 10 minutes he got the engine started.

A line was attached to the throttle lever and dropped through the open window to the culprits below. At 1 o'clock the victim returned. The lever was yanked to full throttle.

"The memorable thing," the narrator recalls, "is what the victim shouted over the roar—'Where is my bed!'"

My favorite of that era, though, concerns the concrete mixer that was "spirited away" one weekend from a construction project across the street from Caltech, disassembled, and reassembled on the second floor of Fleming House. What I like is the insouciant answer of

one of the Fleming students Monday morning when the contractor complained that someone had stolen his cement mixer. "I have an *extra* cement mixer," he said helpfully.

More of a silent protest than a prank was the response of the men of Dabney House when the legendary Dr. Donald S. Clark, then faculty resident, laid down a house rule that students must wear coats and ties to dinner. The first night they did; but no pants. Dr. Clark reacted with silence and composure, which is why he is legendary.

In Epoch 3, though it involved neither women nor

complicated to explain here; but in brief, this is what happened:

The Washington band and cheerleaders were dormitoried at Cal State Long Beach. One of the Caltech group, a freshman, posed as a high school newspaper reporter and flattered the head cheerleader into explaining how the stunts worked. He learned that each of the 3,232 Husky rooters was given a stack of cardboard squares in various colors and a card of numbered instructions. The cheerleader controlled the stunts by calling out instructions from a master sheet over a loudspeaker.

While the band was at dinner that night the Techers picked the lock and "borrowed" an instruction card. A local printer made 2,232 copies of it. New Year's Eve, while the band was at Disneyland, the Techers "borrowed" the master plan, took it back to Lloyd House, and, working on the dining room tables during a New Year's Eve party, altered the 2,232 cards to achieve their purposes.

★

Thus, at half time during the big game, the card stunts started out as planned. Most of them were untouched. No one suspected anything. But when they did their mascot, strangely it looked more like a beaver than a husky. And when they did WASHINGTON it was spelled backward. What could be happening? The cheerleader tried one more. It came out fine—black block letters on white: CALTECH.

That did it. The cheerleader aborted the show and the band marched off the field.

I suppose it can't ever happen again. Security is too good these days.

But don't count on it.

## *memorable, those rambling called some classic pranks*

high tech, the classic was The Disappearing Room. It happened to a freshman who was foolish enough to leave for a week to visit a girlfriend upstate.

Spurred on by the victim's notorious paranoia about his sanctum, his house fellows removed everything, stuffed the room to the ceiling with balled-up computer paper, replaced the door with plywood, plastered it over, moved the nearby wall lamp to where the door had been, and painted the entire wall. The freshman returned on Sunday at midnight. I will let you imagine what happened.

The great card-stunt prank was masterminded and executed by a cadre of 14 Lloyd House men. It is too



# Jim Murray

## The Computers Are in Control—and They Call This Progress

**I hate to admit it**, but I guess I must be getting old. Oh, I don't mean the obvious things like loss of equilibrium, teeth, hair, hearing, wishing the night wasn't so dark or that people would speak up instead of mumbling.

It's the little things. I find myself siding with authority. I get so irritated with "newspeak" and buzzword English that I find myself talking back to the television screen when talk-show guests prate about "commitment" and "making a statement."

I don't know why music groups can't call themselves The Band of Renown instead of some of those Hall of Horrors sobriquets they pick. I struggle to read book reviews that seem to begin in the middle and go off in every direction but straight ahead. I feel that I'm loose in a field of distortion, as if the world is a fun-house mirror and I'm Alice.

Sound like old age to you? You're probably right.

But nowhere am I more out of step with our life and times than I am in the Great Rose Bowl Caper of 1984. You know the particulars. A couple of waggish Caltech seniors, Dan Kegel and Ted Williams, took over the scoreboard in the waning minutes of the Illinois-UCLA game and flashed the score as MIT-Caltech, complete with scurrying beavers and other animated flashes of misinformation.

□

**Friends called me in great merriment.** "Right up your alley, kid," they assured me. Funn-ee. Don't-you-love-it?! I mean, giving it to all those pompous white-suit types from the Tournament of Roses committee. Showing up those clumsy athletes. Putting bowl games in proper perspective. Two kids in glasses making monkeys out of tribal rites, trivializing a sacred ceremonial celebration. Nothing like it since the Stanford band showed up without socks.

It was in the best tradition of good old American pranksterism. These guys are cards.

Student high jinks are nothing new. Wasn't this just a form of painting the Trojan statue, rearranging the card stunts, kidnaping the rival's mascot, toilet-papering the rival student union, stealing the game trophy? Anyway, wasn't it a triumph of intellect over muscle, brain over brawn, let's-see-you-spike-this-in-the-end-zone, hot-shot?

Like I say, I'm getting old. The whole scenario makes me nervous. And I think I know what it is. What it is is that this is a perfect curtain-raiser for 1984, all right. This is not a triumph of mischievous undergraduates; this is a triumph of machines. This wasn't two kids with a paint brush; this was a microprocessor commanded by remote control. This was assault by computer, which is not exactly painting mustaches on pictures of the homecoming queen.

**Please see MURRAY, Page 14**

Larry Fri  
the ball



# MURRAY

Continued from Page 1

What really kind of set me off was the word that the students were going to get course credit for their stunt. Now, that boggles the mind. I mean, what do you get if you plug into a bank's computers and siphon off a few mill? Valedictorian?

Well, that's what old age does to you. Practical jokes are as old as the Pilgrims, as American as Huckleberry Finn. Twenty years from now, nobody will remember the score of the 1984 Rose Bowl game or that UCLA won an astonishing victory. For those of you who didn't see the scoreboard for the last six minutes of the game, the final score was 45-9.

But I'm not prepared to make a federal case out of it. Because, as I was writing this column on my computer, I reached down to check a spelling—and when I looked up my story had gone! Just vanished. Went to that Great Word Processor In The Sky. I never got it back. This is a rewrite. That is the first time I have lost a story since I tripped over a cord in the press box at the World Series.

Now, one of two things has happened: Either the computer has begun to censor my stories and reject anything critical of computers or Caltech. Or there are two Whiz Kids sitting in a tree a mile from my house flashing commands to my computer like "Destroy!" or "Reprocess and delete any unkind-to-computers material."

Either way, I'm glad I'm growing old. I mean, today the Rose Bowl, tomorrow the world.



# Tricky Caltech (and computer) outduel officials

By LAURA NICHOLSON  
Staff Writer

Caltech scored a stunning victory in the Rose Bowl Monday as the final minutes of the annual football game ticked away.

Say what?

Yes, indeed, with 9:26 to go in the fourth quarter the scoreboard said it all. Caltech, 38. MIT, 9.

At the end of the game Rose Bowl officials knew only that unknown pranksters had linked a personal computer to the scoreboard giving them full control of the system. That left Caltech and MIT on the scoreboard rather than that of the actual participants, UCLA and Illinois.

In addition, Caltech gave itself the glory of winning the coveted Rose Bowl title.

"We had a little television. We were in the hills at the side (of the bowl.) It was radio controlled," said Scott Carlyn, a sophomore at the institute who insisted his role in the shenanigans was minor.

The game should have ended with the message, "Thank you for coming to the 1984 Beaver Bowl," but Rose Bowl officials turned off the scoreboard, said Ted Williams, a senior at Caltech who admitted planning the stunt with senior Dan Kagel.

The beaver is the mascot of Caltech.

Jim Muldoon, media director of the Rose Bowl game, said the students' prank blew the circuitry on the system, plunging it into darkness.

But that couldn't have happened, Williams insisted, since the microprocessor installed in the bowl was still operating and accepting instructions. The microprocessor, which Williams described only as portable, was built specifically for this event during the past three months.

The students at Caltech have a longstanding tradition of trying

to interrupt Rose Bowl activities with tributes to themselves. In 1982 and 1983 students attempted to bury balloons in the game field that would inflate and carry away streamers immortalizing Caltech. They did not succeed.

They succeeded this year but officials did not know how the perpetrators obtained the only computer program that operated the scoreboard, said Lee Sampson, press box supervisor.

"I don't think it's going to be that serious," said Muldoon. "They always try something. Sometimes they are foiled. Sometimes they're not. Obviously, Caltech won this one."

The six to seven students involved planned the event for 15 months, Carlyn said. It started with gaining access to the Rose Bowl then entering the place more than five times to splice a personal computer into the Rose Bowl system, Carlyn said.

The group had hoped to have the stunt ready for the Super Bowl Jan. 30, 1983 but were not prepared for the elaborate stunt.

Messages flashed on the board throughout the game but did not get much response so the team names were changed, Williams said.

Officials had no control of the scoreboard, Muldoon conceded.

"Caltech, I think it is safe to say, has finally made it into the Rose Bowl the only way possible," said Dennis Meredith, head of the university's news bureau.

The school operates on an honors system whereby tricksters limit themselves to pranks that will not harm anyone or anything, Meredith said.

This year's fete ranks with the 1961 incident in which students were able to obtain the plans for an elaborate Washington Huskies card show. The husky mascot ended up looking like a Caltech beaver and the words Washington spelled out as Caltech.



# Sweet-and-Sour Technology

The public prosecutor in Pasadena has decided to take two Caltech students to court for what they did to the Rose Bowl scoreboard during the game on Jan. 2, a decision that may say more about the city's sense of humor than about its concept of law and order.

Police said that they were obligated to investigate even if the manipulation of the scoreboard was perceived as a prank, because there was evidence that the law was violated when the students broke into the stadium. And the police say that there was a potential for worse had the equipment installed by the students been mistaken for a terrorist bomb and panic had ensued.

We are not persuaded. But, then, we have no

notion of the workload of either the Pasadena prosecutor or the police. Crime enforcement is a highly selective business in which deterrence is the ruling factor. Not every car exceeding the 55-m.p.h. speed limit is pursued. We have a feeling that the genius behind this exercise in good-natured, harmless computer electronics skulduggery should be encouraged, not deterred. It was about the most exciting thing that happened in the stadium that afternoon.

One of the conspirators acknowledged that they may have themselves to blame for the pickle that the prosecutor has put them in. "After trespassing on somebody's property, don't go on television and talk about it," he said.

## *Pranksters Tell How They Scored*

# Pasadena to Prosecute Caltech's Rose Bowl Team

By LEE DEMBART, *Times Science Writer*

The city of Pasadena intends to file trespassing and malicious mischief charges against the two Caltech seniors who took over the scoreboards at the Rose Bowl on Jan. 2, the city prosecutor said Friday.

"It would be normal to prosecute such an incident," Prosecutor Michael R. Murnane said. "From the preliminary information that I have, there were several clear-cut violations of law involved in this case."

The prosecutor noted in an interview that there was precedent for such a charge. He said that in 1981, four Caltech students had attempted unsuccessfully to launch a helium balloon during the Rose Bowl and were subsequently charged with trespassing, to which they pleaded guilty.

"While there is naturally some admiration for the extra work, as long as the law was violated, we assume that they were willing to take the risk and the consequences for their actions," he said of the latest pranksters.

The highlight of the stunt this year came during the last quarter of the game when the students, using a small Epson computer on a nearby hilltop to command an 8086 microprocessor planted under the press box, changed the scoreboards to show Caltech trouncing rival MIT rather than UCLA defeating Illinois, the actual contestants.

A few minutes later, the stymied stadium operators switched off the scoreboards completely, preventing the Caltech students from flashing

Please see PASADENA, Page 24



# PASADENA: Prankster Prosecution

Continued from Page 1

their last message, "Caltech 2 Rose Bowl 0," a reference to a 1961 stunt that played havoc with the half-time card show.

Meanwhile, the two students who pulled off the scoreboard stunt, Dan Kegel and Ted Williams, gave the first detailed account of how they did it at a well-attended seminar Thursday afternoon at Caltech. Previously, they had declined to disclose the details of the caper.

They told the seminar, which bore the innocuous title, "Packet RF Control of Remote Digital Displays," that they had also installed a device to take over the stadium's public address system, but it failed to work properly.

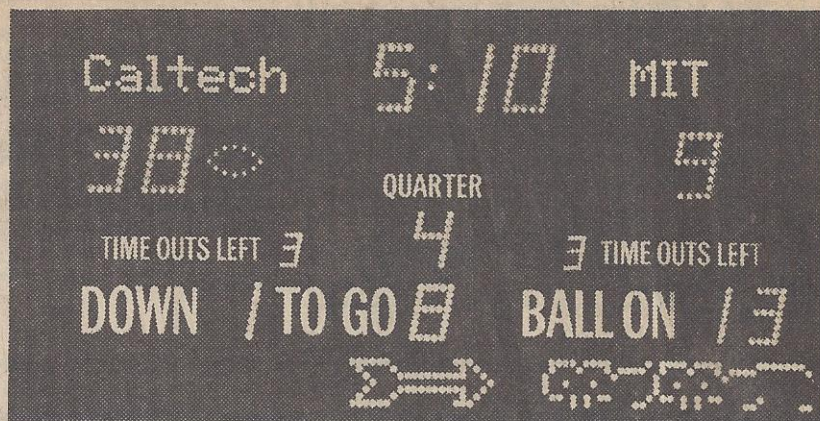
The two pranksters planted both the scoreboard apparatus and the public address apparatus in a junction box under the Rose Bowl's press box a few weeks before the game. To make the installation, which required several nights' work, they scaled the fence on the west side of the stadium, they said.

## 'Hopped the Fence'

"There was no security, and you simply hopped the fence," Kegel told the seminar. "To get into the Rose Bowl, you drive up to the west side, climb up the fence, which has barbed wire on top, grab onto a bar hanging over and jump over."

Secreted next to the microprocessor was a Sony Walkman tape recorder containing a recording of Wagner's "Ride of the Valkyries." Just after half time, Kegel said, the students switched on the Walkman by radio control, but either the volume was set too low or the crowd noise was too loud because the music was not heard.

A key element in planning the scoreboard stunt was the discovery of the manual for the stadium's scoreboard operators, which was left unattended in the room where they work. "We had some help from people in the Rose Bowl who conveniently left it in a convenient



MARK BOSTER / Los Angeles Times

The sabotaged Rose Bowl scoreboard that listed the wrong teams.

place," Kegel said. Later he explained that the manual had apparently been left unintentionally and that they had received no inside help from Rose Bowl employees.

Kegel said that he and Williams had entered the Rose Bowl more than a year ago to do "research" and decide "where we wanted to put things." It was then that they discovered the junction box from which they could tap into both the scoreboard line and the public address line.

When they installed their compact microprocessor in December, they had to supply electricity to it. Batteries would wear out before the game. So they tapped into the power lines that drive the press box's telephone system interchange, Kegel said.

A simple radio antenna was hung in a tree about 40 feet from the junction box, and the students were able to transmit to it on a frequency of 49 megahertz with a power of 100 milliwatts.

"It was running since the date we installed it," Williams said. "We made a very small check the day before, and it was still running."

To actually control the scoreboard, the students developed a series of commands that they could

send, along with the messages to be displayed.

After installation, they did their testing between 1 a.m. and 5 a.m. for several days before the game. "We tested it by typing in commands and watching them come on in the middle of the night," Williams said.

The system was adequate but not ideal, they said, noting that its limited flexibility resulted in an error on the scoreboard that no one detected during the game. At one point in the fourth quarter, the students intended to put up a picture of a beaver with a long tail. (The beaver is Caltech's mascot.) But the system misread what it was receiving and instead flashed pictures of two beavers.

Kegel and Williams have revised the system, making the packet of signals longer so it can include control information and prevent that kind of problem. "By sending more data in each packet, we hope to avoid the problems we had before," Williams said.

Both Kegel and Williams said one mistake they made was in being interviewed on television after the stunt.

"After trespassing on somebody's property, don't go on television and talk about it," Kegel said.



## Students take over the Rose Bowl

*Continued from page 1*

during the final four minutes of the game. But Williams said this couldn't have happened because the microprocessor installed in the bowl was still operating and accepting instructions.

In developing the prank, the perpetrators entered the Rose Bowl several times to splice a microprocessor into the Rose Bowl system and handle other technological details. Lee Sampson, press box supervisor, said Rose Bowl officials do not know how the students obtained a copy of the only computer program that operated the scoreboard.

Kegel submitted elaborate plans for the project for class credit in Electrical Engineering 91, "Experimental Projects in Electronic Circuits," taught by Stanley H. Bacon, lecturer in electrical engineering. He titled the project "Bulletin Board Control," and Bacon was under the illusion that it involved remote control systems for bulletin boards used in stock trading.

He only learned of the project's true purpose a few minutes before the game, when Kegel called him and asked him to be sure to watch it.

In 1982 and 1983, students attempted to bury balloons in the Rose Bowl field that would rise, inflate, and carry away streamers boosting Caltech. They were foiled in both instances by Rose Bowl security forces. Thus, not since January 2, 1961, had Caltech made it to the Rose Bowl. That year, students took control of the Washington Huskies' card show. Los Angeles *Times* columnist Jack Smith recalled that prank in his January 2 column this year, writing, "I suppose it can't ever happen again. Security is so good these days. But don't count on it." The Tech students didn't count on it.

## Pasadena takes students to court

As *Caltech News* went to press, the Pasadena city prosecutor's office had filed charges of trespassing and malicious mischief against Dan Kegel and Ted Williams for their role in the January 2 Rose Bowl prank. The students were scheduled to appear in court on January 31.

## Students take over the Rose Bowl—scoreboard, that is!

*Legends of Caltech* is sold out in its first printing—and already out of date. Caltech students saw to that on January 2 when they seized control of the Rose Bowl scoreboard during the game, printing out pro-Caltech messages and, with 9:26 to go in the 4th quarter, substituting the names of Caltech and MIT for UCLA and Illinois: Caltech 38, MIT 9.

Earlier, the students flashed other messages on the board, including "Go CIT," "DEI," and a matrix picture of an arrow pointing to two beavers—but none of these attracted much attention on the part of sports announcers or persons in the crowd. Later, the pranksters planned to substitute "1984 Beaver Bowl" for "1984 Rose Bowl," but were stymied when the scoreboard was turned off with four minutes left in the game.

Ted Williams, a senior in applied physics from Lloyd House, and Dan Kegel, a senior in engineering from Blacker House, were leaders of the project. They began work on it 15 months ago with plans to use it in the 1983 Super Bowl, but were not done in time.

The technology consisted of a microprocessor unit planted in the control system of the scoreboard, and linked to another microprocessor by radio. The students operated the scoreboard from a hill overlooking the Rose Bowl, some two miles away.

They would have liked to be inside, but lacked tickets to the game.

Jim Muldoon, media director of the Rose Bowl game, said the students' prank blew the circuitry on the system, plunging it into darkness

*Continued on page 2*



# *Police: Stunt could have been deadly*

Star-News Staff

"One of these days, we're going to find a body up there," Detective Don Hyzy of the Pasadena Police Department said Monday.

He was discussing one of the reasons police are taking such a dim view of the Caltech stunt during the Rose Bowl Game Jan. 2. Using a computer, students altered the scoreboard to show a nationwide television audience that Caltech was beating the hide off rival MIT, 38-9.

But, Hyzy said, the stunt was dangerous.

He said the prankster who wired the student computer that took over the scoreboard was suspended from an overhead beam by a rope while he worked. "He wired right into a power outlet with the power on," Hyzy said.

"They're getting more brazen," the detective said. He added that a lot of the city's concern stems from worries over possible terrorist attacks during the Summer Olympics to be held in Southern California.

Although the Caltech students had relatively benign intentions, Hyzy said, by implication, terrorists might not.

He said a key question is: Who's responsible if a Caltech student prank goes wrong and somebody gets hurt?

The police department's report on the incident is expected to go to the city prosecutor today.



# CALIFORNIA INSTITUTE OF TECHNOLOGY

OFFICE OF THE PRESIDENT (204-31)

June 3, 1985

Dr. Christopher Brennen  
355 South Holliston  
Pasadena, California 91106

Dear Dr. Brennen:

I take pleasure in notifying you that the Board of Trustees has approved an increase in your salary to \$ 73,000 effective October 1, 1985, on an annual basis.

The Institute's contributions to your benefit programs will be adjusted in accord with your new salary and these will be detailed in the statement of benefits that you will receive later in the year.

The strength of the Institute is its extraordinary faculty of which you are an important part. This salary increase is a small expression of our appreciation for your many contributions to Caltech.

Sincerely yours,

*Murph*

Marvin L. Goldberger

*Since I hear no outcries, I know you must be doing fine. Your division has also noted your other contributions, as you see.*



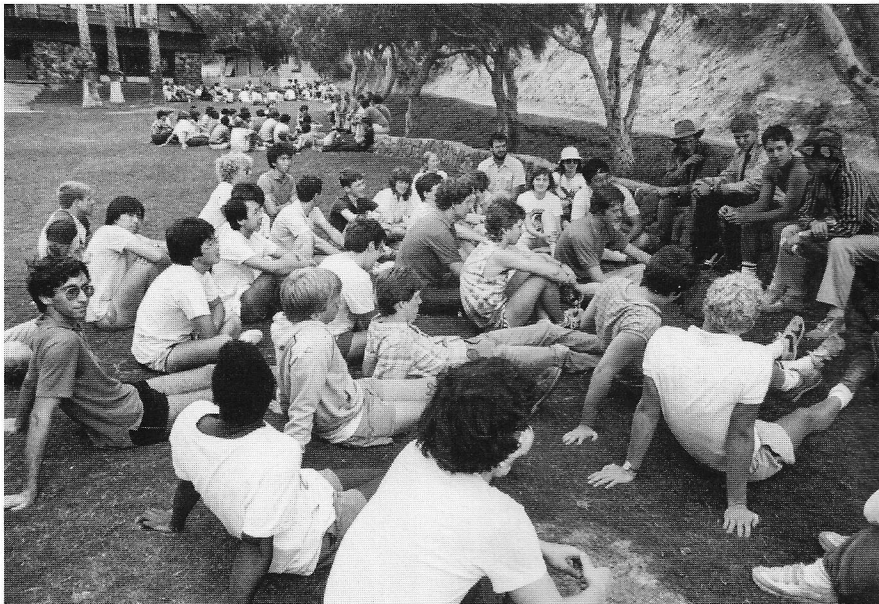
## Random Walk (continued)

### The Associates Hold Annual Dinner

A CAPACITY CROWD of The Associates of Caltech and their guests gathered October 15 at the Athenaeum for the annual dinner. Richard L. Hayman, president of The Associates, welcomed the group to the festive, black-tie evening, which also included a reception for the President's Circle, dancing to the music of the Caltech Jazz Band, and an address by Roger B. Smith, chief executive officer and chairman of the board of General Motors Corporation.

Caltech President Marvin L. Goldberger introduced Smith, who became a Caltech Trustee last year. Smith, who spoke on "The Future of the Automobile Industry," expressed optimism about the evolution that innovations in technology and management will bring.

### Freshman Camp



*Once again Caltech's new freshman class (plus 22 transfer students) convened on Catalina Island before the fall term for three days of fun, fellowship, and finding out what's ahead of them. Here a group listens to Chris Brennen (right), master of student houses, explain the house system; other small group sessions dealt with health and counseling services, career planning, financial aid, etc. The class also was introduced to quarks, acid fog, marine biology, Catalina's geology — and Catalina's rain. Numbering 200 men and 31 women, the class is the largest in the past decade.*