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# THE CALIFORNIA TECH

I like my finger the way it is

Volume XC, Number 19

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## Leonidas Alaoglu Memorial Lecture

by Craig Volden

How great an overhang can the tenth book on a stack of identical texts have? How can we predict or estimate the continuing trends of global warming? Questions like these, from the most trivial problems to issues of great importance, were addressed by Professor Ralph P. Boas, the Leonidas Alaoglu Memorial Lecturer for 1989, in his speech "The Harmonic Series: Applications and Unsolved Problems."

The lecture on Tuesday was the 7th annual lecture in memory of Alaoglu. This lecture program was established by the family and friends of Leonidas Alaoglu "in recognition of his great talents, his distinguished contributions to mathematics, and his long friendship with Caltech. The Institute is privileged to honor his memory with a lecture each year by an outstanding mathematician."

Professor Boas easily fits into this category. After graduating from Harvard University in 1933 and receiving his Ph.D. there in 1937, Boas went on to teach at many distinguished institutions across the country, to publish more than 150 research papers, and to greatly enhance mathematical literature with his editorships of *Mathematical Reviews*, *Selecta Mathematica Sovietica*, and *The American Mathematical Monthly*. Ralph Boas has also played significant roles in the American Mathematical Society and the Mathematical Association of America.

The lecture on the harmonic series was full of historical anecdotes, statistics and problems. According to Boas, it may be a great mathematical advancement just to uncover why the harmonic series is actually called the harmonic series.

ies. "If anyone knows the origin of the name, I'd like to hear it." After all, the harmonic series is simply the sum of the inverses of all of the positive integers, from one to infinity.

In the early 14th century, "many mathematicians thought the harmonic series must converge, as the terms kept getting smaller and smaller; the rest thought that it must diverge because it keeps adding more and more." Around 1350 AD, a mathematician named Oresme presented the first proof that the harmonic series does indeed diverge. It was more convincing to mathematicians "than Oresme was when he confronted the Pope about the evils of Catholicism." Even back then, mathematicians had a wide variety of interests.

Boas proved that this holds true for modern mathematicians, as he introduced a wide variety of problems related to the harmonic series. How long it would take a modern computer processing one term per microsecond to the accuracy of 14 digits to appear for the first time to be adding zero to the sum of the harmonic series? Nine years. How many terms of the harmonic series must be added together for the sum to exceed one hundred?  $1.509 \times 10^{43}$ . Manipulations, such as altering the terms of the harmonic series or examining the number of outstanding maxima and minima of the yearly average temperature, provide an unlimited supply of problems for "intrigued mathematicians."

And it seems as though the intrigued mathematicians brought forth by the Leonidas Alaoglu Memorial Lecture Program will continue to supply and unlimited supply of solutions and insight into mathematics.

## Feynman Professorship Created by Alumnus

A named professorship honoring Richard P. Feynman has been established at Caltech by a \$1.5 million gift from Caltech alumnus Michael Scott of Sunnyvale, California. Feynman, Nobel Laureate and one of this century's most brilliant theoretical physicists, died last year in February at the age of 69. He had been a member of the Caltech faculty for 38 years.

As a Caltech freshman, Michael Scott attending Feynman's famous freshman physics lectures; and, like many Caltech students before and after him, was profoundly affected by Feynman's extraordinary ability to communicate the meaning of physics to audiences at all levels. In establishing the Richard P. Feynman Professorship in physics, Scott stated his wish "particularly to recognize Feynman's genius as a teacher," as well as to honor his memory as a great scientist, author, and Nobel laureate. To that end, the selection of the recipient will include special consideration of teaching ability.

In announcing the Scott gift for the Feynman professorship, Caltech's President Thomas E. Everhart expressed his appreciation for the opportunity it gives the Institute to strengthen its commit-

ment to excellence in teaching as well as to excellence in research.

"Many of us suspect that our most important impact is the education we provide to our students," said Dr. Everhart. "Professor Feynman was an exemplar for us all, giving lectures that excited and enthused students, as well as instructing and challenging them. It is fitting that a former student is the first to provide a chair honoring his total contributions -- but particularly to recognize the impact of his teaching."

Scott earned his B.S. in physics from the institute in 1965. In 1977 he became the first president of Apple Computer. Before joining the founders of Apple, Scott worked as an electrical engineer at Beckman Instruments, in linear product marketing at Fairchild Semiconductor, and in manufacturing at National Semiconductor. During his five years at Apple he supervised engineering, while establishing a modular real-time, on-line data processing system that coordinated the firm's activities. The company went public in 1980, and Scott semi-retired in 1981. He is currently advising small start-up companies.



Three goons pose as Tech editors.

photo by Corbet Wilcox

## WEEKLY SPORTS RESULTS

Day	Date	Sport	Opponent	Results
Fri.	2-24	Basketball	Whittier JV	51-58
Sat.	2-25	Track	Biola, Christ, Masters, UCSD, Westmont, Whittier	vs. Biola, M 120-40, W 88-40; vs. Christ, M 155-14, W 95-26; vs. Masters, M 128-34, W 110-13; vs. UCSD, M 115-47, W 94-34; vs. Westmont, M 118-42, W 78-55; vs. Whittier, M 114-48, W 86-47
Sat.	2-25	Baseball(2)	Pac. Coast Baptist Bible College	13-6, 7-8
Sat.	2-25	Tennis (M)	Whittier	7-2
Sat.	2-25	Tennis (W)	Claremont-Mudd-Scripps	0-9
Tue.	2-28	Tennis (M)	LaVerne	6-3
Tue.	2-28	Baseball	LaVerne JV	6-4
Wed.	3-1	Tennis (W)	Whittier	3-6

## WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Fri.	3-3	12:30 pm	Ice Hockey	U.C.L.A. #2	Culver City
Fri.	3-3	All Day	Golf	So. Cal. Intercollegiate Tourney	Torrey Pines
Fri.	3-3	3:00 pm	Baseball	Claremont-Mudd	Claremont-Mudd
Sat.	3-4	9:30 am	Tennis (W)	Occidental	Occidental
Sat.	3-4	11:00 am	Baseball (2)	Claremont-Mudd	Claremont-Mudd
Sat.	3-4	11:00 am	Track	Redlands	Claremont
Sat.	3-4	2:00 pm	Tennis (M)	Pomona-Pitzer	Pomona-Pitzer
Sat.	3-4	All Day	Fencing	Men's Western Regionals	Stanford
Sun.	3-5	All Day	Fencing	Men's Western Regionals	Stanford
Sun.	3-5	1:00 pm	Soccer Club (W)	Occidental	Claremont
Mon.	3-6	1:00 pm	Golf	Whittier	Occidental
Tue.	3-7	3:00 pm	Tennis (M)	Redlands	Claremont
Wed.	3-8	3:00 pm	Baseball	Pac. Coast Baptist Bible College	P.C.B.B.C.
Wed.	3-8	3:00 pm	Tennis (W)	Redlands	Claremont
Wed.	3-8	11:30 pm	Ice Hockey	Golden West	Costa Mesa
Thu.	3-9	1:00 pm	Golf	Whittier	Redlands

## CRIME BEAT

2-8-89 Information card holder stolen from Church Lab, Room 271. The 3" by 8" brown leather card holder contained several checks made out to its owner, a Mastercard, several car rental cards, and \$350 to \$400 in cash.

2-19-89 Purple swimsuit with black and blue stripes stolen from women's locker room.

2-23-89 Wallet missing from vending machine room in Jorgenson Lab.

2-24-89 Bicycle stolen from Booth Lab.

2-26-89 Nikon camera and telephoto lens missing from Baxter/Ramo basement.

2-26-89 Items totalling approximately \$570 in value (35mm Camera, AM/FM Sony Walkman, Radio/Cassette Tuner) stolen from student in Fleming House.

2-26-89 Vandalism: Windshield damaged and passenger window cracked on car parked in athletic lot.

2-26/2-27-89 Attempted theft of stereo and VCR equipment from recreation room and basement of Catalina I.

An escort is available from the Caltech Security Office. An officer will escort you to and from any building or from your building to your car during the hours of darkness. To obtain an escort call extension 4701. It is suggested that you call 15-20 minutes prior to the time you wish to leave your building.

## ASCIT ANNOUNCEMENTS

Sign-ups for the following appointed offices will be up on the Mosh's Office until Tuesday, March 7. Everyone who wants to be considered for these offices must come to the March 7th meeting of the ASCIT BOD. We will interview all of the applicants and then vote at the meeting.

Big T Business Manager  
Big T Editor  
California Tech Business Manager  
Election Chairman  
Executive Committee  
Little t Business Manager  
Little t Editor  
Publications Darkroom  
Chairman  
Social Committee  
Totem Editor

The Board of Control will be meeting in the MOSH's office at 8:30 on the evening of Monday, March 6 to discuss the rewriting of the Honor System Handbook. Any members of the Caltech community who have ideas on ways to make the Handbook more useful for new students and faculty are encouraged to attend. Please call x6200 for more information.

# Track Teams Undefeated

**by John Raguin**  
 Yes, the god-awful, kick-but track team did it again. This past weekend the track team had a meet against six teams and wasted them big time! Admittedly, three of the six we had gone against a few weeks ago, but it was still awesome. The studs beat UCSD 115-47, Whittier 114-48, Biola 120-40, Westmont 118-42, Masters 128-34, and Christ 155-14. The stud-ettes beat Westmont 78-55, Whittier 86-47, UCSD 94-34, Biola 88-40, Christ 95-26, and Masters 110-13.

Both teams are undefeated, with an 11-0 record for the guys and a 10-0 record for the gals. This year is making history for the team! What makes it even funnier is that LaVerne didn't show up because they got juiced at parties the night before!

### The men

Well, now the stud times. Sean "Hillman" Hillyard is a god in the 400 meters! With no training, he won the race in 51.6, and anchored the mile relay team. Ray Hu ran an impressive 2:02.1 800m, in which he came from behind to take the lead, only to lose it at the very end. Randy Ralph is getting back into shape, with a winning leap of 6'4" in the high jump. "Sweet William" Swanson jumped 6'0", his best ever.

Steve Harkness was awesome in the field events, throwing 40'0" in the shot, 143'5" in the javelin, and 101'1" in the discus. Scott Kister wasted some butt with a PR 10:49 steeplechase, but wasted all his energy so he only ran a 17:39 5000m. Chris Campo ran well in the sleeping race, the 10,000m, with a 36:39, and also ran a 17:56 5000m.

Other good performances were Dan Flees with a 4:16.8 1500; Paul Socolow with a 1:01.3 400ih, a 19.4 110h; Tom Tetzlaff with a 24.1 200, and a 11.7 100; Joe "Skate Punk" Fierro with a 56.1 400m; James Davila with a 54.8 400m, 1:08.3 400ih, and a 25.0 200m; Johnny "Psycho" Tsai with a 104'9" discus and 112'5" javelin.

More fine performances were Dan Kollimorgen with a 24.6 200m, and a 11.8 100m; Greg James with a 11.7 100m and a 19'8" long jump; Jack "Home Boy" Prater with a 24.6 200m, a 19'9" long jump, and a 39'2" triple jump; Ed Mao with a 35'8" shot put and a 103'2" discus; Randy Stevenson

and Albert Lee with 11'0" pole vaults; Aram Kaloustian with a 109'3" javelin.

Mike Mahon ran a 2:11.1 800 and a "jog in the park" 19:29.0 5000m. Mike was trying to impress the babes and did not want to mess up his hair. The men's article is not complete without saying that grad turkey Rich Dissly is awesome! He ran a 3:56.6 1500 and did not look like he was trying!

*You want to be tech business manager.*

### The women

Liz Warner was incredible as usual, competing in 8 events and setting school records in 3 of them. The records were 16'6" long jump, a 32'8" triple jump, a leg of a 55.6 4x100 relay. The other relay runners were Emmeline Naranjo, Golda Bernstein, and Gladys Chow.

Jerri Martin continued her awesome running by setting 2 school records, 4:50.4 in the 1500m, and a leg of a 4:41.0 4x400 relay. The other people in the relay were Golda, Kitt Hodsdon, and Bibi Jentoft-Nilsen.

Liz did a 1:14.1 400ih, a 4'4" high jump, a 18.6 100h, a 25'7" shot put, and a 77'5" discus. Emmeline also ran a 14.7 100, a 18.7 100h, a 1:22.4 400ih, and jumped 12'8" in the long and a 29'4" triple jump; Golda also ran a 1:10.4 400 and 32.1 200; Bibi also ran a 5:19.0 1500, a 2:35.0 800, and high jumped 4'6"

Jerri ran a 10:52.4 to win the 3000; Gladys ran a 14.8 100, a 31.1 200, and long jumped 13'6"; Kitt ran a 1:13.1 400; Dee Morrison did 26'9" in the shot put, 70'10" in the jav, and 97'4" in the discus, and a 15.1 100, and Cathy Hafer did a 2:58.3 800 and a 1:14.1 400. Sweeping a meet two weeks ago was a first, but now they have done it again!

Our next meet is this Saturday at Claremont against Claremont and Redlands. Although coach Jim O'Brien knows this will be a rude awakening for the frosh on the track team, he believes that we can try to pile up some points against two of the stronger teams in the conference. "Biola, Westmont, and UCSD did not have their full contingent, but even if they did, they admitted we would have trashed their butts anyway!" said coach. Well, he still needs more people, so don't be bashful, come down and talk to him anytime. Our workouts are 4:00 to 6:00 every day!

# Dribblers Josh and the Wild Men Done

**by Josh Kurutz  
 Third in a Series**

**by Sunday Nights**  
 Beaver Basketball finished out this season with a victory over La Verne 60-39 and close losses to Pomona-Pitzer 54-52 and Whittier 58-51. The Beavers finished the season off displaying improved skill and poise on the court.

The Pomona-Pitzer game was a tightly played match with Caltech leading for most of the game. The Beavers lost the lead with less than one minute left in regulation time. They then gained final possession of the ball with less than ten seconds on the clock, but were unable to convert a three point attempt into a basket. George Papa was points leader with 15 pts. and Sean Hillyard had 10 pts. Other scorers were Bill Swanson 8 pts., Jason Karceski 7 pts., Aram Kaloustian 5 pts., Larry Ahle 4 pts., Brad Scott 3 pts.

The tough loss to Pomona-Pitzer did not dishearten the battling Beavers as they crushed La Verne in the following game. The Beavers leapt to an early lead and kept it as they played with skills honed in a long and hard season. The scoring for the game was fairly even with 4 players in double digits for Caltech: leader Sean Hillyard 13 points, George Papa 12 points, Aram Kaloustian 12 points, and Jason Karceski 11 points. "Sweet William" Swanson had 8 points also.

"Sweet William" Swanson turned into "Big Bad Bill" in the game against Whittier as he led Caltech scoring with 21 points. George "Twice the Approximate Driving Time" Papa had 11 points. Jason "Bermuda Shorts" Karceski and Larry "Commissioner to His Friends" Ahle each had 6 points. Aram "Next school I go to better have a ratio of 7 to 1 girls" Kaloustian was the assist leader as he has been throughout the second half of the season.

The Beavers will miss the exceptional talents of graduating seniors, Brad Scott, Sean Hillyard, Aram Kaloustian, and Scott Bradley as the Battling Beavers play a full varsity schedule starting next season. The action promises to be even more exciting so plan on cheering them on to victory next fall. See you then.

The "Wild Man" is a vital motivating part of every male, according to Robert Blye, an author whose ideas were presented at the Men's Discussion Group two Fridays ago. The aim of that meeting was to explore inner driving forces essential to male personalities that are often denied, overlooked, or regretted.

Blye's work was a folk tale called, "The Pillow and The Key." It dealt with one man's discovery that deep inside him, there was a Wild Man of primitive urges and needs. This primal self was cloaked with "higher" features of the man's character that made him look "civilized" though the primitive Man still tries to express himself.

Once discovered, the Wild Man was found to be a creature of many qualities. He was adventurous and enjoyed discovering things. He was not constrained by any rules. He was very aggressive and capable of great anger, and even violence. The capacity for violence in the Wild Man forms most of the reason he is feared and overlooked.

The fear of confronting his primitive self drives a man to create devices to avoid dealing with it. The lack of contact with this part of himself may lead a man to ignore its expressions; for example, a violent man may declare he is not really that violent.

Failure to recognize this natural portion of self may also result in denial of its existence; such a man may repress all his violent tendencies. This type of man is particularly susceptible to attacks on his primitive qualities.

Many interpret some sexual liberation ideologies as forces that recognize and work to destroy the Wild Man, thus depriving men of what is natural to them. The result of such efforts is often described as the "soft male" or "New Age Male."

The soft male is one who lacks initiative, is oversensitive, and is not at all aggressive. He probably feels caged in by his value system since these values discredit the free-living primitive that lurks within.

The New Age male was seen to be a response to the sexual liberation movement for a number of reasons. During the height of the movement's activity, male characteristics such as aggressiveness and

lawlessness were decried as the roots of all evil in the world; peace and harmony could be achieved through abolition of these traits.

Hence, many males were brought up valuing total non-violence and non-aggressiveness. During the Peace Movement, women rewarded men who displayed these qualities. As part of the Women's Movement, women assumed more active, initiating roles, and many men were subjugated by them rather than being treated as equals by them.

The New Age male now faces a dilemma. He feels he has done his duty to progressive society by purging Rambo-like qualities from himself. By getting rid of all these traits, part of him is empty; his primitive side remains unexpressed through social conditioning.

The dilemma he faces now is that he must change again. Before, he conformed to society's opinion, but now he finds that society did not want him to go this far. He must now build a moderate amount of aggressiveness and initiative; he must learn to recognize his violent emotions and express them in non-destructive ways.

It is now recognized that many of the feared qualities of the Wild Man are actually necessary and good. Ideally, men would recognize this part of themselves without being afraid of it or giving it free reign. This recognition of primitive foundations for manhood is uplifting. Thus, it is recognized that a man who is in touch with the Wild Man in him can be one of the most free and emotionally healthy individuals in modern society.

## THE CALIFORNIA TECH

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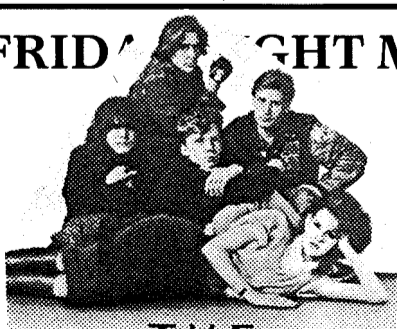
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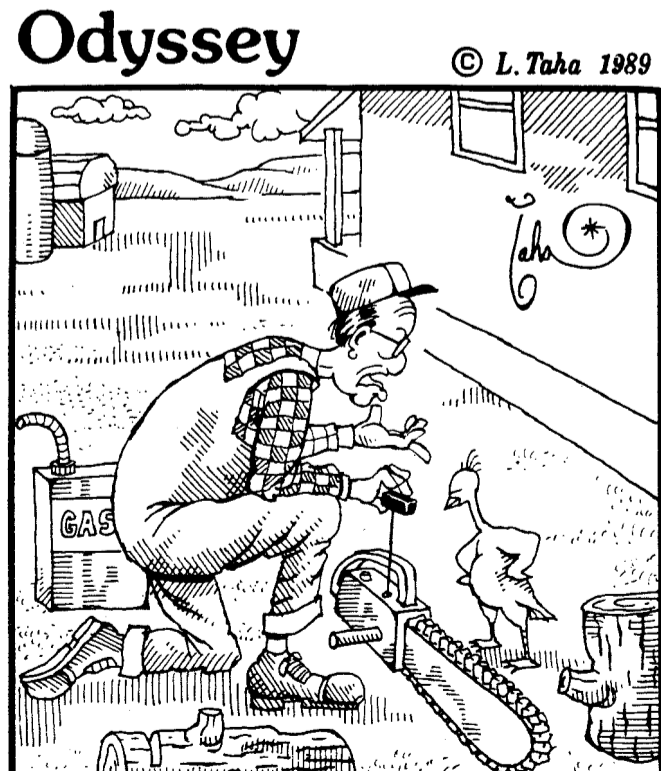
**ASCIT FRIDAY NIGHT MOVIE**



**THE BREAKFAST CLUB**

**BAXTER LECTURE HALL 7:30 & 10:00 p.m.**  
 \$1 for ASCIT members \$1.50 for others

**Next Week TRON**



**Odyssey** © L. Taha 1989

The sudden interest in how to operate the chain saw the day before Milly was to be slaughtered should have been an obvious tip-off. Unfortunately, that night Ben paid dearly for his mistake.

**SPORTS****fun****Tennis Wins, Finally Dog's Life**

by ThunderChris

Spring is upon us, and tennis season is in full swing. With days getting warmer and sunnier, Caltech's sensational men's tennis team crushed and embarrassed both opponents this week, with a 7-2 annihilation of Whittier on Saturday and a 6-3 lambasting of La Verne on Tuesday.

In only their second away game, the Beavers journeyed to Whittier, one of the smoggiest places that side of downtown Los Angeles. By the looks of the team shortly before warmup, it seemed that this was more of a beach party than a tennis match. With shades, radios, and thermoses (filled with anything from water to extra-strong Gatorade) around, the situation appeared as if the Whittier team was nothing to worry about. In hindsight, this was all too true, much to the dismay of the hosting team. But once the matches got underway, the powerful Beavers wasted no time in proving who was indeed superior.

Raleigh Chiu, in Tech's number one spot, embarrassed his opponent, blanking him 6-0, 6-0 with unrelenting strokes of all depths, arcs and spins. Not even a troubling shoulder injury could prevent Chiu from extinguishing the Whittier player's hopes of upset. Dan Pang, CIT's number two, also butchered his opponent with ultra-intense play, putting him out of his misery with a three set win. Anh Tuan Le and Hemat Keny also got into the singles demolition act with three-set conquests of their own. David Garza and Lloyd Farnham, although losing to opponents who must have drank liquid smog all their lives and thrive in bad air, played tough and strong, making sure Caltech would not give up points easily. Even freshman Chris Ho, playing "transitory varsity," found no trouble in decimating his foe with a quick two-set triumph.

In doubles matches, Le and Pang wreaked havoc versus their doubles adversaries, trampling them in a 6-0, 6-0 conquest. Chiu and Garza mangled Whittier's #2 pair in their three sets. In the third doubles match, Keny and Jimmy Ng found their opponents playing mysteriously well and were forced into a third set. Down 2-5, the Whittier competitors fought back to a 4-5, with two break points in the important tenth game. Yet even this challenge was handled by the Tech team, as Ng's deep, well-placed serves were just too much, awarding the final set and match to Caltech. With its first team win under its belt, the team returned home to face La Verne.

If you were to pas by the Caltech courts late Tuesday afternoon, you might have thought La Verne had brutalized the singles line-up. Although six or so Beaver players were indeed icing some part (or parts) of their bodies, from elbows to shoulders, hamstrings and shins, this sight was by no means any reason to worry about the marvelous capabilities of Tech's players to trample over those who face them. Chiu, with another display of Winning-Made-Easy, overwhelmed La Verne's top player with a quick 6-1, 6-2 wallop. Pang, playing against someone with less-than-perfect court conduct, stuck it to him in three sets, 3-6, 6-2, 6-2. Le also overcame a first set loss and won in three. Garza found no such barriers and proceeded to obliterate his foe, 6-2, 6-4, while Farnham took complete control and rolled to a 6-1, 6-1 trouncing in his match. Keny, dropping the first set to a purely dinking player, decided it was best to show him how to play real tennis, and pulverized him in three. La Verne brought two additional singles players, so Frances Ho and Chris Ho (no relation) had fun in slaughtering them as well.

With the second win in a row already in hand, the doubles lineup was changed, allowing for six more Caltech teams to gain varsity experience. The number one doubles team of Mike Freeman and Cheng Song showed great form, high intensity, and fine team play and forced the La Verne players all over the court. In a seesaw match, however, La Verne managed to avoid the loss, though not without extreme physical exertion in the grueling three-setter. In the second spot, Ng and F. Ho also forced La Verne to third set, displaying sound play and teamwork, but came up just short in the end. George Liu and freshman Sonny Arcilla, meanwhile, found themselves playing in third doubles spot and showed great energy, though losing in two sets.

When all was over and done, however, La Verne just could not escape the superior forces of the Caltech men's tennis team. They had come come with thoughts of upset and glory; CIT sent them back with the knowledge that underdogs don't always win... and sometimes don't even come close...

(On a lighter note, George, upon hearing that he would be playing, singly remarked, "I don't play doubles." Coach Mike Jackson, always doing his best for the team and his players, lightheartedly replied, "You do today.")

And the smiles and winning tradition continue...

by Bengt Magnusson

"Det kunde ha varit värre," it could have been worse, says Ingemar in Saturday's Cinematech movie, *Mitt Live Som Hund* or *My Life As A Dog*. Ingemar, a young boy, is the main character in this masterfully-made Swedish movie. It is set in Sweden during the late 50's, soon after the first Sputnik was launched. Ingemar manages to continuously get himself into strange situations: sad ones, dangerous ones, funny ones. He would most certainly be a burden for any parents; especially so for his lone mother, who is seriously ill. He is therefore sent away to live with his uncle in a rural part of Sweden until she recovers. His already troublesome childhood is certainly not made easier by his relatives in the city, who see him and his beloved dog Sickan as an unwelcome burden they want to get rid of at once. Ingemar has a very philosophical outlook on life; he thinks a lot, and manages to get himself through difficult moments that way. He always says to himself that it could have been worse, and seems content with that.

All of Ingemar's hardships are depicted with a lot of humor, although the funny parts are never allowed to dominate. There is a very sad feeling permeating many of the scenes, giving you a very strong emotional response. Sort of like eating very cold ice cream with very very hot fudge, if you understand what I mean. It is one of the funniest and saddest movies I have seen.

The late 50's environment is very well re-created, and the movie gives a good flavor of what Swedish society really was like at the time. Lasse Hallström, the director, is one of Sweden's best directors, and has won numerous awards. This movie won him "Guldbuggen" (the Golden Bug), the highest award a movie can get in Sweden. It also received an academy award nomination for best film. Some of Sweden's best actors star in it, most noticeably Thomas von Brömsen portraying Ingemar's uncle. T. vB. is famous in all of Sweden, most noticeably as a comedian, but also for several serious parts in other movies. The film is actually based on a book with the same title, which explains why the script is so strong. The dialog is the original Swedish one, with English subtitles. The subtitles are actually really good. Trust me, I know. I'm Swedish. The movie is also available on video in a (worse) dubbed version. Be sure to set off some time Saturday night to see this great movie!

**One For the Road**

by Carl Roth

The term "industrial," in the artistic sense, is used to describe the loss of identity and freedom in the industrial/post-industrial society, the "bitter message of hopeless grief." The current production of *One For the Road*, a one-act play by Harold Pinter, fits its billing as "industrial theater" very accurately. Directed by Mack Rhinelander, it depicts the plight of the political prisoner in a harsh, yet surreal way.

Not so much a series of events as it is snapshots on a single event, the plot revolves around the interrogation of a political prisoner, played by Josh Partlow, by the chief interrogator, played by Mack Rhinelander. The interrogator alternately brings in the man's wife and son, played by Pamela Katz Rosten and Craig Volden, respectively. Great emphasis is placed on the actual effects of the interrogation, and no mention is made of the alleged political offense. This serves to establish a certain timelessness of the plight of political prisoners, undoubtedly one of the intentions of the playwright. The play rings of Orwell's *1984*, but its minimalism serves to highlight the human aspect of interrogation.

This vehicle of conscience is propelled along effortlessly by the four players involved. The acting, sometimes subtle and sometimes not so subtle, points to each character's idiosyncrasies and personal faults. While the four characters are, in a sense, faceless abstracts, much is to be gained by observing how people react to

stress, or, in the interrogator's case, react to a position of enormous power.

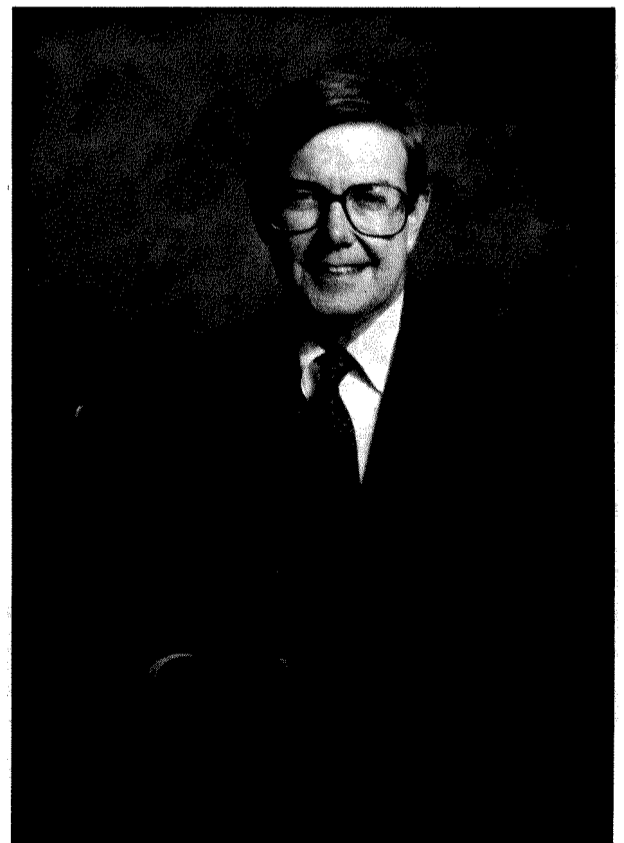
The staging of the play greatly enhances the overall message being conveyed. Playbills describe it as being "...staged in a confrontational manner." But this does not imply explicit audience interaction. Deliberately small audiences are escorted by ushers from the Caltech Coffeehouse to a staging area in the steam tunnels, where the fabricated theater of sorts is revealed. Props are provocatively arranged to bring the audience close to the action, but in a very symbolic manner. The suggestive underground location of the production, coupled with the judicious use of light and darkness during scene changes, create a very grim atmosphere for the players to perform in.

The relatively short length of the play—less than an hour—prevents the audience from forming its own conclusions until afterwards. Works of this sort, however, tend to provoke further thought after the fact. In this sense, the play is just long enough to convey the right messages.

So what would bring ten people away from the Coffeehouse to a location in the bowels of the steam tunnels? Granted, the dollar admission price could buy an order of fries, but what is the price of enlightenment? *One For the Road* offers not so much a dollar's worth of entertainment as it does an hour's worth of perspective.

*One For the Road* continues on Sunday at 8:00 and 9:30 pm and on Tuesday at 8:00 pm. Reservations can be made by calling 356-3961.

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# The Inside World

Page: Dean Wilber  
 Page2: Mark Schmidt  
 Page3: AJAY Chedda  
 House o' da Month: Mark Huie and Rob Padula  
 Ruddock: Nik Joshi  
 Dabney: David A. Edwards

**Page**

Is it?...well, it looks like, but...well, maybe...okay, yeah, it's the **Page Inside World**, which has been sort of missing from recent issues of this esteemed publication, but is now back, **by request**, so enjoy it while it lasts.

What do you call a bunch of guys glomming skanky women and a keg? A Caltech party, of course. What do you call a bunch of guys glomming a keg? A Page house party. At least someone has their priorities straight. Once again, the Page Institute for the Study of Social Drinking (that select but highly respected organization which does not partake of alcohol but enjoys watching drunk people dance to Elvis tunes and pour beer on each other) has observed what appears to be a new fundamental force of nature, that irresistible attraction which draws unattended kegs of beer into the Page library and keeps them there until sucked dry or someone calls Todd up and says, "Give back the keg, or else!" Another interesting observation: Dwight doesn't like alcohol unless you name it after him ("Here, Dwight, have an Iceberg. Have two. Hey, why don't you chase those with a bottle of this Dwight Zinfandel here? etc., etc.")

Speaking of Todd, there was a big election last week, but since everybody (except for maybe Mark Schmidt) knew how that was going to turn out since maybe, oh, about Thanksgiving I don't see why I even bothered to mention it here.

Speaking of beer, it seems that some of you aren't practicing safe beer drinking procedures, so here is a partial list of beer drinking procedures, in order of risk:

**SAFE:**

- Michelob Dry
- Pouring Beer on Healthy Skin
- Spilling Beer on a Man with a Condom
- Thinking About Beer
- Making Your Own Beer
- Spilling Beer on Your Clothes

**LESS RISKY:**

- Drinking Beer From a Cup
- Seagram's Wine Coolers (Get it?)
- Throwing Up in Your Own Room

**RISKY:**

- Spilling Beer on a Man Without a Condom
- Pouring Beer on Open/Broken Skin
- Spilling Beer on a Woman

**DANGEROUS:**

- Drinking Beer Straight from the Tap
- Beer Enemas
- Throwing Up in Someone Else's Room
- Pouring Beer into Ear, Vagina, or Rectum
- Sharing a Beer
- Fisting
- Throwing Up on Someone Else

(Now of course, people are going to stand in front of my room until 3:30 a.m. talking about beer.)

Last but not least, do not be surprised if people come up to you in the Page Lounge and actually **talk** to you. You see, our television reception is not what it once was. But take heart, those of you who release your urges by watching Page House Weekend Video. The VCR still works.

-Mr. Laughs, laughing as usual.

**Page2**

Somebody told me I shouldn't write this. Somebody might be embarrassed. I don't understand- if somebody has a wench, he should be proud of her. Otherwise, why is he wasting time on her?

For those of you who haven't been upstairs for a month, I'm referring to **Gary Eastvedt** and his lovely wife, Ms. Pamela Mai Katz Rosten Reid Eastvedt etc., etc. I'm now the less-than-happy owner of the only triple in Page House. And not just any triple, I might add- it's the ASCIT triple. I bunk with nearly 25% of the ASCIT BOD now. Scary, isn't it? I guess I can't really complain, though. Just because she tracks her bare feet all over our new carpet... Just because I'm kept up til all hours of the night by their moaning not during sex, but during Ma2 pity parties... Just because I'm forced to enter the lottery for an off-campus room (anybody need a roommate?)... Just because I didn't take my single when I had the chance and leave Brett Bochner to deal with the lovely couple...

No, I guess the only real reason I have to complain is that I have to explain **every single vibrator joke** on *Married With Children*. Geez, you'd think if anybody'd know...

And who's Page House's second-newest couple? C'mon guys. If Dave Emerson knows, none of you have an excuse- not even the frosh. It makes perfect sense that noting his Christian beliefs and (until now) morality, Allen would choos a woman with a name like Eve. But look what happened to Adam when he made the same mistake! The two have been observed engaging in such questionable activities as under the table handholding and even necking, leaving thousands asking that burning question... Have Allen and Eve been picking any forbidden fruit lately, or what?

In honor of Jimbob's illustrious presidency (which coincidentally ended in the first week of the Year of the Snake, which was also National Condom Week, here's the "Is Jee-may thay-er?" memorial top 10 list.

**Top 10 List of Things Jimbob Wishes He Had a Use For:**

- 10: His "Making Safe Sex Safer" leaflet
- 9: His single
- 8: His CD of Ravel's Bolero
- 7: The subtle message of his George Michael record, "I Want Your Sex"
- 6: The linen exchange
- 5: His stock of free condoms from the laundry room
- 4: The whipped cream Ginger left him
- 3: The whip and handcuffs he keeps hidden underneath his heart-print boxer underwear
- 2: His generous king-size loft
- 1: His maybe not-so-generous, not-so-king-size Johnson.

-Stupid Boy (sucker for love)

**House o' da Month**

Okay, maybe I was a bit too harsh on the Housing Office, at least they didn't paint over every piece of wood in the house. The floor is unpainted. So, have you ever seen a sink explode? Yeah, no one here at HoM has either. No, Betina saw it a minute after it exploded, and that's only because there was water still gushing all over the place. Have you ever called the Housing Office and said, "Hi, um, our kitchen sink exploded?" "Your kitchen sink exploded?" "Yeah, we turned off the water, but it'd be nice to be able to wash the dishes with hot water. Can you have somebody come by and fix it?" "I'll have to hand it to the housing office, because for once they did something immediately. They called somebody on the walkie talkie and had him here within the hour. I was afraid they were going to subcontract this out."

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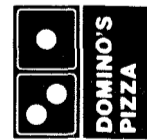
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## Baron Lives

by Brian Fuller and  
Paul Socolow

In his first two independent films, Terry Gilliam closed the gap between reality and fiction. His new film, *The Adventures of Baron Munchausen*, continues this tradition, but in a much more elaborate style. The story concerns the legendary Baron von Munchausen and his adventures on the moon, in the realm of the god Vulcan, and inside a giant fish all on the way to saving a European city from the invading Turks. Here with the review, are the California Tech's top film critics, S. Kubrick and W. Allen.

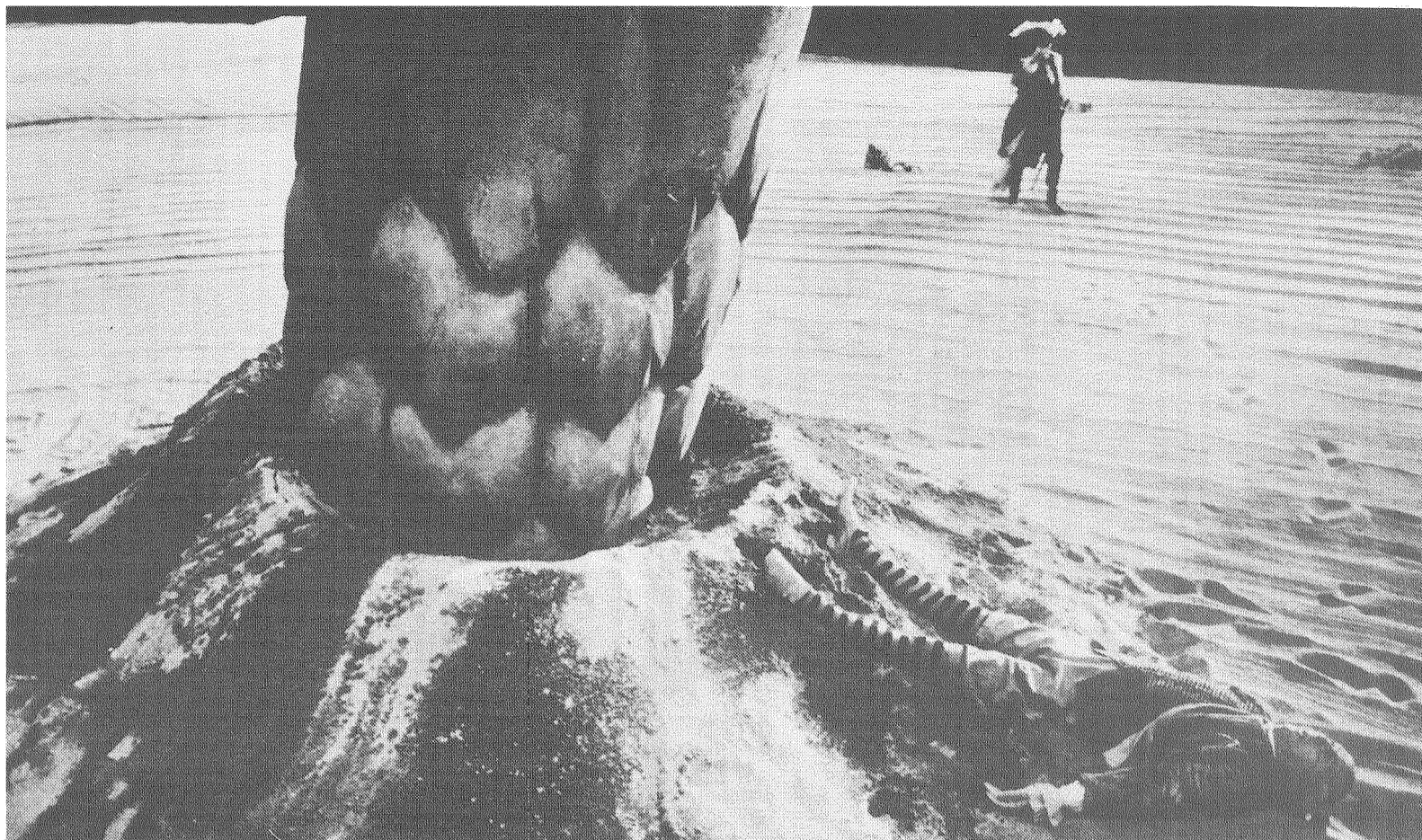
S.K.: I'll start by saying I was overwhelmed by the majesty and grandeur of the film. The sets, costumes, and special effects were more than just impressive, they were amazing. It's no wonder Gilliam was almost fired because of the amount he spent on the production, but it was well worth it. Not only is the movie enjoyable, with a well written and often humorous plot, but it is a feast for the senses. Think of your favorite Bugs Bunny cartoon and you get a felling for the mood of the film.

W.A.: I'll have to agree with you about the mood. Watching the film filled me with a childlike exuberance that I haven't felt for years. I was at once caught up in the mythical story, yet still able to laugh when it took an absurd turn. Still, there is room for improvement. Perhaps Gilliam gave too much attention to the effects, and not enough on the plot, which lacked a deliberate point, unlike its predecessor, *Brazil*...

S.K.: I'll have to stop you there, my friend. Surely, *Munchausen* does not dwell on its theme like its predecessor, but it does have a point. The negative way the calculating, logical, reality-based city Commander is portrayed is evidence enough that Gilliam had a point. Just because he wanted to have fun with the story, instead of preaching, doesn't mean the film was devoid of meaning.

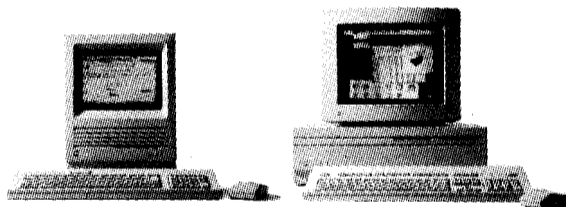
W.A.: You're really reaching to find meaning, S.K. Why don't you just accept the film for what it was: a good time with no strings attached, nothing to think about afterwards. It is a harmless adventure that this reporter is going to give a thumbs-up to.

S.K.: Well, I definitely agree with you there, an unequivocal thumbs-up from me, too. Well, that's all for this week.

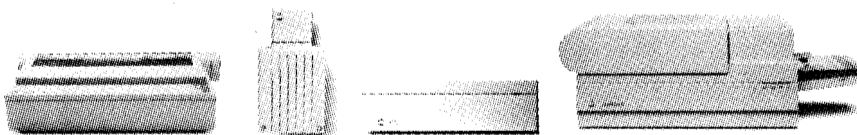


Berthold (Eric Idle, foreground) is nearly speared by a giant asparagus while Baron Munchausen (John Neville) rushes to his rescue in *The Adventures of Baron Munchausen*.

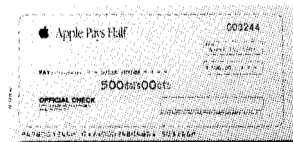
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# One by Computers Draw Rossini

by Laurraine Tutihasi

*Tancredi*, the first full-length opera by Rossini, was the Los Angeles Music Center Opera's recent offering at the Dorothy Chandler Pavilion.

Although Rossini is best known for his comic operas, such as *The Barber of Seville* and *La Cenerentola*, *Tancredi* is a serious work, based on a tragedy by Voltaire.

*Tancredi* is set in Syracuse in the eleventh century. As the opera opens, two local kings—Argirio and Orbazzano—are signing a pact ending fighting between them in order to fight the Saracens. Many years ago, *Tancredi* had been banished by Orbazzano, because *Tancredi* has a claim to his throne. By signing the pact with Orbazzano, Argirio had to agree to *Tancredi*'s traitorous status. Argirio also agrees to marry his daughter Amenaide to Orbazzano.

However, Amenaide is in love with *Tancredi*. Immediately after the fighting between her father and Orbazzano ends, she writes to *Tancredi*, asking him to return to save Syracuse. But there is no mention of his name on the letter; only the courier knows to whom the note was to be delivered, and he is discovered and killed by agents of Orbazzano. Amenaide is accused of communicating with the leader of the Saracens and sentenced to death.

In the meantime, *Tancredi* had secretly returned from exile. In order to protect his identity, Amenaide does not reveal that her letter was intended for him. *Tancredi* feels betrayed, but as Amenaide's champion fights and slays Orbazzano. He then goes to war with Argirio against the Saracens and kills their leader. He suffers a mortal wound and, as he lays dying, finally learns that Amenaide has always remained faithful to him. They are married by Argirio just before he dies.

The plot is baroque and is certainly not the strong point of the opera, but the music is good. The current production is conducted by Henry Lewis, husband of Marilyn Horne, who plays the lead trouser role of *Tancredi*.

Set designer John Conklin has created a simple but very nice set. It uses a stationary piece in front. Various rear pieces are used along with a changing series of drops. Good use is also made of lighting to indicate the place and time of day. *Tancredi*'s arrival on stage is rather impressive: he arrives by boat. The only problem with the set was a drop that got hung up on one of the stationary pieces, creating a humorous interruption to the serious mood of the work.

The costumes, designed by Michael Stenett, were gorgeous and sumptuous, especially those for the women.

The performance was quite enjoyable. The singing, for the most part, was quite good, particularly the finale of Act One, the duet in Act Two performed by Argirio (Chris Merritt) and Amenaide (Christine Weidinger), Amenaide's aria immediately following, and Roggiero's aria (sung by Sharon Graham) in Act Three. Unfortunately, Marilyn Horne seemed to be under the weather. Her voice was weak and actually flat in spots. This was most noticeable in a duet with Amenaide, which contained some a cappella sections.

Despite the minor weaknesses, the opera was a success. The company's next production is Verdi's *Otello*, with four performances scheduled between March 25 and April 2.

## Computers Draw

by Mike Ricci

"Where no computer has gone before..." touts the press release for the Computer Animation Show. The film opens with a collage of computer generated film clips set to a rousing "electronic" version of the *Mission Impossible* theme. After the intro, the show consists of a mixture of computer animated shorts, collages of clips by computer animation companies, some documentary dialogue about computer animation, and some of the classic computer animation sequences.

The show contains a number of quite spectacular and entertaining shorts. *Metaphable*, by Tom Hutchinson and Bill Sadler, is an eerie, otherworldly sequence of alien 3-D creatures that fly, jump, and swim through a Jovian-looking atmosphere. One of the more humorous shorts is a joke futuristic commercial advertising *Botco*, *tomorrow's fuels*, *tomorrow's prices*. Finally, *Dance of the Stumblers* done by Steve Segal on an Amiga 1000 computer demonstrates that millions of dollars of computer equipment are not needed to make viable computer animation.

Interspersed throughout the show are documentary sequences describing new breakthroughs in computer animation and the techniques used to make some of the more outstanding pieces of animation. In Walt Disney's *The Great Mouse Detective*, computer animation was combined with standard cell animation in an unprecedented experiment. The success and implications of this new technique are discussed in the film. Also, the show discusses how the computer animated introduction to Steven Spielberg's TV series *Amazing Stories* was created and what problems had to be overcome.

Since computer animation can be as costly as \$3000.00 per second, few people can afford to create shorts purely for entertainment value. Several computer animation companies have shorts in the film that consist of collages of computer animated clips from television commercials. Particularly notable among these are the Benson and Hedges commercials by Abel commercials. In these commercials one sees such things as a three dimensional stone statue of a gazelle turn its head and bound off of the screen. The effect of seeing stone move like flesh is quite impressive.

Finally, a number of "old classics" that have already appeared in other animation festivals are featured. Included are *Red's Dream*, a short about a unicycle dreaming of being in the circus, and *Tony De Petrie*, a short about an over the hill pianist. Also featured is the *Luxo Jr.*, a short about two animated desk lamps that was enormously popular in a previous animation festival.

Overall, the Computer Animation Show provides a very entertaining and informative look at computer animation. It gives a good variety of clips, from abstract animation to pointed commercials, from 1 second flashes to four minute sequences. Unlike other animation festivals, it also provides some documentary on the technology and technique behind some of the animations.

If you are a connoisseur of animation, or interested in learning something about how computer animation is done, or simply looking for something to "veg out" while watching, the Computer Animation Show is for you. The show is being screened in Baxter Lecture Hall on March 5, 7, and 8 (Sunday, Tuesday, and Wednesday) at 7:30 and 10:00pm.

## BLOOM COUNTY

by Berke Breathed



# Meet Pre-Frosh

The Admissions Office and the Alumni Association have arranged for receptions for admitted students and their parents, to be held in the following cities during Spring Break. They will be held, for the most part, in alumni homes. A representative from campus, either faculty or Admissions staff, will be there to present a slide show and discuss CIT. Alumni in the area will also be invited.

If you will be in any of these cities during Spring Break and would

like to attend the reception and speak to these prospective freshmen about Caltech, please call Marcy Whaley in the Admissions Office (x6341) for more information.

- Phoenix, AZ
- Denver, CO
- San Rafael, CA
- San Diego, CA
- Newark, NJ
- Washington, D.C.
- Seattle, WA
- St. Louis, MO

- Milwaukee, WI
- Honolulu, HI
- Palo Alto, CA
- Minneapolis, MN
- Portland, OR
- Chicago, IL
- Salt Lake City, UT
- Boston, MA
- Dallas, TX
- Philadelphia, PA
- Houston, TX
- New York, NY
- Miami, FL
- Detroit, MI

# what goes on

Submit announcements for *What Goes On The Back Page* on forms available outside the Tech office (SAC room 40A) and in the copy/mail room (SAC room 37), or use a plain piece of paper. Send announcements to 40-58, or put them in the IN box outside the Tech office. Indicate the date(s) the announcement must run. Announcements for the current issue must be received by 5 pm Tuesday and should be shorter than 75 words. Announcements will be published as space becomes available and will be chosen according to size and interest to the Caltech community. Announcements for commercial events unrelated to Caltech will not be published.

### Master's Tea

The Master's Office invites you to join us for the second term Master's Tea to be held on Friday, March 10th at 3:30 pm. Please stop by and treat yourself to a large selection of delicious cakes.

### Italian-American Scholarships

The National Italian American Foundation is offering various scholarship opportunities to assist Italian American undergraduate and graduate students. For more information, contact Financial Aid. Deadlines vary through May.

### Need Bookshelf Space In SAC?

One large bookcase in the SAC Student Library (SAC 36) will be opening up very soon. The glass enclosed lockable shelf can hold 21 to 42 linear feet of books. The space could be shared by several organizations. If your club has books it needs to or would like to house in the SAC, please see Nancy Matthews, T.Th.F. 1:30-3:00 pm in SAC 64. The deadline for asking for space is Monday, March 13.

### Political Internship

The Beckman Internship will be available for the summer of 1989. The internship, supported by friends of Dr. Arnold O. Beckman, will pay a stipend of \$2,600. It allows a selected intern to spend the summer working in the office of a politician and to see from the inside the process of government. The intern is expected to make arrangements with the appropriate political persons. It is open to any Techer who intends to be a Caltech undergraduate next year. If interested, submit a brief proposal describing where and how you would use the stipend, to the Deans' Office, 102 Parsons-Gates, by Monday, April 10th.

### Guitar Master Class in Winnett

English classical guitar virtuoso Neil Smith will be presenting a master class in Winnett Lounge on Saturday, March 11 from 1-5 pm. Mr. Smith will hear and teach 8 outstanding southland guitarists. The fee for auditing the class (at the door) is \$5 (only \$2 for Caltech students). Mr. Smith has toured extensively throughout Europe and America and has appeared as soloist with many of Europe's finest orchestras. For further information, call (818) 957-8762.

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### Scholarships On Parade

The Financial Aid Office has applications and/or information on the following scholarships. All qualified students are encouraged to apply. Our office is located at 515 S. Wilson, second floor.

*The National Roofing Foundation* is offering a \$4000 scholarship for full-time students enrolled in architecture, engineering, or other curriculum related to the roofing industry. Applications and information are available by contacting Aimee Anderson, Scholarship Coordinator, National Roofing Foundation, One O'Hare Centre, 6250 River Road, Rosemont, Illinois 60018.

*The Planetary Society* offers a variety of scholarships and awards. Students may obtain details of our programs by filling out and mailing in a postcard (available in the Financial Aid Office).

*The Marin Education Foundation* is offering Marin Educational Grants for the 89-90 academic year. Applicants must be Marin County residents and must complete a SAAC or FAF. The deadline for application is April 1, 1989.

*The American Council of Independent Laboratories* is offering scholarships to one or more women in at least their junior year to further their studies in the fields of physics, chemistry, engineering, geology, or biology. The deadline is March 21, 1989.

*The Danville/Alamo Branch of the American Association of University Women* is accepting applications for their \$500 scholarship to deserving sophomore or junior women from San Ramon Valley. Applicants will be evaluated on the basis of achievement, educational goals, financial need, and campus or community involvement. For more information and application, send a stamped (50¢), self-addressed long envelope to: Ann Fletcher, 64 Larkstone Court, Danville, CA 94526.

*The Air Force Aid Society* has an Academic Grant Program for sons and daughters of both active and retired Air Force members. All eligible undergraduates are encouraged to apply. The AFAS plans to award twenty-five hundred \$1,000 grants nationwide. The deadline is March 21. For more information, contact the Financial Aid Office.

*The American Petroleum Institute* will grant scholarships to students with permanent residency in Kern County. The awards are to be used to further studies related to the petroleum industry. For more information, contact the Financial Aid Office.

*The San Joaquin Valley chapter of the Society of Petroleum Engineers* will be awarding scholarships to qualified full-time undergraduate or graduate students who are residents or former residents of Fresno, Kern, Kings or Tulare counties or Cuyama or New Cuyama, California, or children of current members of the San Joaquin Valley section of SPE. Applicants must be in an engineering or energy-related discipline. For more information, contact Financial Aid.

### Montebello Scholarship

The Montebello Town Center has announced the availability of its scholarship based on merit. This scholarship is available to undergraduate or graduate students residing in Montebello, Bell Gardens, Santa Fe Springs, S. San Gabriel, Alhambra, Whittier, East Los Angeles, La Puente, S. El Monte, Rosemead, Monterey Park, Commerce, Pico Rivera, El Monte, Hacienda Heights, or Temple City. For more information or an application, contact Financial Aid. The deadline is March 31.

### High Noon For S.P.E.C.T.R.E.

S.P.E.C.T.R.E., the Caltech Science Fiction Club, will be holding its next meeting on Wednesday, March 8, 1989 (NOT on March 15 as announced at last meeting) in the traditional Clubroom B/Rm. 15 of the SAC at the traditional time of 7:30 pm. Presentations scheduled include *Blade Runner* and Eppysowde Nyne of *The Prisoner*: "Do Not Forsake Me Oh My Darling."

After watching these two remakes of *High Noon*, be prepared to debate the idea of having S.P.E.C.T.R.E. "Movie Festivals" every month on the Saturday closest to the full moon (i.e., opposite "Star Parties"). If people like the idea, we will start making plans for the first one, to be held at the beginning of third term. Questions? Call Mark Looper (304-0006).

### Work Overseas

Work in Nicaragua, Costa Rica, the Philippines... Interested in working in a technical (electronics/computer science/medical technology, etc...) job in a developing country? Operation California (a non-profit emergency medical and development agency based in L.A.) is looking for people who would like to work (for weeks, months, long term) in resource centers that provide parts, repair facilities and education to students, engineers and businesses in Nicaragua, Costa Rica, the Philippines and possibly Mozambique and Vietnam. For more information about working (for salary) in one of these countries or about the program in general, please call Dan Kammen (x6885) or stop by 12 Beckman Laboratory.

### Women Student Leaders

The Fifth National Conference for College Women Student Leaders will be held June 1-3, 1989 at the George Washington University in Washington, D.C. Over 350 women student leaders from around the country will meet to explore their leadership styles, develop their leadership skills, and discuss issues related to women, both on their campuses and beyond. For more information and how to participate, see poster on bulletin board outside Nancy Matthews' office in the SAC (Rm. 64).

### Big T Dustcovers Are Here

Free dustcovers for your 1988 Big T's may be picked up from either the MOSH's office or Nancy Matthews (Rm. 64 SAC). The dustcovers bear a memorial to the late Richard Feynman. Sign your name before taking one. Only those who have 1988 Big T's are allowed to take one. Brought to you by the ASCIT BOD.

### Rotary Foundation Scholarships

The purpose of Rotary Foundation Scholarships is to further international understanding and friendly relations among peoples of different countries. Both men and women may apply for one of the five types of Foundation Scholarships to complete one academic year of study or training in another country where Rotary clubs are located. If interested, stop by the Career Development Center, 08 Parsons-Gates, for more information on terms of the scholarship and application procedures.

### E.T. Bell Competition

Juniors and seniors interested in fame, fortune and glamour should find a faculty sponsor and submit an entry to the E.T. Bell Undergraduate Mathematics Research Contest. Entries are due by the end of the 4th week of third term.

### Medieval Mayhem

The Caltech Medieval Renaissance Society will be holding a meeting on Sunday, March 12 at 3 pm in the "Y" Lounge. This meeting is especially important for current CMRS members as we will be holding our elections for next year's officers. Interested persons and the merely curious are welcome to attend.

### Research Semester

The U.S. Department of Energy has announced a research program open to juniors and seniors interested in biomedicine, chemistry, materials science, engineering, reactor physics, atomic physics, nuclear physics, high-energy physics, environmental science, geoscience, mathematics, computer science, energy systems, waste technology, nuclear medicine, and automated inspection/measurement systems. The program provides a stipend, housing and travel reimbursement for a variety of activities including hands-on research, seminars, academic courses and advanced instrumentation training. Applicants must be U.S. citizens or permanent residents and must have GPAs of 3.0 or better. For further information, stop by the Deans' Office. Applications are due by March 15, 1989.

### Career Development Tidbits

IBM Latin America is seeking candidates to fill the positions of Marketing Representative and/or Systems Engineer to work in selected Latin American countries. (Openings are for citizens of Argentina, Brazil, Chile, Colombia, Mexico, Peru and Venezuela).

Sandia National Laboratories sponsors the "One Year on Campus" Masters Degree Program. The program provides an opportunity for highly competitive minority bachelor-level individuals to continue their education for a masters degree. Candidates normally work at Sandia for several months to become familiar with the laboratories' environment before beginning the program.

Operation Crossroads is sponsoring a cross-cultural exchange project in Africa and the Caribbean.

Stop by the Career Development Center, 08 Parsons-Gates, for more information.

### Don't Leave Home Without It

Travelling abroad? Don't leave without an International Student I.D. Card. You can obtain it from Ingrid, International Desk, 105 Winnett Student Center, x6330.

### Play With Money

The Caltech Student Investment Fund meets every Wednesday in Millikan Board Room at 5 pm. We have over \$140,000 we use to buy and sell stocks and bonds. Profits buy pizza and soda for every meeting, and pay for dinner at year's end.

### Computer Animation Show

Continuing the tradition of bringing you the best in the world of animations, Cinematech presents *The Computer Animation Show*. This 1987 compilation consists of a collection of 30 computer-animated shorts made since 1982. Included are "Luxo Jr.", "Deja Vu", "Red's Dream", "Hard Woman" (a Mick Jagger video), a selection from the Abel commercials, and a scene from Disney's *The Great Mouse Detective*. The collection (all 30 shorts) will be shown on March 5 (Sunday), 7 (Tuesday) and 8 (Wednesday) at 7:30 and 10:00 pm in Baxter Lecture Hall. Admission charge will be \$1.50 for all.

### Japanese Film

In conjunction with H/Hum 131 "History on Film: Japan," Mitsuo Yanagimachi's 1984 film *Himatsuri* will be screened on Monday, March 6th at 7:30 pm in the Baxter Lecture Hall.

Based on actual events that occurred five years ago, the setting is an exemplary village of old Japan. When a developer comes to this fishing community to propose a tourist park, only the lumberjack Tatsuo opposes him. Immediately, Tatsuo becomes the spiritual link to nature that the community must sacrifice in order to prosper. Tatsuo's decisive moment comes during the annual Fire Festival, a celebration that is said to go back two thousand years—its ceremonies remaining virtually unchanged. It is through the purifying violence of fire that Tatsuo's answer is revealed to him.

The film is English subtitled, and there will be no admission charge.

### Cinematech Goes To The Dogs

This week's Cinematech movie will feature Lasse Hallstrom's *My Life As A Dog*. A smashing success in both critical reviews and box-office receipts during its 1987 U.S. release, this is an exceptional film about children that is not merely a film for children. Set in the late 1950s, a time of Sputnik and the first Johansson-Patterson fight, the film chronicles the often horrifyingly funny but always humanly touching experiences of the 12-year-old Ingemar, who is shipped out to stay with relatives in the country during his mother's illness. While having to deal with the trivialities of real life like how to remove his penis from the neck of a bottle, the boy at the same time ponders the cosmic questions like the philosophical implications of Laika, the space dog, circling endlessly in oblivion. Thus the film begins: "It could have been worse..." reflects Ingemar, as the starchy cosmos stretches endlessly above him. (Presented in the original Swedish dialogues with English subtitles.) The film will be shown on Saturday, March 4th at 7 and 10 pm in the Baxter Lecture Hall. Admission is \$1.50 for all.

### More Women's Scholarships

The American Council of Independent Laboratories is offering scholarships to one or more women in at least their junior year in the fields of Physics, Chemistry, Engineering, Geology, or Biology. For more information contact the Financial Aid Office. The deadline is March 21.

### Need A Club Mailbox?

If your club or organization receives mail, then you need to have a mailbox in the SAC. We have about 100 mail slots, total (about 50 still available). Clubs will be assigned a permanent mailcode by the SAC. Stop by and see Nancy T. Th. F 1:30-3:00 pm or Milly, M-F, 1-5 pm, to receive your club mailbox.

### Yet Another Totem Poll for Art

Attention writers, poets, and artists! The second *Totem* in as many years will appear this spring and will contain a diverse, if not complete collection of Techer-expressed wisdom and imagination. Address submissions to 116-58. For information contact Sam Dinkin (1-59 or x3828), or Erik Russell (Annex #5, 1-59, x6188). Copies of previous issues of the *Totem* are available.

### SAC Has Big T's

If you are entitled to receive a 1988 Big T and are having a hard time finding one, come to the SAC! Nancy, SAC Coordinator, has Big T's in Rm. 64. Simply sign your name on the Big T list when you take one. Note: those not entitled to receive one may also take one and be billed \$24 by the Big T.

### Join A Computer Club

New to computers? Want to meet other computer enthusiasts? Willing to help others? Join CPU. With our growing library and knowledgeable members we can help you solve almost any computer problem. Come to our meetings Mondays at 5:15 pm in Rm. 15 SAC. Next discussion topic: using electronic mail to talk to other campuses.



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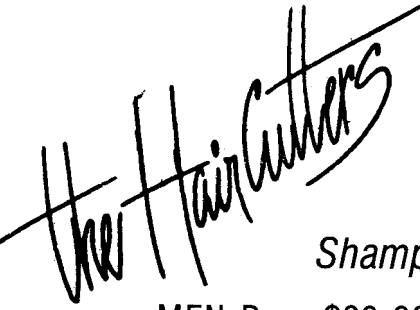
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