

# The California Tech

WEEKS!

**VOLUME LXXXIX NUMBER 28** 

PASADENA, CALIFORNIA

FRIDAY 20 MAY 1988

# International Day

by Andrew Hsu

Imagine being able to sample food from all parts of the world and listen to music native to various ethnic groups all without leaving the confines of the Caltech Campus. Now with a little help from Bassem Mora, fantasy has become a reality as the firest Caltech International Day takes place today.

The activites begin at 4:30 and are schedueld to continue until 8:30 pm. These activities include live music, free food, games, slides, videos and crafts from many countries around the world. All activities and food are free with for any member of the Caltech or JPL community and with normal board

The Arabic group that perform next will not only play folk songs but also the latest in Arabic pop. The group will also feature a belly dancer which will groove to the music. The Arabic music set, according to the event producer Bassem Mora, promises to be loads of fun and entertainment.

After the Arabic group, Chinese folk songs can be heard, performed by a Chinese singing group. This is followed by an ensemble of UCLA students playing Turkish songs. All the music will be performed on a stage just outside the bookstore, where noon concerts are traditionally held.

dinner also being served on the Olive Walk, there's little reason not to attend this big gala event.

The live music begins at 4:30 with a duo performing Jewish folk songs. They will sing both Yiddish and Hebrew tunes in their set. Scheduled next, are a group of Indian performers who will play various music accompanied by a sitar and a a tabla. If you are interested in hearing what sitars and tablas sound like before tonight, you might want to listen to some old Beatles songs written by George Harrison since he incorporated these instruments in many of his songs.



Tracey Ollick and Christopher Chu rehearse on the piano for tonight's chamber music concert in Dabney Lounge at 8:00.

### ber music concert in Busicy Louinge at 0.00.

Alumni Seminar Day

by Stephen Lew

Caltech will host this Saturday the 51st Annual Alumni Seminar Day. Sponsored by the Alumni Association and Caltech Development Office, Seminar Day gives both students and alums a chance to attend seminars covering the latest findings of Caltech researchers.

In past years, Seminar Day has included such a variety of talks on fascinating subjects that one seminar was bound to catch your interest. This year is no exception. This year there will be 13 seminars presented by faculty researcher and presentations made by 3 SURF

Speakers from the faculty who will present seminars, and their topics, include: John D. Baldeschwieler, professor of chemistry, "Cancer Diagnosis and Treatment: New Technology"; Paul E. Dimotakis, professor of aeronautics and applied physics, "Chemically Reacting Flows Combustion"; Jeff Dozier, senior research scientist, geology and planetology section, JPL, "Measuring Snow Properties from Satellite"; Geoffrey C. Fox, professor of theoretical physics, "Concurrent

Supercomputers - A Revolution in Computational Science?".

Hiroo Kanamori, professor of geophysics, "Forecasting Ground Motion: The Big Shake"; Shrinivas Kulkarni, assistant professor of astronomy, "Born Again Pulsars"; John O. Ledyard, professor of economics and social sciences, "Methodology for Conflict Resolution"; Henry A. Lester, professor of biology, "How the Brain Communicates: A Molecular View"; John H. Richards, professor of organic chemistry, "Molecular Biology: No Longer Just Bird Watching."

Eleanor M. Searle, the Edie and Lew Wasserman Professor of History, "Power-Building: Vikings into Normans"; Richard J. Terrile, planetary astronomy group supervisor, JPL, "Prospecting for Planets: Searching for Other Worlds"; David C. Van Essen, professor of biology and executive officer for neurobiology, "How the Brain Interprets What We See: A Neural Systems Approach"; Peter J. Wyllie, professor of geology, "Two Years Behind a Dog Sledge: Geology on a Greenland Expediction"

dition."
In addition to the faculty researchers, three SURF students will describe their summer research projects. They are Rachael Clark who will talk on "Cranial Hemorrhage Detection;" Kin Ha, "Pork Barrel Approach to Science Funding;" and Jeffrey Tekanic, "Gene Regulation: Molecular Aspects."

Keeping with tradition, President Everhart will welcome the alumni to Seminar Day and present the Distinguished Alumni Awards. This year there will be 4 people receiving awards: Benoit B. Mandlebrot, IBM fellow and creator of fractal geometry; William R. Sears, professor in AE and ChE at the University of Arizona and founder of Cornell's Graduate School of Aeronautical Engineering; Hung Chang Yin, Director Emeritus of the Institute of Plant Physiology at the Chinese Academy of Sciences in Shanghai and a leading authority photosynthesis; and Robert W. Zwanzig, Distinguished Professor of Physical Science at the University of Maryland and pioneer in the field of nonequilibrium statistical mechanics.

This year's general session speaker will be Dr. James C. Fletcher, Head Administrator of NASA, talking on "Space: The Challenges and Opportunities of the Future." Dr. Fletcher received his PhD in physics from Caltech and was a recipient of Caltech's first Distinguished Alumni Award

please see SEMINAR, page 5

# Requirements Change

by Eric Fung

Major changes affecting graduation requirements and academic standards for students have been made. The Undergraduate Standards and Honors Committee (UASH) and the Ad Hoc Committee on Undergraduate Graduation Requirements submitted their proposals at the Faculty Board meeting, Monday, May 16.

Most importantly, the total number of units required for graduation will be reduced from a maximum of 516 to 486 (see chart).

Some of the changes made were based on recommendations made

# Safety First Requirements Unit Com

by Lynn Hildemann

According to Hall Daley in Caltech's Public Relations Office, the Pasadena Police Department has identified California Boulevard, between roughly Catalina and Hill as a stretch of road with a much higher than average accident rate.

To reduce speeding, the Police Department plans to set up their automated photoradar device along that stretch of road to photograph speeders. Initially, plans are to only mail warnings to violators, but later on, tickets will be issued.

In addition, a second automated monitoring device will be used to catch cars that run red lights. This device will not be used to issue tickets, but violators will receive warning notices.

The police department hopes that these measures will act as a deterrent to those who habitually speed along California Boulevard, and thereby reduce the accident rate in the area.

Users of automated tellers in the Pasadena area should exercise good judgement and caution in withdrawing money. Automated tellers have become popular "hangout" areas for would-be robbers during off hours. According to Merry Keith in Caltech's Security Office, police reports received by her office show that tellers near the corner of Lake and Colorado have been the target for two robberies recently. One occurred about 10:30 at night, and the other at about 6:30 in the morning.

by the Ad Hoc Committee Core Curriculum, chaired by Sunney Chan who is presently Chairman of the Faculty.

That committee, in its report, argued that the core curriculum needed to change to allow students "to acquire a somewhat broader scientific base, and that will make integrated learning and intuitive reasoning a somewhat greater component of the Caltech educational experience."

To do this, it was argued, required the introduction of "flexibil-

ity" to allow "sampling and enrichment in the sciences without overloading."

The changes reflect this belief. However, because the changes were presented only this week, the *Tech* was unable to present all the information in full detail. Accordingly, only a fraction of the changes are presented here since many of the changes require explanations describing both rationale and the mechanics of the changes. As information becomes available, they will be reported.

### **Changes Affecting Students**

coming of	uuciits
Old	New
Max of 516 59 or more Yes Varies	Max of 486 55 or more* No Wed., 8th week
	Old Max of 516 59 or more Yes

# Seminar Day Schedule

	Beckman Auditorium	Ramo Auditorium	Baxter Lecture Hall	201 E. Bridge	153 Noyes	119 Kerckhoff
8:15 a.m.	REGISTRATION —	- Dabney Lounge				
Session I 9:00 a.m.	How the Brain Interprets What We See: A Neural Systems Approach	Forecasting Ground Motion: The Big Shake	Prospecting for Planets: Searching for Other Worlds	Power-Building: Vikings into Normans	Chemically Reacting Flows Combustion	
	D. Van Essen	H. Kanamori	R. Terrile	E. Searle	P. Dimotakis	
Session II 10:15 a.m.	Concurrent Supercomputers — A Revolution in Computational Science?	Two Years Behind a Dog Sledge: Geology on a Greenland Expedition	Molecular Biology: No Longer Just Bird Watching	Methodology for Conflict Resolution	Born Again Pulsars	Measuring Snow Properties from Satellite
	G. Fox	P. Wyllie	J. Richards	J. Ledyard	S. Kulkarni	J. Dozier
Session III 11:15 a.m.	PRESIDENT'S W	ELCOME AND DI	STINGUISHED A	LUMNI AWARDS	— Beckman Audi	itorium
Session IV 12:00 p.m.	Power-Building: Vikings into Normans	Cancer Diagnosis and Treatment: New Technology	How the Brain Communicates: A Molecular View	Chemically Reacting Flows Combustion	Measuring Snow Properties from Satellite	SURF Student Speakers R. Clark K. Ha
	E. Searle	J. Baldeschwieler	H. Lester	P. Dimotakis	J. Dozier	J. Tekanic
2:45-2:00 p.m.	LUNCHEON - To	be served on Olive W	alk near the Athenae	um		3,0,1,
Session V 2:15 p.m.	GENERAL SESSIO	N — Dr. James C. Flo	etcher — Beckman A	uditorium		
Session VI 3:15 p.m.	Forecasting Ground Motion: The Big Shake	Prospecting for Planets: Searching for Other Worlds	How the Brain Interprets What We See: A Neural	Methodology for Conflict Resolution	Concurrent Supercomputers — A Revolution in	SURF Student Speakers
	H. Kanamori	R. Terrile	Systems Approach  D. Van Essen	J. Ledyard	Computational Science? G. Fox	R. Clark K. Ha J. Tekanic
Session VII 4:15 p.m.	Cancer Diagnosis and Treatment: New Technology	How the Brain Communicates: A Molecular View	Two Years Behind a Dog Sledge: Geology on a Greenland	Born Again Pulsars	Molecular Biology: No Longer Just Bird Watching	
	J. Baldeschwieler	H. Lester	Expedition P. Wyllie	S. Kulkarni	J. Richards	

### The California Tech

EDITORS—Eric Fung • Stephen Lew • Chandra Tucker

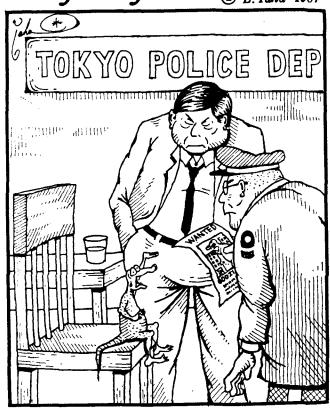
ENTERTAINMENT Andrew Hsu

SPORTS Scott Kister

**Рното**ѕ Alex Athanasopoulos **ANNOUNCEMENTS** Josh Kurutz

### Odyssey

© L. Taha 1987



Look fellas, you've got the wrong guy! He was a lot taller than me maybe, 150-200 ft.

# opinion

# Behind a Brick Wall

By Chandra Tucker

Here at Caltech, we are surrounded on all sides by a fortification of science and technology. All that we do here is in some way affected by or based on this great wall of science.

In some ways this technological confinement is wonderful. Tech is a close, intense community of thought. Imagine thousands of brilliant minds all concentrated in one place, all concentrating on science--without many of the distractions of society at large. A researcher can just concentrate on pure research, forgetting all else in his search for knowledge and discovery.

It is here that, as Einstein said, a man "escapes from his noisy, cramped surroundings into the silence of the high mountains where the eye ranges freely through the still pure air and fondly traces out the restful contours apparently built for eternity."

This is Tech: an institution having close to 20 Nobel Laureates, considered to have some of the top departments in the nation, perhaps even the world. In mathematical terms, Tech equals science. It would take ages to go through all the technological advancements that have sprung from Caltech faculty, or mention all the Tech graduates who have gone on to scientific fame.

Yet the very characteristic of Caltech that enables such accomplishments at the same time isolates us from the world of "nonscience". That great wall, although impressively and powerfully built, although creating a very productive atmosphere, inhibits us from peering over it into the world beyond.

And so, other aspects of life are missed in the concentration of science. Where is art, and literature? And what about the great philosophers and thinkers-thinkers of ideas other than technology. And there is still more to life: lying on a sun-warmed beach, riding a bicycle down a steep hill, eating bizarre foods, getting to know people and cultures and beliefs and ideas.

That great wall keeps much of this out, yet the issues that are addressed within inevitably have farreaching and long-lasting effects on not just the scientific community and the advancement of technology, but society-at-large.

Behind the wall, science is everything. Consequences do not exist. The real world we see on the news and in the papers is far away. Concepts of world problems-poverty, war, pollution--all become reduced to technological terms, and have little meaning otherwise, as they lie beyond the safe, secure wall.

One can recall a time in history, in the 1940's, at a place a bit like Caltech. Los Alamos, I believe, was the name. Scientists, busily, intensely, frantically working, learning. Discovering a whole new and amazing and majestic field. Applying concepts they had only dreamed about. Walking through Einstein's high and silent mountains. Working in the name of science, working without thinking about the results of their labors. Consequences? What consequences? All we see is brick.

Last week, the Tech incorrectly gave a photo by-line to Teresa Griffie, when indeed the photo was taken by Alex Athanasopoulos. The photo is the one on the top right, page 9.

# etters to the editors

## **Empty Pursuit**

To the Editors:

I strongly disagree with Jay Freeman, who claimed in his letter last week that little came from the efforts of the activists of the 1960's. Their contributions had enormous impact on the events of the day and the quality of life in this country. Freeman's faith that minimizes the lasting effects of these events is dangerous and should be discarded rather than

The names of the people who shouted, "Make love, not war!" may not be remembered, but their outcry constituted the drive to end the Vietnam war. Freeman thinks that Steve Wozniak made significant contributions to his fellow man by starting his computer company. When put in a less introverted perspective, however, ending the war had far more historical significance than advancing microcomputer technology a couple of years.

Freeman failed to recognize that activists of the '60's are remembered in the laws of this nation. Issues of civil rights, women's equality, and ecological destruction, to name a few, were thrust upon an American public that preferred to remain blind to social injustices. Because of the efforts of nameless people, racial and sex discrimination is illegal, corporations that degrade or pollute the environment are taken to court and held responsible for their actions, and women can legally obtain abortions. (Regardless of people's strongly polar opinions on this practice, its legalization is regarded as a milestone in the fight for women's rights).

I doubt that the concerns expressed by Freeman and his pizzaeaters could possibly compare in importance to the issues tackled by the students whose freedom of speech was suppressed with tear

Freeman claimed that those handing him handbills were, "bent on modifying civilization to suit themselves." Most of them, I contend, were far more interested in bettering conditions for their fellow citizens, as can be seen from the examples presented above. I suspect these people had much less selfish interests than Freeman's

friends, one of whom is now a multimillionaire.

It seems that Freeman thinks that science and technology are the only aspects of life of any importance. This narrow-minded view excludes the reality that these fields are just part of the gargantuan array of important and difficult challenges taken on by human beings. Science has its place in the rest of society, and without the non-scientific majority of civilization, science is an empty pursuit. -Josh Kurutz

### Un"faith"ful

To the Editors:

Oh ye of little "Faith" (Tech 5/13) rejoice! Unto us has come a saviour to free us from our own consciences. Slaves of science be free, be self-righteous, and be J. R. Freeman. In the back alleys of Berkeley is born a truth which no man or woman can deny. Merely obey the tenets of Freeman's "Faith" and thou shalt be free:

1. Thou shalt condemn all those who work for social change, because they are all "bent on modifying civilization to suit themselves.' (J.R. 1:7)

2. Thou shalt deny the value of any social or political cause which does not achieve its goal. Freely exchanged ideas are useless, free thought results in nothing, and free speech is only worthwhile if it's about science and over pizza.

3. Thou shalt shun those who strive for social justice and not for fame. If thou can't remember their names, then what good are their ideas?

4. Thou shalt extol the virtues of Steve Wozniak, a man who has lost millions putting on rock concerts so that people will know his name

5. Thou shalt compare Apples (computers) to oranges and any efforts toward social change.

6. Thou shalt not respect efforts for social change because J. R. Freeman discovered from the back alleys twenty years ago that these efforts have since "mattered all but naught," (J. R. 1:24) and this obviously still holds true.

Follow these tenets and thou shalt shave the enlightenment of J. R. Freeman. Thou shalt come to know the shell of his "Faith" and will be welcome to hide therein.

-Dan Jones Grad. Chemistry

# THE CALIFORNIA TECH

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REPORTERS

Alex Athanasopoulos • Ray Bamba Larry Cheng • Gavin Claypool Lynn Hildemann • Eugene Lit Carmen Shepard • Dawn Sumner

PHOTOGRAPHERS Teri Engelhard • Teresa Griffie Delores Bing

> PRODUCTION Nick Smith

BUSINESS Jimmy Yang

CIRCULATION Gavin Claypool Eric Fung Andrew Hsu Stephen Lew Michael Keating

THE CALIFORNIA TECH 25-58 SAC California Institute of Technology Pasadena, California 91125

Phone: (818) 356-6154

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## ASCIT FRIDAY NIGHT MOVIE

### **NEVER SAY NEVER AGAIN**

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7:30 & 10:00 pm \$1.50 for others

NEXT WEEK Cavegirl

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# entertainment

# Chamber Music Concert

by Andrew Hsu

Tonight at 8:00 in Dabney Lounge, the Office of Student Affairs is sponsoring the third and final chamber music concert in the month of May. Not only is the admission free but a reception will be held after the concert where the audience and performers can mingle and also taste the latest in culinary delights.

Tonight's concert will feature 16 performers which range from freshmen to post-docs and a staff member. What's more, Delores Bing, the chamber music instructor at Caltech, will perform at the concert. With such a wide range of performers and instrumentation, the chamber music groups will play pieces not normally heard at standard chamber music concerts.

**ENGINEERS** 

**OVERSEAS** 

-shuffle papers and answer

-wear a suit and tie

-sit at a desk all day

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gas wells

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-take charge

DO:

The most interesting piece scheduled for tonight is the Gemini Variations by Benjamin Britten. What makes the composition unusual is that the performers, Tracey Ollick and Christopher Chu will alternate between playing piano and their other instrument-flute for Tracey and violin for Chris during the course of the variations.

The 14 different variations that comprise the Gemini Variations were written by Britten for Zoltan and Gabor Jeney, two twelve year old twins that were the sons of one of Budapest's most distinguished flute players. As Britten wrote, ...they approached me and charmingly, if not forcefully, asked me to write them a work. Though I claimed that I was too busy, my refusal was brushed aside..." Britten wrote the work between 1964

and 1965 and the work was premiered at the Aldebugh Festival on June 19, 1965. Ms. Ollick and Mr. Chu are scheduled to play the Variations in its entirety.

Also on tonight's program is Mozart's Quintet in E-flat Major, K452. A group comprised of 4 undergraduates and Delores Bing will perform the second and third movements of this historically well-received composition.

The quintet, which was originally written for woodwinds and piano, will be played by strings and piano this evening. Mozart wrote this quintet in March of 1784 and during that month Mozart also performed 20 concerts and composed two piano concertos! Quite a bit of work even for a musical genius. This quintet was very well received at its premiere in 1784. Mozart later wrote a letter to his father stating, "I composed two grand concertos and then a quintet, which received enthusiastic applause. I myself consider it to be the best work that I have ever written...

In addition to the works by Britten and Mozart, the other pieces that are scheduled for performance are Trio in A minor, Op 114 by Brahms, Trio in G minor, Op 63 by von Weber, and Trio(1926) by Poulenc. The trios, while lacking more interesting names and background stories like the first two pieces, promise to be musically interesting and varied according to Dawn Sumner, a member of the von Weber trio.

Music, especially chamber music, was never meant to be a selfish art form. Although the performers have the main role by playing the music, the audience is equally important because music must be shared if it is to be performed correctly. The audience is not just a group of people that are listening to a performance but a group of people that are actually involved in the performance.

Become involved in Caltech's chamber music program by attending tonight's concert at Dabney Hall at 8:00. It's an easy and inexpensive way to listen to and participate in some great music.

The Francophile Club of Caltech has been presenting a series of French Films on Thursday at 8 PM in Baxter Lecture Hall. Admission is free to the Caltech and JPL community. All films have English subtitles. This week's film is The Woman Next Door, a film by François Truffant. For more information, call Josette Banroques at ext.



Auditorium last weekend.

# "Flawless" Cello

by Eugene Lit

In his performance of Bach's six suites at the Ambassador Auditorium last weekend, Yo-Yo Ma once again proved his standing as one of the world's foremost cellists. Mr. Ma performed suites Nos. 1, 5 and 3 on Saturday, and performed the remaining suites on the following evening. Although his interpretation of the suites was very orthodox, Yo-Yo Ma's distinctive intensity and concentration made this performance unique nevertheless. It was a privilege and a delight to listen to his flawless performance. Although I only attended the Saturday performance, I am confident that the Sunday concert was of equal caliber.

Unfortunately, the acoustics of the Ambassador Auditorium, were perhaps not as flawless. Although they were fine from my seat, another member of the audience reported that the seats near the back of the hall were plagued with extraneous sounds from the outside, as well as poor sound projection. Outside of this, there were additional problems with the electrical system, including a variance in the auditorium lighting during Mr. Ma's performance, and also an annoying high-pitched drone during the first half of the performance. During the second half, however, these problems were eliminated.

The six suites were apparently written by Bach for Christian Bernhard Linigke. As the name implies, each suite is composed of a num-

ber of sections, consisting of a prelude, an allemande, a courante, a saraband, either two menuets, bourrees, or gavottes, and ending with a gigue. These particular pieces provide a special challenge, in that they are performed completely unaccompanied. For the same reason, however, Yo-Yo Ma was able to provide a performance entirely his own. The suites are also technically challenging. In addition to the high technical expertise required, suites 5 and 6 also hold additional challenges. In suite 5, the highest string on the cello must be tuned down from the standard A to a G. This tuning, known as scordatura, was common in Bach's time for at least the violin, and gave the player the advantage of certain chords which would otherwise be difficult or impractical. In suite 6, an extra E string was added above the A string, which not only makes the suite technically harder, but presents certain interpretative problems as well. However, on the modern cello, which does not easily accommodate an added string, the performer must compensate with high positioning on the A string.

Yo-Yo Ma was born in Paris, and began studying the cello at age four. Later, he continued his studies at Juillard, and graduated from Harvard University. He has played in a string quartet with Gidon Kremer, Kim Kashkashian and Daniel Phillips. The four have please see YO-YO MA, page 4

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## entertainment

breakfast of eggs and bacon. Or

even using the men's room in a

knowledge of the Outback and a bit

of street smarts to provide even

more entertainment. Since Rico

and his boys are tracking Mick and

Sue, Mick sets some traps for

them. The best one (in my opinion)

is the one that uses Sue's bra as the

a success was its ability to make

fun of life. Mick was perfect to do

this: he was someone with a dif-

ferent perspective. Fortunately this

is preserved in the sequel. But what

makes this movie triumph over the

original Crocodile Dundee is that

it goes beyond the Austrailian

novelty of the first movie by adding

be sure to stay for the credits.

You'll get a laugh out of the names

of characters like Mohawk Punk,

and Toilet Citizen. The music by

Peter Best is also worth the wait.

day at a theater near you. Don't

worry about missing it, I'm sure it'll

be around for most of the summer.

Crocodile Dundee II opens to-

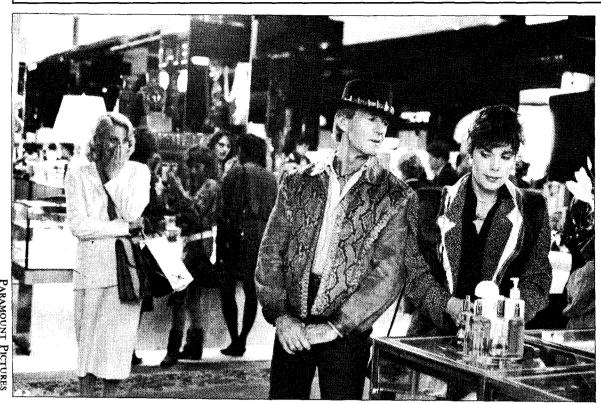
If you do go and see this movie,

a genuine story.

What made the original movie

In Australia, Mick uses his

public building.



While shopping with reporter Sue Charlton, Dundee continues to discover how funny life in New York City can be.

# Crocodile Dundee II

Going to the movies today isn't the same as it used to be. It seems as if every summer, Hollywood producers decide that everything was so great last summer that they should do it all over again (Rocky, Friday the 13th, et al).

Before I went to see *Crocodile* Dundee II, I was skeptical. Could the sequel of a movie could be better than the original? After seeing Crocodile II, I think so.

For those of you who missed the original movie (always a danger with sequels), it features Mick "Crocodile" Dundee (played by Paul Hogan) and Sue Charlton (played by Linda Kozlowski). In the movie Mick, a modern "cowboy" of Autstralian outback, and Sue, your stereo-typical newspaper reporter from New York, meet, fall in love, and have an adventure.

Crocodile Dundee II takes off where the last movie leaves off. At the start of the movie, they are back in New York living one of those "happily-ever-after" endings. This only lasts for a short time as one of Sue's ex-Tarzan-boyfriends unwittingly launches Mick and Sue into yet another adventure involving murder, drugs and romance.

The plot resembles a typical adventure movie. Rico, an international drug dealer, is photographed committing a murder by Sue's ex who sends the film to Sue in New York. Rico tracks it down and kidnapps Sue. In typical cowboy fashion, Mick comes to the rescue and helps Sue escape. Unfortunatly, Rico wants his revenge, so the Mick takes Sue back to Australia for protection. There, Mick, Sue, and Rico have a final confrontation: this time in Mick's backyard.

I'll try not to spoil the movie for you, but the funniest moments in the movie are the gags that are played. After seeing the movie, perfume and cologne will never be the same. Nor will a simple

At present, Yo-Yo Ma plays two cellos: a 1733 Montagnana from Venice, and a 1712 Stradivarius belonging to the late Jacqueline Du Pre.

The Ambassador auditorium is located on 300 West Green Street near the Pasadena Plaza. The auditorium regularly features some of the top names in classical musicians such as Yo-Yo Ma. The next event at the auditorium is the National Ballet of Canada. The ballet will be at the Ambassador from May 30 to June 5 and their seven appearances will include performances of Tchiakovsky's Onegin, Balanchine's Four Temperaments, and Tetley's Alice.

### **ACADEMY** BARBER SHOP

27 No. Catalina, Pasadena Open Tues.-Sat., 8 A.M.-5 P.M. 449-1681

### Yo-Yo Ma, cont. from page 3 recently released an album of

Schubert Quartets. In addition, he

regularly performs with Emanuel

Ax, and the two have made many

recordings together, including the

complete Beethoven and Brahms

Cello Sonatas.

tour of U.S.S.R.

With Issac Stern, Mr. Ma has recorded the Brahms Double Concerto with the Chicago Symphony and the Brahms Piano Quartet with Emanuel Ax and Haime Laredo. Recent performances include appearances with the Boston Symphony and chamber ensembles at the Tanglewood Festival, and appearances with the Philadelphia Orchestra at Saratoga Performing Arts Center. His 1987-1988 season included a tour to the Far East the the United States with Isaac Stern and Emanuel Ax, and plans for a

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# **Animated Shorts**

by Ray Bamba and Dawn Sumner

The Festivals of Animation shown each year at P.C.C. have become recognized here on campus as opportunities for evenings of great entertainment. Monday and Wednesday, Cinematech is bringing the 19th International Tournee of Animation (1985) to Baxter Lec-

For those who have not been clued in, these are not your ordinary Saturday morning cartoons. Every one of the twenty short films is a masterful example of the art of animation. The collection is composed of award winning shorts from nine different countries. In addition to having films made with the familiar techniques of painting and drawing, the Tournee also includes impressive works in claymation and computer animation. In fact, one of the most hilarious five minutes of the evening comes as we watch a clay woman preparing soup in a film from Hungary called Luncheon, Tony de Peltrie, a Canadian short, has become a landmark in computer animation as a result of its portrayal of the emotions of an aging piano player.

The range of unusual motifs and devices employed by the artists leave us marveling at the imagination and eccentricity of the minds that created them. In the British short, Skywhales, the inhabitants of a distant planet hunt flying whales in pedal propelled flying boats and enact one of the shortest epics one will ever see. Some of the shorts are worth seeing for their unique concepts alone. For instance Jumping gives us a tour of the world through a series of higher and higher jumps. Anijam shows what happens when twenty-two animators have a jam session, each one creating a scene having only seen the final frame from the previous

For only \$1.50, the 19th International Tournee of Animation at Baxter is an opportunity that can not be passed up. Show times will be 7:30 and 10:00pm on Monday, May 23 and Wednesday, May 25.

# Home Concert

by Carmen Shepard

This Saturday evening at eight o'clock in Beckman Auditorium the Caltech Glee Clubs will present their Spring Concert. Unlike the December concerts in Dabney Lounge, there are plenty of seats available, so if you have not gotten your ticket yet, it is probably not too late to get one. Both Glee Clubs and the Chamber Singers will perform, as well as both the men's and women's barbershop

The Men's Glee Club, directed by Don Caldwell, will be singing selections from Carl Orff's Carmina Burana, accompanied by a good-sized collection of horns, pianos, and what-have-you, as well as a variety of other pieces, some serious and some not-so-serious.

The Chamber Singers, also directed by Don Caldwell, will feature Clément Janequin's Le Chant des Oiseaux.

The Women's Glee Club. directed by Monica Hubbard, will not only sing, but they will dance. too, to a medley of songs from the twenties, some of which should be familiar even to those of us who did not live during the twenties.

The Glee Clubs will also perform as one group, singing a medley of songs from the musical Les Misérables and concluding the evening with the traditional Salvation is Created and the Alma Mater.

With one ticket you get tradition, fine music (from spirituals to opera, both serious and fun), and an enjoyable evening. If you have not gotten a ticket yet, be sure to purchase one for yourself and one for a friend from any member of the Caltech glee clubs or through the Caltech Ticket Office. Remember, next year you could save the money for the cost of the tickets by singing in, rather than listening to, the Spring Concert.

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## entertainment

**Comedy Revue** 

# Smothers Bros.

by Gavin Claypool

It really happens. Your horse comes in. The Nobel committee wakes you up early one October morn. A show you booked a year ago with name performers is now a show with NAME performers.

Tom and Dick Smothers brought their stage show to a crowded Beckman Auditorium last Friday, riding on the wave of their recent triumphant return to network television. Backed by the Mike Preddy Trio, their songsinterrupted-by-comedy routines, often familiar to their fans and viewers, were warmly received.

In his nod to the concert locale, Dick mentioned that the brothers had grown up in Altadena, not far from Caltech. Rhetorically, he asked Tom to think about "how much advancement in science and technology has happened here [at Caltech]." Tom responded (hypothetically), "About 137,000 metric tons."

In an excellent piece of musical transposition and one-upmanship, Tom and Mike Preddy performed

"Dueling Banjos" — rearranged for guitar and piano. Their timing was bad, from Dick's point of view: in order to duel, they broke off accompanying him as he was singing one of his favorite songs. (Dick has many favorite songs, which he never gets to finish.)

Although his role is that of the literal-minded, not-so-clever brother, Tom almost always gets the last word, often a subtle gibe at politics or another sacred cow. But his appearances as the Yo-Yo Man allow him to show another side: a skillful showman, who's only dumb in the sense that he mimes this role. It's good to see more of his talents exposed within the Smothers Brothers setting.

Tom's most famous complaint

"Mom always liked you best"—
was not in evidence and perhaps
has been retired forever (the
brothers' mother passed away earlier this year). But the ability of the
Smothers Brothers to play endless
variations on their sibling ribaldry
keeps their show fresh and
exciting.

# Seminar, cont

In addition to the regular sessions, there will be several special programs and exhibits featured throughout the day. In the synchotron Room, Ed Felten, and Steve Otto will be demonstrating a computer chess program on a hypercube. JPL will have a Space Exhibit in Millikan Board Room. The Mineral and Gem Collection in Arms Laboratory will be on dis-

play. These are just a few of the many special programs during Seminar Day.

Don't worry if two lectures you want to attend are at the same time; a few of the lectures are given twice so as many people as possible can be accommodated.

Alumni will be able to attend a wine and cheese reception with President and Mrs. Everhart in the garden of the Alumni House, and dinner in the Athenaeum. The Caltech Glee Club will end-out the day with a home concert at 8pm in Beckman Auditorium.

















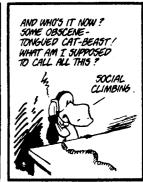
### **BLOOM COUNTY**

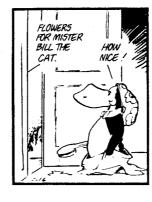
### by Berke Breathed



















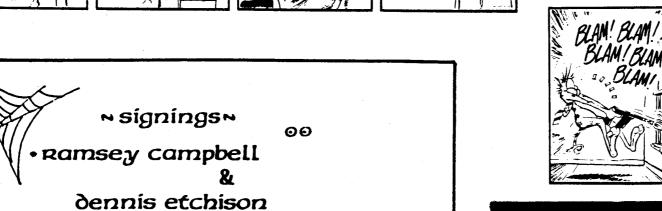






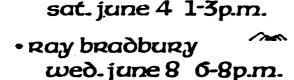








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It has come to our attention that many Techers were under the impression that the 8th annual GNP Ditch Day Sale was going to be held the weekend of the 21st. **0 0 P S!!** In deferrence to those who planned their weekend around this unfortune misconception, GNP is offering a second chance to take advantage of these once a year deals! Come in before 5-23-88 and say "00PS!" to take advantage of our Ditch Day pricing!

GNP SHOWCASE 8th ANNUAL DITCH DAY SALE MAY 13-15
ALL WEEKEND FROM 11:00 AM FRIDAY TO 5:00 PM SUNDAY

PRICES FOR STUDENTS/FACULTY AND ALUMS ONLY -- ID ABSOLUTELY REQUIRED FIRST COME-CATCHES THE EARLY...OH WELL, YOU KNOW!

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+	TECHNICS	31-8202	DIRECT DRIVE 'S' ARH	\$170.00	990:00 U
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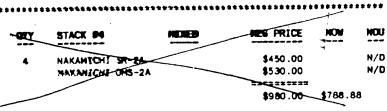
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3 ENERGY	ESM-3	8" 2 WAY	\$250.00	\$198.88 N 7
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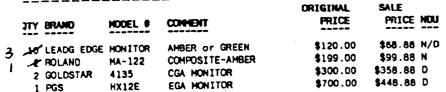
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## The Inside World

This week's Inside World was brought to you by:

Blacker: Chris Hurwitz Dabney: Brian Lemmoff

Fleming: Kent Nordstrom and Pierce Wetter Lloyd: Paul Socolow

Page: Dean Wilber Ricketts: Su-Lin Wu

Ruddock: Betsy Andrews, Wayne Leukens, Munir Bhatti

Blacker: A Blacker Inside Werld Production

Sermon o' the Week

A bicycle rides

!kniP

nataS nataS nataS! Under the bulging stream, cabinet

Falls through the spherical pizza, no,

That doesn't make sense,

Tsetse flies. Swimming in a vat

(frosh?)

Once when why because.

−Da Pope

"Frantic. Running. Away. Brad! JAMES!!

(A tale in one part)

It was one of those days. Three and a half hours of grueling chem lab later, I was looking forward to a relaxing afternoon in my room. As I recline in my skybed boudoir, the image of my TA asking for last term's lab note book slowly fades to soft oozing pizza...Suddenly, my room explodes into a phantasy phrenzy

of scintillating neon. Oh no! Did I say oozing?

A knock on the door. "Hi Anna!" AAAAAUUUUUGGGGHHHHH!

Soft blue light emanates from the fissures in the door. Do I make a break for it? Or hyperspace out? Strange music pervades the background. I knew what I had to do. "Twin Sister!!!!!!" The blue glow ebbs, drowned beneath the pounding of feet. Ack! ROOM PICK! I had to make a break for it. I stealthily scampered across the house, ducking into cabinets and empty trash bins, evading the wandering eyes of a dozen googly frosh. Oh no! A Brad! He's seen me.

AAAAUUUUUGGGGGHHHHHHH! Leep-laser! Leep-laser! Inactive. Whew! That was close. Better get away. I whistled through Cannes, sloshed through Pub, trudged through the Swamp, ducking frantically into a room full of nerd machines. On one glowing terminal, I saw my life being played out by Dr. Death. His fingertips dancing magically on the keyboard, a sly smirk etched into his thin visage.

"Dave! Dave! What can I do?" I shouted spaztically as a thousand technicolor James's converged on glowing "A"

"Get a clue, you stupid frosh. Drop a glom-bomb."

The screams of a James and a Brad fizzling into a slimy pool of molten glom lightened my heart. The worst was over.

Yet somehow I knew, the game would never end. A knock on the door. "Hi Tanya!" . . .

-Random Frosh Girl

And now to our sports desk, with an in depth report on the local bonanza of athletic prowess.... "Marty?" 'Yeah! So we played Phlegm, I mean Fleming hier aprez-midi. Yeah! We

were all over 'em. We snuffed 4 of their 6 extra point attempts, and they didn't stop any of our 0 attempts, despite da Peach's (names have been randomly defaced to exploit the guilty) handoff's to Daniels, and some amazing fakes by our blocking line. But at least I got to fondle Burleigh's buttox once while he still had his ball in hand.

That just about covers this week's sports rap.

Back to you, dude."

Thanx, Marty. This concludes our Blacker Inside Werld extravaganza You can go home now.

"No, really, take off!"

May Leep-man be with you.

Dabney: The Dabney House Alphabet Rhyme

A is for Al, a hero to some.

B is for bricks, all covered with scum. C is the crap all over the wall.

D is for Donald, wailing on Paul.

E is for Rahul, nine times out of ten.

F is for Kevin, again and again.

G is the gunk in Charlottes hair, and

H are the hormones, which make old Dirk care.

I am the greatest in the whole house.

J is for Jai alai and Jon Hamkins, that louse.

K is for Ko, a future house who L is for Lowenbrau, a wonderful brew.

M is for Mittman, a "demon from hell".

N is for Nutty and old Kenny Bell.

O is for Oscar "El Gordo" Duran, and

P is for purchasing drugs from Dan.

Q is for quiet, but we are not Rudds. R is for rabid, like Trusty and Spuds.

S is for Saturday nights at the bar.

T is for Traveling very, very far. U is for Umminger, and all of his drugs.

V is for Vito and all of his thugs.

W is the weasel who likes cutting throats, and X is for Xeroxing Jim Bob's 108 notes.

Y is Stan's face the pits?

**Z** is for zits.

-Homer

Fleming: For this weeks insuide world we present Fleming's version of the Totem: The Floatem

Frosh are Lame.

Undeniably So.

Can't they do Anything Right?

Kill the Seniors

Brain Damage is a Fag.

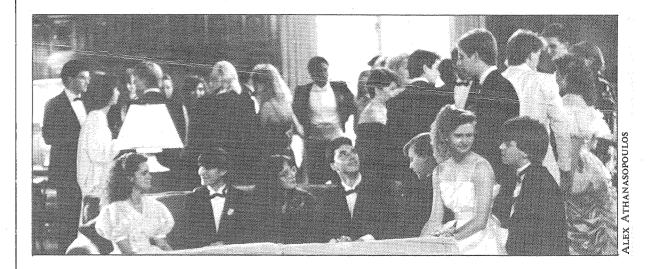
Undeniable So.

No one can Deny this Truth.

Death to the Seniors

All of them.

please see INSIDE WORLD, page 9



# ASCIT Formal

by Larry Cheng

As the sun sat low on the horizon, we pulled up to the majestically sihouetted Athenaum. My companion looked simply beautiful in a peacock-and-lace dress elegantly reminiscent of a Southern belle's. I, of couse, sported a perfectly matched tie and cumberbund with a traditionally tailed tuxedo. As I escorted my lady from the automobile, I could not help but notice that the campus around me had never looked so dreamlike or romantic.

Once inside the Athenaum we were greeted by the many perfectly dressed ladies and gentlemen who would share this special evening with us. We occasioned upon some white Zinfandel, had photographs taken, then left, glasses in hand, for a romantic stroll down the Olive Walk....

We returned in time for the truly delicious prime rib dinner, with onion soup and all the accoutrements, served in the Athenaum's grandest style. The atmosphere was elegantly formal vet romantic, like a Rennaisance painting, the dim lights and high wooden walls of the room giving me the impression of being in an old French chateau. Conversation during the meal was pleasant and entertaining, and the Chardonais was execellent. After the sumptous meal, we were treated to the fine musical talents of the band Scandal, who delved into current hits and older favorites as well. We danced until we dropped- and of course, the slow dances were the

My lady and I took a few more romantic strolls through campus, and I shared with her my favorite hiding place, where we rested and shared each other's company by the light of the stars. Soon, we made our exit in order to escape to the beach and share some sips of our private champagne against the sound of the night surf. All in all, an excellent Formal, 1988.



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Have you shot a photo of the Caltech campus that you especially like? Well, here's your chance to see it in print. Work is now being started on the 1989 Caltech Calendar, which will contain 13 color photos of the campus taken by the Caltech community. You're invited to submit your favorite 35mm color slide or color photo to Dlorah Goforth, Graphic Arts Facilities, Mail Code 17-6, Extension 6705, by June 1. Winners will receive a free calendar and \$25!



# at the Ath





### More Inside World

from page 8
Death to the seniors. All of them.

None shall escape our righteous wrath,

In a blaze of cheese-grated glory.

Excruciating torture!

Let them all be flayed alive. So be their torment.

I've got the Nelson! SWOOOOSH!

ArrGGHHH!!

Finally, they Are all dead. Good.

Perchance, we embark on an adventure... All 'round the world we travel

Reaching forever

To find a new age.

Yes, this is so.

All forward! To victory!

Danger awaits us At every turn.

Be wary of the

Nefarious ones who

Evilly seek to destroy

Goodness And light shall be

Ready to save you from

Damnation and

Eternal torment.

Now you shall be Saved!

Karma, dude,

Is the wave of the future,

Like, y'know? Like, totally.

Three for one night!

Here in the dining room, Everyone gets wet!

Soggy bozos Everywhere! Now there is

Ice falling from above On to the lame seniors.

Revel in their destruction!

Soon, they will be dead. -NeanderFlem & Young Fansome

**Lloyd:** Well, the results from Lloyd roompick are in:

In the once kick-ass alley of Inferno, the combination of President Dave and UCC Gil has scared away everyone but the luckless combination of Eric Kassan and Scott Harris who were locked in because of their position as last on-campus pick. Have fun with all those frosh, Gil.

The alley of Tropically has maintained its stature as geekbox central, despite the departure of three critical seniors, by gaining Curt (the Nazi) Hagenlocher

as UCC and by luring Dave (Aphid) Townsend away from Inferno and picking up frosh prospect Mike (Kazor) Rozak.

With Craig (Digby) Sosin as UCC, Valhalla could not help but be a popular of the country lar alley. Top frosh pick Steve (Yuppie Geek) McLaughlin and his roommate Nate (Nathan) Hieter moved there so they "could be close enough to shower the President, but far enough to avoid his music." The unusual combo of Matt (Killer) Maloney and Raif Majeed cited similar reasons for their pick into the alley. In a surprise move both Bassem (Headbanger) Mora and Tom (Zoomie) Bewley moved way, way off campus, giving service to the house as the reason.

The women of Lloyd couldn't get far enough away from Headquarters now that Jack L. Prater is UCC. The paranoia even extended to the normally fearless Juniors of the alley as they packed their bags for the nearest off-campus alley they could find (namely, Corona). Sean Johnston and roommate Dimitri Kirill threw caution to the wind and decided to brave the reign of Prater, as did the pair of Brendon (Mantis) Lasell and Ben (Moose) Funk, who are possibly the only people in Lloyd capable of keeping the Prater boy in check.

Kaos became the alley for sports information with Larry (The Commissioner) Ahle as UCC, attracting the Hillman, Rob (Redbird) Grothe, John (the Belcher) Haba, and Doug E. Frosh. In a surprise move, the oriental shedevils Janet (anti-Earl) Lai and Anita (Beelzebub) Lee, moved to the alley to

'continue their war on the Negro race".

With the incompetent duo of Karen (UCC) Oegema and Alecia (one arm inversion) Chen rooming together, Virgin Islands promises to be the funniest alley in Lloyd. The arrival of Tara (sit down!) Kirby and Carol (Big Bird) Mullenax will only add to the mirth and ridicule. John (the ideal) Gass and Myron (Keeper of the gateway of Kazor) Ahn moved to the alley so, as my informant's tell me, they can continue their bizarre genetic experiments.

Finally, the alley of the Cave of Fingal. With me (Mr. Cartilage) as UCC and the Storm as my roommate, Fingal's promises to be the happening alley. This initial placement has caused an influx of the best frosh in Lloyd: Ian (funny hair) Dutton, Chris (flaming liberal) Myers, Stephanie (Rag Doll) Shors, Yip, Jeff Hagen, and Doug Peterson. When questioned about his having two rooms, Doug mumbled something about bonus roommate action.

please see INSIDE WORLD, page 10

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### **Even More Inside World**

Page: Please excuse the lack of Inside World's from Page in the past few weeks. I was involving myself in a mind control experiment currently underway in Compu-Hell. (Zdrastvuiy, tovarisch.)

Sports in Page House:

Page= 124

Ricketts + Dabney + Fleming = 15

(You get the idea.)

Page MVP of the Week- Mike Salisbury (3 run HR, unassisted DP) The following verse was unfortunately omitted from the ASCIT literaryart supplement, the Totem, so feel free to clip it out of this paper and stick it to page thirty-one where it belongs.

A short poem on taking a shower with forty-seven other guys, most of whom are wearing red shirts with little white "F"s on them.

My head is squooshed against the carpet, my face is wedged in someone's armpit.

(His breath smells like a dog that's dead.) My knee is wrapped around my head. My back against the doorframe crunched,

I fight the urge to toss my lunch. I find myself already thinking

while the hall of sweat is stinking that this is not a proof of virility as much as a sign of early senility.

We really liked the cover, Tom. Keep up the good work.

-Mr. Laughs says, "Stop me before I write again."

Ricketts: Warning! This Inside World is dull, random and boring. I don't care. Read at your own risk

Ru(bpy)! Fulfill your potential and enjoy the light! 22 Gates makes ice cubes out of frosh brains.

People looking at the Ath Friday night saw the strange sight of Brian dancing with a hot babe in a slick black dress. They danced in the moonlight, then the mysterious lady vanished! Well, what has Brian been up to? Everyone who went to the Formal was treated to prime rib, a souffle and a taste of Gaby's daring new dress. When Gaby made her entrance, a chorus of "ooooh"'s were heard. It's perfectly true!

Everyone enjoy Ditch Day? Ditch Day was extra yummy delicious. Among the heroic actions I heard about: Charles Cook single handedly dropped five years of classes; Drew, Eric and company wore heavy leather armor in 100 degree heat to tear into a car (they were saved from exhaustion by Dave Lee's bribe); Josh and his intrepid company sailed the seas in the good ship Daihatsu; and the one I appreciate the most, George, Gaylon and pals killed Wesley Crusher. (Yea! Yea!)

Last weekend was BDR. It was a fantastic fun-filled party with lots of music and good food. (Translation: I haven't the slightest idea what went on. Sorry.) Also discovered this weekend--- Masculinity can be measured by body hairs per square inch. This was found to apply especially well to Jerry and Cookie,

but Samer flatly contradicted the hypothesis.

Room picks are over. In a fiendish plot uncovered by our courageous leader Tom late Thursday, it was found that Charles Budney had been killing off prefrosh to make room in the house for his favorite frosh, Kitt. Kitt, unaware of this great favor bought a house (5 bedroom) with money she made last summer, and peopled it with Tom, Cookie, and herself. She calls it Target House. Other tidbits about room picks. My fall room pick may look like the smallest room in Cherry, but it has a transdimensional gate under the sink (Don't tell Corbet). I used it, when Corbet wasn't looking, to go to Maryland a lot this last week. So to all you who got rooms three times as large as mine, ha!
Welcome Doug Evans! Did you know that Sam Weaver gets a percentage

of the dues of everyone he convinces to be a scurve? It's perfectly true. And welcome Chandra! My rotation roommate has finally come to her senses.

This summer Drew is going to be teaching physics to high school students. Imagine being a SSSSP high schooler and going to class at nine in the morning and seeing this hairy thing (you know how Drew looks in the morning; all hair, no brain.) trying to teach young impressionable boys and GIRLS (The cute ones are too young for even you, Drew, and a lot smarter). I think they will all get a sudden yen for biology.

Happy Birthday Samer! Folks, he is now sixteen.

Happy Birthday Samer: POINS, INC.

Two more weeks! Hang in there, people.

-The HAPPY HAPPY Pip-Squeek

Ruddock: Hi

I want to party.. Congratulations, DR. ED, Ruddock's very own monster of Biology!

Last Sunday was Ruddock House Sports Day/Olympiad. Either you're a senior or you lost. Wayne's happy 'cuz he got his way. Well, it doesn't really matter what Wayne's wants any more cause he's graduating but looking to the future perhaps we could share with you:

Our Predictions for the Class of '88 in the next 10 years. Rich Arrieta-Selling used cars in Peoria; held up, shot and killed Hungse Cha-Well, he was a prof at a small eastern college but was kicked

out for changing grades for sexual favors and strangled by a pregnant coed Lloyd Cha-Kidnapped by aliens, mindwiped, and implanted with Elvis Presley's brain waves. Electrocuted playing an electric guitar in a bathtub Steve Edwards-Adds math processor to left brain, starts calculating pi to the 589,589,099,544th digit. Unfortunately, brain overheats and explodes Kent Irwin-Find \$5.25 on beach with metal detector, jumps in ocean in ecsta-

sy, and is eaten by Jaws Ed Koo-Smile gets stuck on his face and he dies of starvation 'cuz he can't

open his mouth Wayne Lukens-Slams his dick in a car door and dies

Tim Ma-Missed his brother so much he dies of a broken heart

OJ-Has member frozen by icemaiden and dies of gangrene

Greg Martin-President of the United States, assassinated by jealous lover after 2 months in second term of office

Sean McNamara-Actually told someone to f---off and was struck dead by God Jamal Mohd Yusof-Master of the slopes, skis into 400 pound beginner and is killed instantly on impact

Janice Peters-Joined Hell's Angels, shot to death in clash with police Cathy Chen-While satisfying Eddie's carnal desires the car went over a cliff Mel Senft-Attempts to fly off the Empire State Building while on acid and

has a splatteringly bad trip
Sarjvit Shastri-Killed by Tom Lenosy 'cuz he won the Nobel Prize first
Van Eric Edward Stein-Mistaken for John Schuster and killed by BMW in-

telligence forces after stealing the 1999 prototype Minh Tran-Career skyrockets to fame as folk guitarist. He spontaneously com-

busts after being zapped by 200 watt amp while in concert Mikey Warren-Killed by angry South Dakotans after they realized he had more

than an eigth grade education...(Look out, Munir!)

Jordan Woods-Dies of Kwashiorkor Fumihisa Yamazaki-Has a Heart Attack when Nancy Wilson agrees to be-

come his loving wife

Tung Yin-His books don't sell, so he's not well, tripped and fell, went to hell DR. ED-Starts drinking potions in lab, turns into Toxic Avenger and is killed by police Amy-Killed by falling safe while walking down street in urban New York

Sigh...They were all my friends and they died. Social Event this week is Alley Wars

Quote of the Week: "We gotta snag that tall dude and stomp the shit outta him."

## sports

# Track Awards Given

by Alex Athanasopoulos

Track season ended at Tech like every other sport, without bells or whistles. At the awards banquet last Sunday, coach Jim O'Brien, proud of his team as always, awarded the athletes for their

Senior John Gehring, a cross country and track runner for all of his four undergraduate years, was nominated the Caltech athlete of the year. He also received the Goldsworthy trophy as the best track member in ability, leadership, and sportsmanship. It was the third year in a row Gehring has won this trophy.

Senior Joe Shiang was awarded for his efforts as the best newcomer. Joe speciallized in the 800m, placing fourth in the conference finals at Occidental, the highest place of any Techer. Junior Sean Hillyard, won the most improved award for his fast times in the 400m.

Freshman Liz Warner, the Caltech record holder in the 200m, 100 hurdles, long jump, and triple jump, was awarded for her efforts in multiple events.

Freshman pole vaulter Ray Sidney scored the most points in the conference dual meets of any Techer, competing in such varied events as the 100m, 110 hurdles, 400 hurdles, long jump, and triple jump, as well as his favorite the pole vault, over which he now clears twelve and a half feet.

Noted for their performances throughout the season were Randy Ralph for his consistently good jumps in the high jump; Ed Mao, who threw the discus farther than ever before; Steve Harkness, a freshman who frequently was our best in the throwing events; and Dave Amezcua, who was just behind Harkness.

The women's track team was the best in several years. The team broke many records, including getting their first conference win ever. Members of the team, were Liz Warner, Bibi Jentoft-Nelsen, Golda Bernstein, Kitt Hodsden, Margi Pollack, Dee Morrison, and Christina Garden, none of whom are seniors.

Next year promises to be another strong year for the Techers, since they are losing so few seniors. With another strong freshman class, perhaps Caltech track can move into the upper division of the SCIAC conference.

# Sports Day Sunday

by Scott Kister

This Sunday is Caltech's annual Sports Day. The festivities run from 10AM to 4PM, and include a free brunch, entertainment, and sporting events for everyone.

There are some changes in this years Sports Day. According to Bob Oliver, the MOSH, the date has been changed to coincide with alumni weekend to induce more alumni to attend. The change has worked, too. Seventy-five alumni are planning to show up, an alltime record.

Instead of a lunch this year, there will be a brunch. The change was made, "to get the alumni to stay over" from seminar day, explained Oliver. The brunch will last until 1PM, and fruit and soft drinks will be available all day. Entertainment will be provided by the Caltech Jazz Band from 10:30AM to 12:30pm.

The sporting events are designed for anybody interested, especially non-athletes who aren't involved in varsity sports at Caltech. Faculty, alumni, as well as students can participate. The events include soccer, softball, ultimate frisbee, triathlon, polyath-Ion, volleyball, basketball, water polo, and tennis. Sports Day will culminate in a tug-of-war match, which will be held after the other events have finished.

The triathlon includes swim-

ming, biking, and running. Teams of three participate, each person doing one event. The polyathlon is a team of three participating in pie eating, chug-a-lug, and swimming. Tug-of-war involves teams of six

people. Teams for these events should sign up at the information desk on Sports Day. All events are open to anybody, and one can come and go during the scheduled

North Field

North Field

North Field

South Field

North Field

North Field

Gym

Gym & outside court

# Sports Day Schedule

11:00-1:00

1:00-3:00

1:00-3:00

4 2:00

3:00

11:00-1:00

1:00-3:00

Noon-finish

around 1:00

**BRUNCH** 

10:00-12:00 North Field

FIELD EVENTS Soccer

Softball Ultimate Frisbee Triathlon\*

(cycling, swimming, and running) Polyathlon\*

(pie eating, chug-alug, and swimming)

Tug-a-War

**GYM EVENTS** Volleyball

Basketball

MISC EVENTS

Water Polo (including inner tube water polo)

11:00-1:00 **Pools** 

**Tennis** 11:00-3:00 Tennis Courts \*Team sign-up at the information desk on Sports Day, three each for the triathlon and polyathlons and six for the tug-of-war.

All sports are informal, cand you can come and go during the sched uled periods. Everyone who wishes to do so will be urged to play.

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# what goes on

from page 12

### Scholarships for Vet Children

Applications are now being accepted for the PVA/Youth for Vietnam Veterans Scholarship Fund. Applicants must be natural or legally-adopted son or daughter of an honorably discharged veteran who served on active military duty in the Vietnam theater of war from August 4, 1964 to May 8, 1975, who was: killed in action; died 'in country'; listas missin in action; a prisoner of war: disabled with 100% serviceconnected rating; or rated as 100% disabled for Veterans Administration pension purposes, as the result of a spinal cord injury or disease (such as multiple sclerosis).

Each scholarship grant will be \$1,500 and applicants must be enrolled in, or accepted by, an accredited four-year institu-tion of higher learning. The student's academic performance, community and extracurricular activities, as well as financial need, will be considered in the award

For an application or more information, contact: Scholarship Committee; c/o Paralyzed Veterans of America; 801 18th St. N.W.; Washington, D.C. 20006; or consult your telephone book for the PVA Service Office or Chapter nearest you.

#### **Texas Instruments Contest**

Texas Instruments has called for papers describing the utilization of Lisp- or PROLOG-based expert systems or knowledge-based systems to solve nontrivial real-world or industrial problems. The company invites full-time university students, faculty and staff members to submit papers which provide details about successfully developing applications. To support the continuation and expansion of the research described in the winning papers, TI will present the authors' universities with awards of development hardware and training or with \$10,000 in project funding.

Papers are limited to 4000 words including appended material. Only the cover page should include the names of authors and their university, biographical information, acknowledgements, telephone numbers, and a return address. No reference to the authors or their universities should appear in the body of the paper.

Authors may submit more than one paper, but each paper must be submitted separately and received by June 8, 1988. Ten copies of each paper should be sent to this address: Texas Instruments, AI Call for Papers, 8360 LBJ Freeway, M/S 8203, Dallas, TX 75243, Attention Jess Rosenthal.

Papers describing commercially available products are excluded from this competition. Further information is available from Jess Rosenthal at (214) 997-3726 or via CSNET or ARPANET at: jess.rosenthal%jros%timesglcsc.ti.com.

### Spring Into Folkdancing

The Pasadena Folkdance Co-op meets every Friday night at Throop Memorial Church at the corner of Del Mar and Los Robles. Beginning dance instruction starts promptly at 7:45 pm with intermediate instruction following. A donation of \$2 is requested. Dancers must wear soft-soled shoes to protect the wood floor. Start this spring off with an active program of dancing. Cou-ples and singles are invited to join the club in dancing after instruction is finished

### **Europe By Train**

For a free information packet about Eurailpass and Britrailpass, or to order a pass for your traveling convenience, call toll free 1 (800) 4-EURAIL. Phone line open Mon-Fri 9am-9pm, Sat 10am-3pm PDT.

### Student Investment Fund

The Caltech Student Investment Fund in vites all members of the Caltech community to join. Meetings are held every Wednesday at 5:00 in the Millikan Board Room. For more info, come to a meeting, or contact Randy Levinson at x3961.

### **Summer Work Study**

Summer Work-Study sign-up forms are now available in the Financial Aid Office. If you are interested in Summer Work-Study please submit the completed form to the Financial Aid Office as soon as possible, but no later than May 27. Thanks for your patience. We, along with you, have been anxiously awaiting clarification from the federal government so we could proceed.

### **Summer Ticket Office Jobs**

The Caltech Ticket Office is seeking fulltime summer student employees.

Responsibilities include daily ticket sales on computerized ticketing system, processing all phone and mail orders and related ticket office functions.

Requires friendly manner, good customer relations and good organizational skills. Computer and typing skills helpful.

Apply at the Office of Public Events, 332 Michigan Ave. from 10 am to 1 pm or 3 pm to 4:30 pm. Ask for Linda, or call

### Frog SURF

If you are a junior majoring in engineering and you would be interested in a SURF in Vernon, France (working in the French space program), please contact Chris Brennan (1111 Thomas, x4117) as soon as

### Legal Internship Program

The European and Asian offices of Coudert Brothers, Attorneys at Law, have established an International Legal Internship Program, which they believe will be of interest to graduating seniors and graduate students who may want to take some time off. They have offices in Paris, Hong Kong, Singapore, Tokyo, and Sydney. The firm would like to attract talented college graduates who are considering a career in international law, but would like some overseas experience with a large international firm before making a definite decision. The Career Development Center (08 Parsons-Gates) has more information.

### IBM Co-Op

IBM's Santa Teresa Laboratory has recently been given the approval to open up approximately 75 co-op programming positions. These jobs are for the March to September and June to December time frames. All assignments are 40 hours a week and are technical in content. Jobs could involve programming in a development or test area. The ideal student is someone at a junior level or above, studying computer science, and with a strong technical/academic background. The Career Development Center (08 Parsons-Gates) has more information.

### Work In A Summer Camp

Apply today for summer employment at Woodcraft Rangers Stanley Ranch Camp. We'll pay you for the first week to learn, from professionals in camping, social work recreation and safety, how to be a great staff member! If you qualify, you'll finish the summer with your American Red Cross First Aid & Lifesaving badges. It will be easier for you to get a later job as a lifeguard, recreation worker or in any industry because you'll have the certificates to handle emergencies

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The camp is on a ranch near Magic Mountain. We can offer you a summer of meaningful employment...a job with a purpose! If you enjoy outdoor life and working with children this may be one of the most rewarding summers of your life. Employment is for ten weeks, beginning June 18 and ending August 27. There are many openings for both men and women. We provide salary, room and board, health insurance and other benefits.

Write or call for an application: Wood-craft Rangers, 2111 Park Grove Ave., Los CA 90007, or phone (213) 749-3031. Fingerprints and references re-

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### **Research Opportunities**

The SURF Office has received information from the Oregon Graduate Center Summer Undergraduate Research Experience (OGC/SURE) about research opportunities in such areas as groundwater contamination, fluid dynamics, environmental chemistry, or microbiology. For further information, come to the SURF office, Room 3 Dabney

### **Macintosh Programming Jobs!!**

This summer, Apple Computer will be providing several internships for Caltech students to work on science simulation software for elementary school students. Student interns will receive \$2000/month plus benefits, while working on campus as part of Project SEED, a Caltech/Pasadena Unified School District program for innovative science education. Call Susan at x6820 for more information.

### **Consulting Engineers \$\$**

The Consulting Engineers Association of California announces its twelfth annual competition for upper-division, undergraduate scholarships in engineering to be awarded to a limited number of students who are interested in consulting engineering as a pos-

To be eligible, a candidate must be (1) scheduled to enter his or her third or fourth year of undergraduate study in the fall of 1988, (2) in the upper half of his or her engineering class, (3) working for a B.S. degree in engineering, (4) interested in consulting engineering as a career, and (5) a United States citizen.

For applications and more information, stop by the Career Development Center, 08

### Internships in New York

The Student Internship Service of Kings Park, New York, offers listings of summer internships in various majors in New York City and on Long Island. Many offer salaries or stipends. Write for information: Student Internship Service, P.O. Box 1053, Kings Park, New York 11754.

### **Hunter Rouse Fellowship**

The University of Iowa College of Engineering is sponsoring the Hunter Rouse Postgraduate Fellowship in Hydraulics and Fluid Mechanics. Recipients must have earned a B.S. or M.S. by the 1988 academic year. Stop by the Career Development Center, 08 Parsons-Gates, for more infor-

### JFCS Grants

The Jewish Family & Children's Services is offering grants of up to \$2,000 per year for students through age 21 who are working towards an Associate's or Bachelor's Degree. They are also offering loans of up to \$5,000 per year to students enrolled in any academic or vocational program. In order to qualify, the student's primary residence must be in the JFCS servce area, which includes San Francisco, the Peninsula, Marin and Sonoma counties. For further information please contact the Financial Aid Office, 515 S. Wilson (2nd floor).

### N.A.S.A.G.S.R.P.

The NASA Graduate Student Researchers Program (GSRP) is awarding approximately 80 grants of up to \$18,000 to promising U.S. graduate students whose research interests are synergistic with the goals of NASA research programs in space science and in aerospace technology. The Fellowships are awarded for one year and are renewable for up to 3 years. To be eligible the student must be a U.S. citizen and a full-time graduate student from an accredited U.S. college or university. Students may apply any time during their graduate career or prior to receiving their baccalaureate degree, and they must be sponsored by the student's graduate department chair or faculty advisor. For further information, please contact the Financial Aid Office, 515

### Money For Kern Co. Oil Buffs

The Wilma Addington Memorial Scholarship is being offered by the Desk and Derrick Club of Bakersfield in honor of one of their past presidents, the late Wilma Addington. The scholarship is granted annually to a permanent resident of Kern County who is pursuing higher education in a petroleum or allied industry related field Application deadline is August 15, 1988. For further information please contact the Financial Aid Office, 515 S. Wilson.

### Advance Your Swordplay Skills

The Caltech Medieval/Renaissance Society is holding fighting practice on Sundays at 2pm on the lawn outside Winnett Student Center. Would you like to learn the techniques of medieval armored combat? Come join us! For more information, call Leif (213) 644-7566, or Amy (818) 794-2612.

### Caltech Bridge Club

The Caltech Bridge Club meets every Monday at 7:00 pm in the Red Door Cafe. Players of all standards are welcome and we will provide a partner if you do not arrive with one. We play Duplicate Bridge and Master Points are awarded. There are also several tournaments a year, with extra Master Points offered. So, if you want a fun game of bridge, or just more information on the club and its activities, please come on Monday night.

#### C.L.A.G.S. Library

The CLAGS library is open for business, with everything from Plato's Symposium to Sappho Was a Right-On Woman. The library is in room 36 of the Student Activities Center. If you want a key, even just to see what a gay-oriented cartoon book looks like, contact Laura Anderson, x3956, or Nancy Matthews (student activities coordinator), Room 37 of Student Activities Center, x2935.

### **Health Brochures**

Health Education Brochures are now available at the Health Center. Topics included are: depression, eating disorders, physical fitness, mononucleosis, birth control, and sexually transmitted diseases. The brochure rack is located near the reception area. There is no charge for the brochures.

### Caltech Raquetball Club

Passes for the use of the Pasadena YMCA's racquetball facilities are now available at the Caltech Y for the price of 1 dollar. They can be purchased during normal office hours and are available to any student. The passes allow full use of YMCA facili-

The YMCA is located at 235 E. Holly Ave., 1 block north of the Pasadena Plaza, next to City Hall. There will be a list of available partners posted at the Caltech Y, so if you are interested, please sign up.

If you have any helpful suggestions for the club, contact Jason Stewart at 1-59 or 356-9414.

Surf Club's Up!
The Surf Club is proud to announce a more than ample collection of surfboards and wetsuits to keep you stoked. If you want to check them out for a day or longer, contact Bill Foster, 795-4049 (nights) or Chris Edgington, 577-9694.

### S.T.D. Hotline

The County of Los Angeles Department of Health Services announces the availability of its Sexually Transmitted Disease Hotline. The Hotline provides confidential telephone information about sexually transmitted diseases such as gonorrhea, syphilis, herpes, venereal warts, and chlamydia, to name a few. The Hotline also provides referrals to low-cost health facilities where diagnosis and treatment is available. These facilities are located throughout Los Angeles County To speak with a Hotline "listener" call (213) 588-5221. The Hotline operates 8:00 am to 6:00 pm Monday through Thursday and  $8\!:\!00$  am to  $5\!:\!00$  pm on Friday. All calls are

# IHC & ASCIT

IHC Minutes 7:30рм 16 May 1988

- 1. Frosh letters from the houses get passed around. Everything seems okay, nothing too offensive.
  - 2. Talk about the Food Service. a. Seth says that Gary H. needs
- a 16% increase in the board contract for next year to break even. Gary points to increased labor and food costs as the reason.
- b. Multitudes of topics are discussed including subsidies for Chandler and the Housing Office.
- c. Seth suggests that Gary be invited to the Wednesday IHC Meeting.

IHC Minutes 7:30рм 18 May 1988

- 1. Sue Berkeley says each house should have 230 copies of their frosh letters to her by Monday next week.
- 2. Remember everyone is invited to Gary Lorden's retirement
- 3. The IHC gets to appoint 2 people to CHUG. Dwight suggests that the coffeehouse people know better and they should decide.
- 4. What about a rotation rule that a house can only pick people who picked them number one in the first round? It's seems to be a good idea but talk is postponed.
- 5. Bob suggest possible alternatives to the food problem:
- a. Remove Friday night dinners from the board contract. b. Try a lower increase for a
- few months. c. Give room picks to the food reps instead of paying them.
- d. Have the food reps visit other campuses and see how it is

- 6. Gary H. arrives and speaks about the food contract costs for next year. Roughly the increase is 15% wages, 5% food, and 7% utilities. The final projection is for \$9.96/day (16% increase). It's decided to wait for the result of the audit. Thanks for showing up
- 7. More talk about the food committee. First, Nancy shouldn't be on the committee. Second, Jim Minges is disappointed with the results of the food committee. Finally, mandatory board next year
- 8. No fines for P.C.D.E. day. Bob says that it shouldn't happen
- 9. Conrad says please enter your house room picks. Don't wait to get kicked of campus.

ASCIT Minutes 10:30pm 17 May 1988

- 1. CHUG wants two appointees from ASCIT along with two from IHC. Dwight says that CHUG should make the recommendation. Sam says it should be publicized.
- 2. Men's Glee Club wants \$600 on top of the \$200 given. So many questions, so few answers (questions like how many undergraduates, do they pay dues...) So Mike has to ask a representative to come to the nexte meeting.
- 3. Dwight got \$ for Hollywood sign paraphernalia, which he was supposed to sell. ASCIT would get money back through student accounts. Accounting hasn't billed students yet, and says it won't bill them. Discussion yields a decision to have it done through houses (e.g. student to house, house ASCIT).
- 4. Marty has estimates for repair to damage to the van. Mucho dollars. John Doe (not his real name) has to a. repair it himself b. get it repaired. In either case, he pays the first \$1000.
- 5. There will be a mess of changes in the by-laws.
  - 6. 7-House festivities, May 27. 7. Dean's party 25 May.
- 8. Bassem corrects the minutes
- in the Tech. (Don't look at me!) 9. Some faculty board meeting results.
  - 10. Totem's are out.
  - 11. Mystery discussion.





# what goes on

Announcements for What Goes On should be submitted on an announcement form available in the SAC copy/mail room (Room 37) or on a plain piece of paper. Please indicate the date(s) you want the announcement to run. Send announcements to 25-58, or put them under the door of Room 40A of the SAC. Announcements must be received by the Tuesday prior to publication.

### Lorden's "Retirement" Party

At the end of this academic year Gary Lorden will be "retiring" as Dean of Students to return to his research and teaching. To honor him for his 4 years of commitment to improving the quality of undergraduate life there will be a dinner on the Olive Walk on Wednesday, May 25th from 5:30 pm to 7:30 pm. ALL UNDERGRADS ARE INVITED!

If you have any questions, please contact Marda or Suzette in the Deans' Office

#### New, Improved Alpiners!!

Anyone interested in climbing, hiking, back country skiing or any other from of Alpine sport, is invited to attend the first meeting of the new and improved Caltech Alpine Club. The meeting will be held Monday, May 23rd at 7:30 pm in Ricketts Dining Room. For further info, call Jason Stewart or Andrew Kaluzniacki at 356-9414, or Fritz Nordby at x6252.

SEDS Meeting
On Tuesday, May 24th at 7:30 pm,
Caltech SEDS will be meeting in Clubroom B (that's room 15) of the S.A.C. We will be showing a movie on the experimental flights of the X-15. We will also discuss plans to attend the shuttle landing later this summer. All members of the Caltech community are invited to attend, and refreshments will be served.

### **McKinney Prize Winners**

The Mickinney Committee of the Literature faculty is pleased to announce the winners in the 1988 contest for excellence in writing. In the category of prose fiction, first prize has been won by Chris Nolle. Second prizes have been awarded to Peter Hughes and M. Alex Santoso. No prizes were awarded in poetry or non-fiction essays. However, honorable mention is given to Chandra Tucker for her essay "A Single Strand.

Start getting ready for next year's contest. If you have questions, contact Professor Jenijoy La Belle, x3606.

### Nye! Nye! Nye!

InterVarsity Christian Fellowship at Caltech presents Brad Nye tonight in Room 13 of the S.A.C. He will discuss with us how we can evangelize better through our small groups. The meeting begins at 7:00 pm. Special guest star will be Dean Wilber with munchies.

### **CLASSIFIED ADS**

HELP WANTED—

### MALE STUDENTS WANTED!

University students as sperm donors by California's largest sperm bank. Earn \$70-105/week. 213-553-3270 California Cryobank, Inc., 2080 Century Park East #306, Los Angeles.

JESSE JACKSON '88 needs you to get involved with the local campaign before the June 7 election. Help Jesse win and gain political experience in this historic campaign, Call (818) 405-9135 for more information.

FOR RENT-

FREE SAN MARINO GUEST HOUSE for qualified Caltech couple (M&F) in exchange for childcare. Call (818) 795-4235, ask for

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NEED A BAND? Citizens Banned, made up of JPL/CIT personnel, is available for parties and dances. Call Tom (x6863) or Dom (x6050)

### LOST AND FOUND-

LOST: GREY CROSS PEN. Contact: David Goldreich, 1-55, 577-6993

RATES.....\$2.50 for first 25 words; 10¢ for each additional word. Send written ad with payment to 25-58. No charge for on-campus lost & found.

### Random S.P.E.C.T.R.E.

S.P.E.C.T.R.E., the Caltech Science Fiction Club, will be meeting yet again on Wednesday, May 25, 1988 at 7:30 pm in Clubroom B/Rm 15 of the S.A.C. Last meeting, despite great enthusiasm after viewing our feature presentation (Note: We were not discouraged by the Evil Typesetter's warnings.) [Typesetter's Note: One more "Evil Typesetter" remark and your next announcement gets printed in Greek!], we did not decide on what movie to watch. It will probably be something like Alien Nympho Bikers from Beyond the Grave Versus the Wild Poodle Packs of Gauda Prime in 3D... (well, probably not). Perhaps we will begin writing our new fan novel trilogy: What Went Wrong with ST: The Next Generation, Get This Stupid Psychic Bitch Off My Bridge!, and Who Is This Dick "Wesley" Anyway? Who knows. At least we can make fun of Mark Looper.

By the way, S.P.E.C.T.R.E. T-shirts

are still available for \$10.00 (contact Eric Christian, x6630). Make your contribution today!! Well this is the spectre of S.P.E.C.T.R.E. signing off. Bug Mark Looper (304-0006) if you have any S.P.E.C.T.R.E. related questions. Leave

### LOST AND FOUND

Lost: grey Seiko watch. Lost on Ditch Day near Mosher-Jorgenson. Finder please contact: Todd, 356-9314.

#### Watch Found

Found: a watch in the S.A.C. Laundry Room. To claim, see Nancy Matthews, Student Activities Coordinator, 1:30-3:00 pm, M-F, Rm. 64 SAC.

### **Bother Sam Again**

It's time to start bothering Sam Dinkin about next year's Totem. The Totem wants creative writing, poetry, short stories, sketches and photographs. Send them to Sam Dinkin at 1-59 or give him a call at 578-9219. By the way, the Spring 1988 Totem is out (the first one in four years!). If you want one, talk to Tom Tromey, x6173,

#### Y Bucks

The Caltech Y Fund Drive is on. It's really a close race among the houses. It's not clear who the Y is going to give a party keg, soft drinks and munchies to. The Y should have sent you a letter by now. If not, come by the Y. Thanks.

### **Modern Dance Accompanist**

A Piano Accompanist is needed for the Modern Dance classes for Fall, 1988. The position is paid. Some interest in improvisation preferred. Classes meet in Dabney Lounge on Tuesdays and Thursdays from 4:00 to 6:30 pm. If interested, leave a message for Liz Oberstein, instructor, in the Athletic Department at x6146, or James Daniel, current pianist, at 578-9086 in Blacker House, 1-60.

### Y Book Exchange

Bring your used, unwanted textbooks to the Y. What we do is: we take them, display them on our bookshelves, and sell them to the poor suckers who will use them in the future. They get a good deal on textbooks, you get some of your money back! Let's band together to beat high textbook prices! They Y also has ring and report binders, and novels new and old.

#### Club Should Submit Soon

The Big T editors would like to encourage Caltech clubs and organizations to submit a page or two of photos for the yearbook. If you are interested, please assign somebody in your organization to put together your section and direct them to the Big T editors as soon as possible. Mail to Caltech 27-58, or call x2183.

### Now, About Those Houses...

All House sections must be submitted to the Big T by May 23. The editors would like to meet with each of the House Section Editors to make sure they understand how a layout is done and what possibilities exist for their layouts. Presidents, please assign somebody in your house to put together your house section and direct them to the Big T editors as soon as possible: Brian Catanzaro, Dave Phillips and Gino Thomas, x2183.

### **Merit Awards**

Each year, the Scholarships and Financial Aid Committee recommends a number of the most academically talented of the Institute's freshmen, sophomores and juniors for Merit Awards. Merit Awards are based on outstanding scholastic achievement as demonstrated by exceptional performance in formal classes and/or in independent research, and not on financial need. Last year the Committee recommended 33 Merit Awards at \$8,500 or \$11,000 each. This year 40 Awards will range from \$9,000 to \$11,600 each. Applications and a full description of the Awards are available in the Financial Aid Office. The deadline for submitting the completed applications to the Financial Aid Office is May 25, 1988.

### Northrop EE Money

The Northrop Corporation is again sponsoring a \$3,000 scholarship for sophomores in Electrical Engineering. The scholarship is awarded for the junior year, and may be renewed for the senior year. Selection will be made by a Northrop representative, and is not made on the basis of need. Details and applications are available in the Financial Aid Office. Applications are due in the Financial Aid Office by TODAY, Friday May 20. (Financial aid recipients: if you ge this scholarship, you will reduce your loan/work before grant!)

### Start Thinking Of Nominees

In the spirit of recognizing the ingenuity of great Americans whose original thinking has shaped the character of the country's business community, Adolph Coors Company is calling for nominations for the 1988 Coors American Ingenuity Award.

Nominees for the Coors American Ingenuity Award must have made a significant contribution to American business, but not received widespread recognition for their accomplishments. The recipient may be retired; however, the award will not be given posthumously. Nominees can come from any field-management, manufacturing, technology, research, marketing, finance or education. The deadline for entries is June

In addition to an original bronze sculpture, a \$5,000 scholarship will be given in the winner's name to help inspire future Ingenuity Award winners.

The past two year's winners were: Jack St. Clair Kilby, who invented the first working silicon chip, and Dr. John Atanasoff, inventor of the digital computer, if those two give you any ideas.

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### **Animated Finale**

As its season finale, Cinematech will present The 19th International Tournee of Animation on Monday, May 23 and Wednesday, May 25 in the Baxter Lecture Hall. The 19th Tournee is a collection of 20 award-winning animated short features (just like the Festival of Animation, except it's here and it's cheaper to get in).

Featured shorts include "Charade" (Academy Award winner), "The Big Snit" (Brad Scott's favorite, "Vincent" (a clayation of Vincent Price), "Jumping," "Anna and Bella" and lots more. Shows will be at 7:30 and 10:00 pm [NOTE: last week's announcement had listed times that were in error. This week's are correct.]. Admission charge is \$1.50. For more info, call James Shih, x3968

**Spring Sing!** Where can you hear the music from the Renaissance to Twenties' hit tunes, spirituals to Broadway selections, operatic choruses to barbershop quartets, all under the same roof, on the same night? At the Caltech Glee Clubs and Chamber Singers Spring Concert, that's where. Evening of May 21, at Beckman Auditorium. Featured will be excerpts from Carl Orff's Carmina Burana, Clément Janequin's Le Chant des Oiseaux, a Twenties' medley (sung and danced by the Women's Glee Club), and selections from the Broadway musical Les Misérables, which will soon be opening in Los Angeles. Buy tickets from the Caltech Ticket Office (356-4652) or buttonhole a Glee Clubber on the Olive Walk. Tickets are \$2 for Caltech students, \$4 for other students, and Caltech faculty and staff, and \$6 general admission.

### Caltech's Women Faculty

OWC presents a "Caltech's Women Faculty" seminar with visiting professor and novelist Maryse Condé, who will speak on "Female Writing in the French West Indies." The talk will be Thursday, May 26th at noon in the Judy Library, Baxter Hall.

### Old Big T's, Cheap!!

The Big T office has an excess of year-books from previous years which are up for sale. Big T's from the '70s and '80s are available for \$20 each (includes shipping). Regular purchase price is \$24. Send all requests to: The Big T, mailcode 27-58, or leave a message at x2183, and we will send you a yearbook immediately.

### **Chess Club**

Don't be misled by the little t; we are meeting in Clubroom A, which is in the basement under Fleming House. The time is still Monday at 7:30 pm. Come on by and take out your frustrations on someone else's king. For more information contact Matt at

### Japanese Scholarships

Applications for the 1988 Japanese Government Scholarship for American students specializing in Japanese studies are currently available at the Consulate Generof Japan.

Applicants must be U.S. citizens, of more than 18 years and less than 30 years of age as of October 1, 1988, third year students at a university or college, and specializing in a field concerning Japanese language or culture.

For more information regarding qualifications please contact the Financial Aid Office, 515 S. Wilson.

#### Veterans Memorial Scholarships The Veterans' Memorial Scholarship

Fund awards a minimum of 100 scholarships with a maximum value of \$5,000 each. To be eligible for consideration, applicants must be 22 years old or younger as of July 1, 1988, have a GPA of 3.0, have completed the freshman year, be enrolled full-time in an accredited institution and be a dependent of an Honorably Discharged American veteran, or a dependent of Active Duty, Guard or Reserve military personnel. Complete application forms and other required material must be mailed to their listed address and postmarked on or before July 1, 1988. For rther information contact the Financial Aid

### **Black Experience Writing**

Writers have been writing about the black experience in America since the early years of settlement in the new world. And throughout our history, the work of prolific black writers has become an important and enriching part of American culture. For this reason, McDonald's [yes, the Big Mac people] is pleased to offer developing writers a chance to compete for literary awards in poetry, fiction and playwriting. Winners in each category will receive an honorarium of \$2,000, a trip to New York to participate in a celebrity reading of their work, and a literary reception.

Eligibility Requirements:

FICTION: Submit up to 50 pages of a long work or two short works along with a biographical statement, including a list of any publications, if any, in which your work

POETRY: As above, but the poem shall not be more than 20 pages.
PLAYWRITING: As above, with a

sample of at least 20 pages in length.

Deadline for entries is June 1, 1988. Submit your name, address and phone number and mail to: The Negro Ensemble Company, McDonald's Literary Achievement Awards, PO Box 778, Times Square Station, New York, NY 10108. Finalists will be notified by July 1, winners by August 1. Materials will not be returned

### Coors Scholarships (Honest!)

Adolph Coors Company will assist more than 100 college students for the fourth consecutive year thorugh the Coors Veterans' Memorial Scholarship Fund program in all 50 states, the District of Columbia, and

Coors will provide \$501,000 in scholarship funds to eligible dependents of honorably discharged American veterans. Scholarship application forms are now available thorugh Coors distributors, veterans service organizations or by writing: Coors Veterans' Memorial Scholarship Fund, PO Box 3111, Northbrook IL 60065, or by calling toll-free: 1-800-49COORS. Applications must be postmarked no later than July

To be eligible for scholarship consideration, applicants must:
Be no older than 22 years of age as of

the July 1, 1988 deadline date; Have a cumulative GPA of 3.0 or better;

Have completed a minimal full freshman year program of credit hours, but not yet acquired senior credit hours; Be enrolled full-time in a four-year

school, or an accredited two-year program leading to a four-year undergraduate degree; Fall into one of the following categories:

Dependent of Honorably Discharged American service personnel; Dependent of Active Duty, Guard or

Reserve military personnel (minimum two Dependent of American Service per-

sonnel Killed in Action, Missing in Action, or who have Died in the Line of Duty.

### **Grad Bible Study**

All graduate students are invited to attend the weekly Bible Study/fellowship sponsored by the Inter-Varsity Christian Fellowship at Caltech. The study meets Thursday evenings at 7:30 pm at 201 S. Michigan Ave. (about 3 blocks north of campus). This spring, the study centers on the book of Luke. For more information, call David Imel (300-9315) or Alan Mathiowetz

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please see WHAT GOES, page 11

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