

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 first Caltech International Day takes place today.

The activities begin at 4:30 and are scheduled to continue until 8:30PM. 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 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.

DELORES BING

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 Students.

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 Expedition."

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. Mandelbrot, 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 in 1966.

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

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

Requirement	Old	New
Units for Graduation	Max of 516	Max of 486
Units Deemed Overloading	59 or more	55 or more*
Computing Requirement	Yes	No
Drop Day	Varies	Wed., 8th week

* 52 or more for freshmen.

Safety First

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 "hang-out" 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.

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 D. Van Essen	Forecasting Ground Motion: The Big Shake H. Kanamori	Prospecting for Planets: Searching for Other Worlds R. Terrile	Power-Building: Vikings into Normans E. Searle	Chemically Reacting Flows Combustion P. Dimotakis	
Session II 10:15 a.m.	Concurrent Supercomputers — A Revolution in Computational Science! G. Fox	Two Years Behind a Dog Sledge: Geology on a Greenland Expedition P. Wyllie	Molecular Biology: No Longer Just Bird Watching J. Richards	Methodology for Conflict Resolution J. Ledyard	Born Again Pulsars S. Kulkarni	Measuring Snow Properties from Satellite J. Dozier
Session III 11:15 a.m.	PRESIDENT'S WELCOME AND DISTINGUISHED ALUMNI AWARDS — Beckman Auditorium					
Session IV 12:00 p.m.	Power-Building: Vikings into Normans E. Searle	Cancer Diagnosis and Treatment: New Technology J. Baldeschwieler	How the Brain Communicates: A Molecular View H. Lester	Chemically Reacting Flows Combustion P. Dimotakis	Measuring Snow Properties from Satellite J. Dozier	SURF Student Speakers R. Clark, K. Ha, J. Tekanic
12:45-2:00 p.m.	LUNCHEON — To be served on Olive Walk near the Athenaeum					
Session V 2:15 p.m.	GENERAL SESSION — Dr. James C. Fletcher — Beckman Auditorium					
Session VI 3:15 p.m.	Forecasting Ground Motion: The Big Shake H. Kanamori	Prospecting for Planets: Searching for Other Worlds R. Terrile	How the Brain Interprets What We See: A Neural Systems Approach D. Van Essen	Methodology for Conflict Resolution J. Ledyard	Concurrent Supercomputers — A Revolution in Computational Science! G. Fox	SURF Student Speakers R. Clark, K. Ha, J. Tekanic
Session VII 4:15 p.m.	Cancer Diagnosis and Treatment: New Technology J. Baldeschwieler	How the Brain Communicates: A Molecular View H. Lester	Two Years Behind a Dog Sledge: Geology on a Greenland Expedition P. Wyllie	Born Again Pulsars S. Kulkarni	Molecular Biology: No Longer Just Bird Watching J. Richards	

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.

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 Aldeburgh 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.



Yo-Yo Ma, one of the world's premiere cellist, performed at the Ambassador 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 minuets, 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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Cinema

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 Francois Truffaut. For more information, call Josette Banroques at ext. 3762.

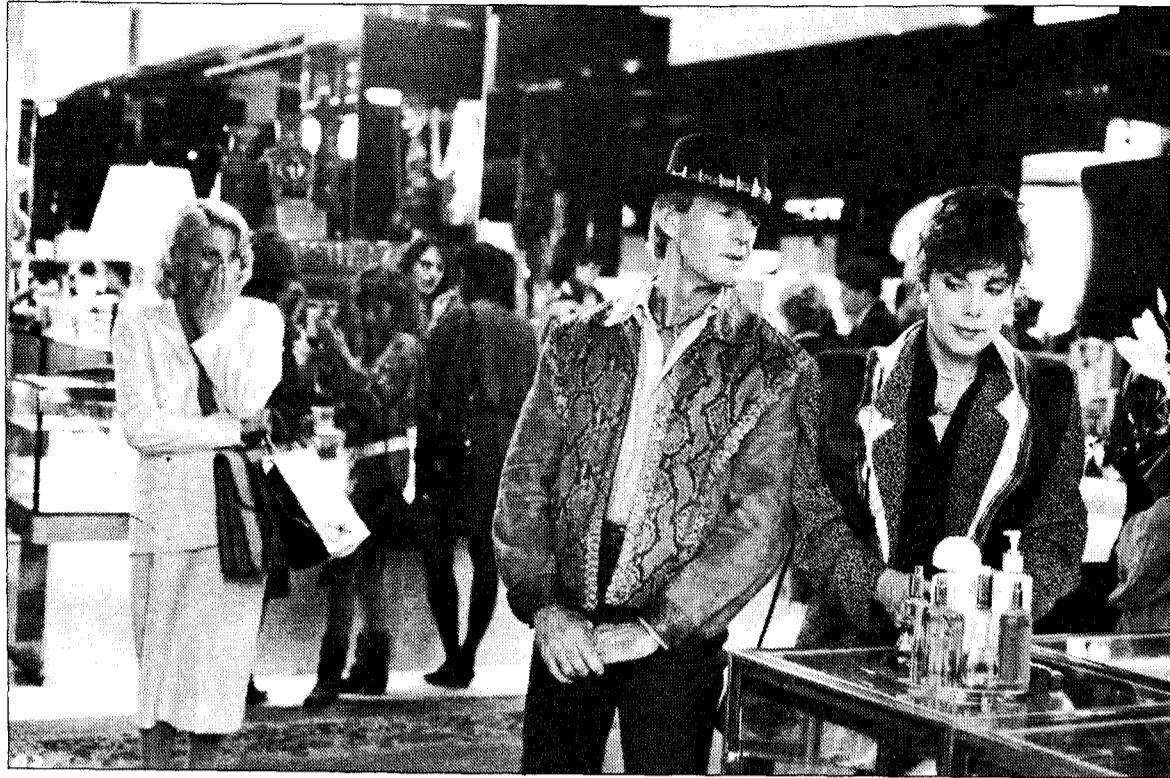
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entertainment



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

Crocodile Dundee II

by Stephen Lew

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 Australian 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 kidnaps Sue. In typical cowboy fashion, Mick comes to the rescue and helps Sue escape. Unfortunately, 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

breakfast of eggs and bacon. Or even using the men's room in a public building.

In Australia, Mick uses his 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 bait.

What made the original movie a success was its ability to make fun of life. Mick was perfect to do this: he was someone with a different 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 Australian novelty of the first movie by adding a genuine story.

If you do go and see this movie, 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.

Crocodile Dundee II opens today at a theater near you. Don't worry about missing it, I'm sure it'll be around for most of the summer.

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*.

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Cinematech Special

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 Lecture hall.

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 artist.

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 quartets.

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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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 songs-interrupted-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.

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

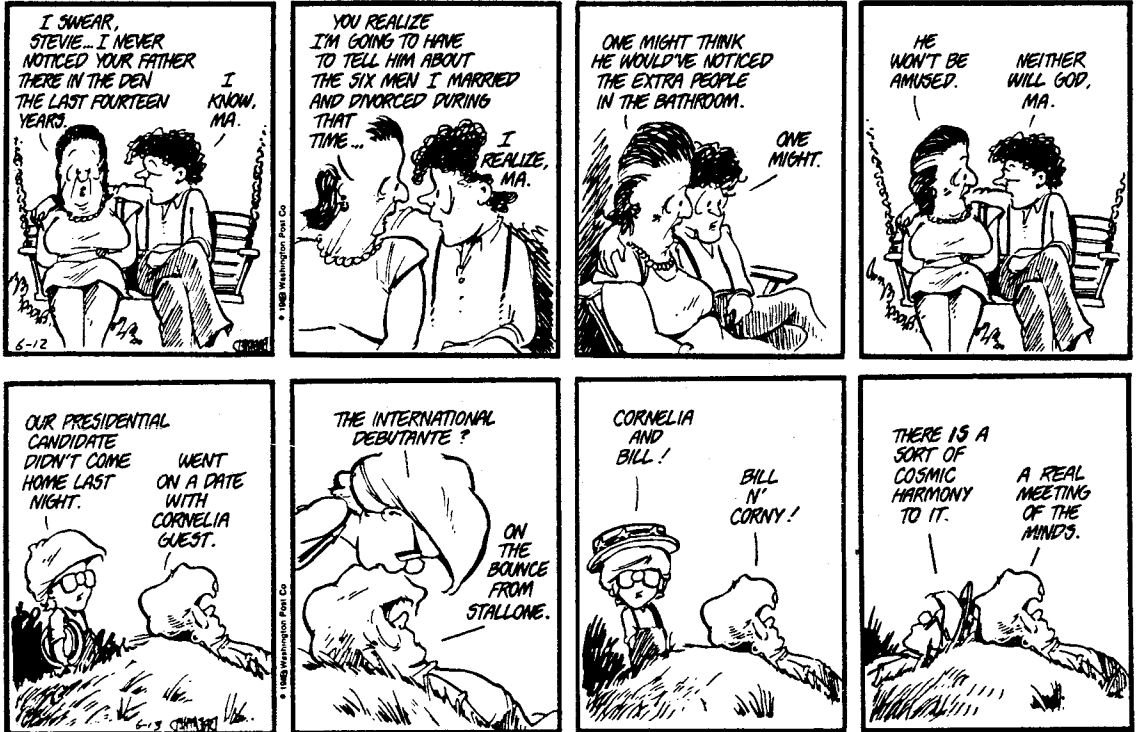
Don't worry if two lectures you want to attend are at the same time; a few of the lectures are given twice so as many people as possible can be accommodated.

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.

Seminar, cont

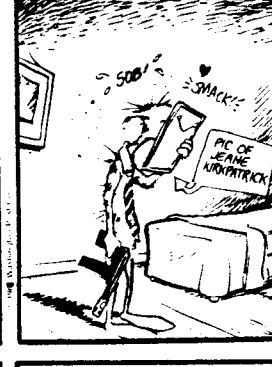
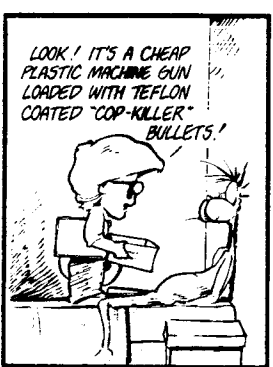
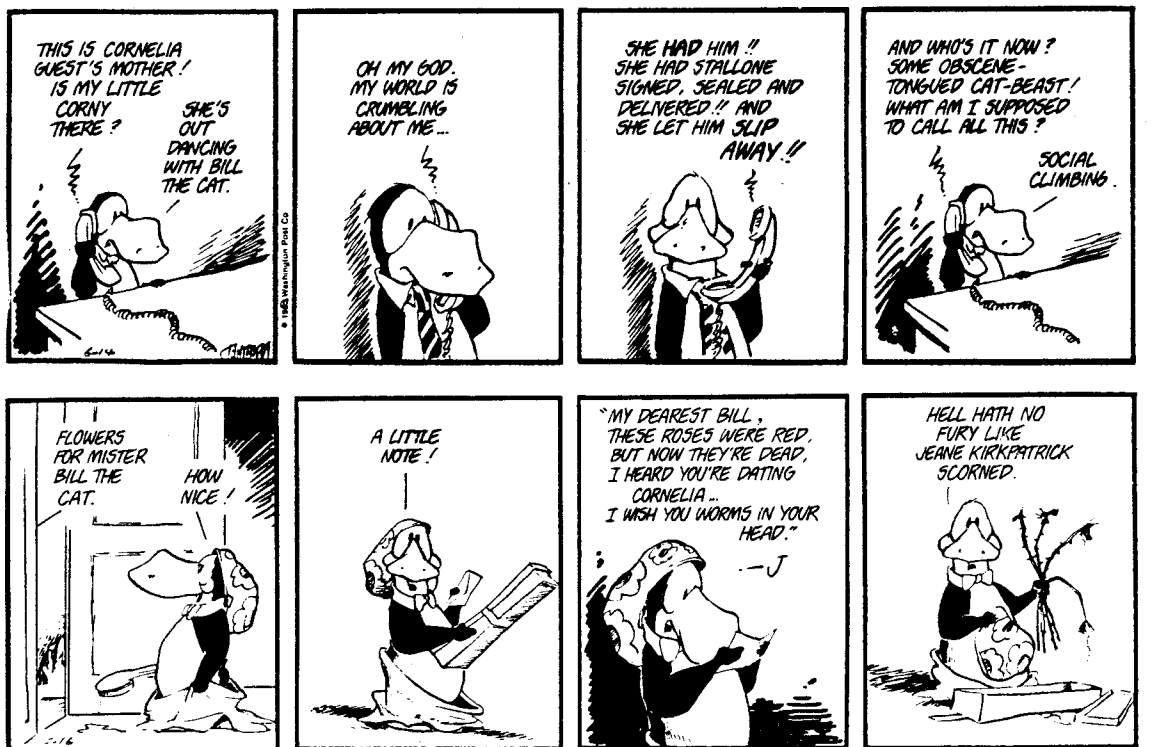
from page 1

In addition to the regular sessions, there will be several special programs and exhibits featured throughout the day. In the synchrotron 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-



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. **OOPS!!** In deference to those who planned their weekend around this unfortunate misconception, GNP is offering a second chance to take advantage of these once a year deals! Come in before 5-23-88 and say "OOPS!" to take advantage of our Ditch Day pricing!

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1	BIC	960	BELT DRIVE (as is!)	\$200.00	\$29.88	U
1	TECHNICS	SL-6202	DIRECT DRIVE '3' ARM	\$170.00	\$90.88	U
2	DENON	DP-23F	D DRV/AUTO QUARTZ AUTO	\$200.00	\$190.88	D
1	DENON	DP-61L	D DRV/AUTO QUARTZ AUTO	\$425.00	\$250.88	U
2	DENON	DP-35B	D DRV/AUTO QUARTZ AUTO	\$325.00	\$250.88	N/D
1	DUAL	CS-5000	BELT DRIVE	\$450.00	\$200.88	D
1	DENON	DP-47F	D DRV/AUTO QUARTZ AUTO	\$425.00	\$318.88	D
UNL	SYSTEMDEK	IIX	B-DRIVE 3 PT SUSPENSION	\$460.00	\$388.88	N/D
1	DENON	DP-59L	D DRV/AUTO QUARTZ AUTO	\$650.00	\$438.88	U

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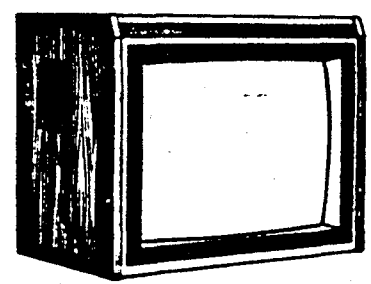
AUDIO STACKS OF ELECTRONICS SPECIALS

QTY	STACK #1	MIXED	REG PRICE	NOW	MOU
UNLIMITED	B & K	ST-140 PWR 100 W/CH	\$440.00		N
2	PROTON	1100	\$260.00		N
			\$700.00	\$568.88	

QTY	STACK #2	MIXED	REG PRICE	NOW	MOU
UNLIMITED	B & K	ST-202 PWR 150 W/CH	\$595.00		N
2	PROTON	1100	\$260.00		N
			\$855.00	\$688.88	

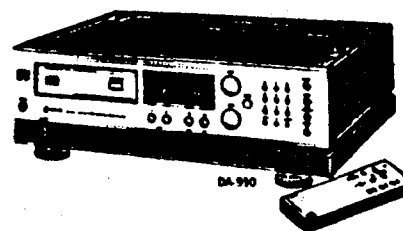
QTY	STACK #3	PROTON	REG PRICE	NOW	MOU
2	550	INTEGRATED AMP 50 W/CH	\$300.00		N/D
2	440	TUNER	\$260.00		N/D
			\$560.00	\$438.88	

QTY	STACK #4	MIXED	REG PRICE	NOW	MOU
4	NAKAMICHI SR-2A		\$450.00		N/D
	NAKAMICHI ORS-2A		\$530.00		N/D
			\$980.00	\$788.88	



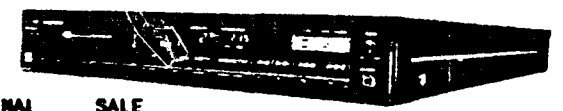
VIDEO

QTY	BRAND	MODEL #	COMMENT	ORIGINAL PRICE	SALE PRICE	MOU
2	AUD CONTROL	VS-1	STEREO SIMULATOR/EQ	\$180.00	\$48.88	N
1	NEC	AV-300	4 CH SURROUND	\$500.00	\$188.88	U
1	NEC	VCM-901EU	VHS 2HEAD MONO	\$480.00	\$248.88	D
7	MITSUBISHI	HS-348	VHS 2HEAD MONO	\$400.00	\$268.88	N/D
1	PIONEER	LD-700	LASER DISC PLAYER	\$800.00	\$288.88	U
1	LUXMAN	F-105	DOLBY SURROUND	\$600.00	\$448.88	N/D
3	MITSUBISHI	HS-402	VHS 3/HD HQ MTS HI-FI	\$600.00	\$448.88	N/D
1	MITSUBISHI	CS-2014	20" MTS "DIAMOND-VISION	\$550.00	\$448.88	N/D
1	MITSUBISHI	CS-2013	20" MTS "DIAMOND-VISION	\$550.00	\$448.88	N/D
2	MITSUBISHI	HS-413	VHS 4/HD MTS HQ HI-FI	\$700.00	\$508.88	N/D
1	MITSUBISHI	CS-2087	20" MTS "DIAMOND-VISION	\$700.00	\$588.88	N/C
1	MITSUBISHI	CS-2653	26" MTS "DIAMOND-VISION	\$750.00	\$648.88	D
1	MITSUBISHI	HS-422	VHS 4/HD MTS HQ HI-FI	\$950.00	\$648.88	D
UNL	PROTON	VT-210	20" FLAT SCREEN MTS	\$1,000.00	\$788.88	N/D
2	NEC	DX-5000	DIGITAL HQ HI-FI MTS	\$1,350.00	\$888.88	N/D
UNL	PROTON	VT-200	27" FLAT SCREEN MTS	\$1,400.00	\$988.88	N/D



COMPACT DISK PLAYERS

QTY	BRAND	MODEL #	COMMENT	ORIGINAL PRICE	SALE PRICE	MOU
1	MITSUBISHI	DP-209	BASIC CD W/REMOTE	\$200.00	\$100.88	D



TAPE DECKS

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 World 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
Chili of.
Once when why because.

—Da Pope

"Frantic. Running. Away.

Brad!
JAMES!!
(frosh?)
(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!" AAAAAUUUUUGGGGGHHHHH!
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. AAAAAUUUUUGGGGGHHHHH! Leap-laser! Leap-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 technician 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 World extravaganza. You can go home now."

"No, really, take off!"

May Leap-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 for 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 for 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 for 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.

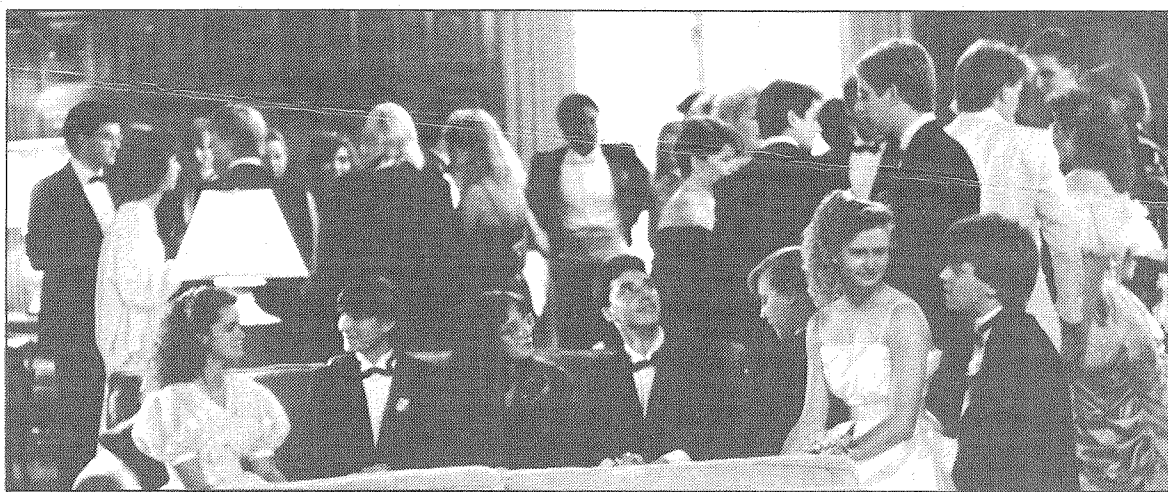
—Homer

Fleming: For this weeks inside 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

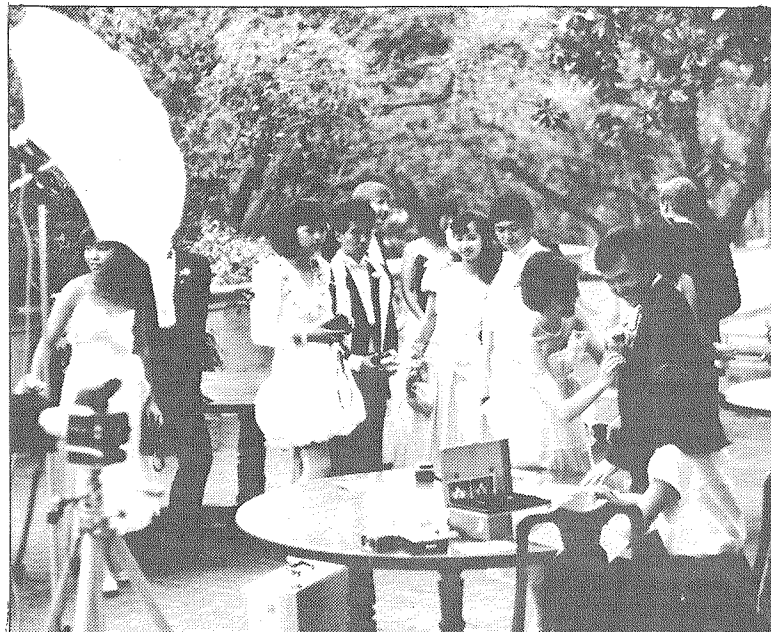


ALEX ATHANASOPOULOS

ASCIT Formal

by Larry Cheng

As the sun sat low on the horizon, we pulled up to the majestically silhouetted Athenaeum. My companion looked simply beautiful in a peacock-and-lace dress elegantly reminiscent of a Southern belle's. I, of course, 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.



ALEX ATHANASOPOULOS

Once inside the Athenaeum 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 Athenaeum's grandest style. The atmosphere was elegantly formal yet romantic, like a Renaissance 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 excellent. After the sumptuous 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 best.



ALEX ATHANASOPOULOS

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.

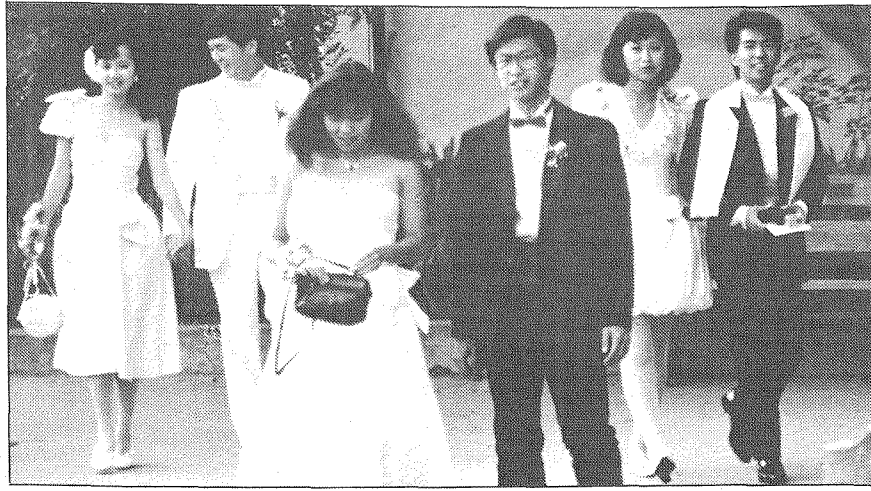
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AMATEUR PHOTOGRAPHERS ARISE!!!

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!



ALEX ATHANASOPOULOS

... at the Ath



ALEX ATHANASOPOULOS

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
You.

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 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 she-devils 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.

—The Savior

please see INSIDE WORLD, page 10

The 8th Annual **TANNING INVITATIONAL**

SAT. MAY 28, 1988

with LIVE MUSIC, FOOD & BEVERAGES

AT THE 150 S. Chester Apartments!

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It's Hot!

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huh?

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LEAST UNTANNED AREAS
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Even More Inside World

from page 9

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 literary-art 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 fresh 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 "ooooooh"'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 Daihat-su; 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 profrosh 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.

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 ecstasy, 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 icemaids 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 Yusuf-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 intelligence forces after stealing the 1999 prototype

Minh Tran-Career skyrocketed to fame as folk guitarist. He spontaneously combusts 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 eighth grade education...(Look out, Munir!)

Jordan Woods-Dies of Kwashiorkor

Fumihisa Yamazaki-Has a Heart Attack when Nancy Wilson agrees to become 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 efforts.

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 Goldworthy 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 specialized 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 Hoddsden, 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 year's 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 all-time 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, polyathlon, 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 event.

Sports Day Schedule

BRUNCH	10:00-12:00	North Field
FIELD EVENTS		
Soccer	11:00-1:00	North Field
Softball	1:00-3:00	North Field
Ultimate Frisbee	1:00-3:00	North Field
Triathlon* (cycling, swimming, and running)	Noon-finish around 1:00	South Field
Polyathlon* (pie eating, chug-a-lug, and swimming)	2:00	North Field
Tug-a-War	3:00	North Field
GYM EVENTS		
Volleyball	11:00-1:00	Gym & outside court
Basketball	1:00-3:00	Gym
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, and you can come and go during the scheduled periods. Everyone who wishes to do so will be urged to play.

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