



Beavers at 5-1

Near Perfect Record After Perfect Score Saturday

by Ath Man At Large

The Caltech Beaver football team defeated the Valley Nomads 19-0 last Saturday, raising its record to 5-1 and solidifying its sixth place position in the National Collegiate Football Association's national rankings.

The Beavers pushed the ball into the Nomad end zone on their first two possessions, scoring their first touchdown on a five-yard pass from Phil Scott to Darren Casey, and their second on a 48-yard run by Jonathan Brown. These two scores gave the Beavers their halftime lead of 13-0, which they extended to 19-0 in the third quarter on a 10-yard pass from Brown to Don Thomas.

The Beaver defense held the Nomads in check all afternoon, causing seven turnovers, including four interceptions by Andre Johnson, one of which he returned from the Beaver end zone out to the 49-yard line. Johnson's cohorts in the

defensive backfield, George Kailiwai, Vincent Riley, and Don Thomas did an outstanding job of moving up to assist the front line defenders in stopping the run, often leveling Nomad runners with hits worthy of much bigger men. Interior linemen Kirk Brattkus and Mike Burl were impressive as well, and fellow lineman Steve Martin contributed to the turnover parade by intercepting a lateral pass by the Nomad quarterback.

All in all, it was a satisfying game for the Beavers, the day marred only by injuries to Pete Rodriguez (broken bone in hand) and Brian Brunn (separated shoulder suffered making an outstanding catch of a long pass from Jonathan Brown on the game's opening play).

The Beavers' next and last home game is one week from tomorrow at 1:30 against the University of Baja California.



Dr. Leonard Pronko in high kabuki fashion. Pronko will be giving a lecture-demonstration on the Japanese Kabuki theater this Wednesday in Dabney Lounge.

Whitham Named Powell Prof for AMA

Caltech News Bureau

Caltech applied mathematician Gerald B. Whitham, an expert on fluid mechanics and the theory of wave propagation, has been named the Charles Lee Powell Professor of Applied Mathematics at Caltech, President Goldberger has announced.

The professorship is made possible by a gift from the Charles Lee Powell Foundation of San Diego, which is named in memory of a prominent engineer whose career included both work in this country and in Mexico. Mr. Powell designed, among many other projects, the Second Street Tunnel in Los Angeles. The previous holder of the professorship was Dr. Hans W. Liepmann, recently named the first Theodore von Karman Professor of Aeronautics at Caltech.

Dr. Whitham, 55, received his B.Sc., M.Sc., and Ph.D. degrees in mathematics from Manchester University in England. After teaching at the Courant Institute and at M.I.T., he came to Caltech in 1961 as a visiting professor of applied mechanics. He was named professor of aeronautics and mathematics in 1962, and professor of applied mathematics in 1967.

Dr. Whitham is a Fellow of the Royal Society and of the American Academy of Arts and Sciences. In 1980, he was awarded the Wiener Prize in Applied Mathematics. His most recent research has centered on the general theory of waves, and on the behavior of wave waves on beaches.

The World's Greatest

Guarneri Quartet Performs at Tech

It is always a pleasure and an honor to listen to the best, and the Guarneri String Quartet easily qualifies. For the ninth time they brought their incredible talents to Beckman in the second performance of the Coleman Concert series last Sunday.

The Guarneri began with Beethoven's "Harp" Quartet written in 1819 in Vienna while it was being invaded by the French. This work includes one of Beethoven's greatest scherzi and the adagio has such a melodeous phrase that no one can miss its almost lyric

grandeur. Furthermore, it was played with that special union characteristic of the Guarneri. This piece is best known for its pizzicato, at time making the Quartet sound like a harp.

Next came Kodály's Second Quartet, a sort of tone poem. The opening allegro begins with separate entries of the four parts, each playing the main theme. It then repeats with David Soyer's cello again starting and passing the theme to the violinists, Arnold Steinhardt and John Dalley.

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Japanese Kabuki Demo

All members of the Caltech community are invited to attend a lecture-demonstration and workshop on kabuki theater given by Dr. Leonard Pronko this Wednesday, November 16 in Dabney Hall Lounge at 7:30 pm. The lecture-demonstration will last about 1 hour and the workshop which will follow will last about 45 minutes.

The Japanese kabuki plays are very different from the typical western fare. Kabuki relies not on creating an illusion, but simply on an actor's expressiveness. The costumes and stage settings are elaborate but lack the machinery used in the West, thus maintaining the

focus on the actor. The expressiveness is aided by music, musical sound effects, and dance as these elements are wound in and throughout the kabuki performance. Movements and dance have specific, narrowly defined meanings unlike the imprecise and often ambiguous symbolism in western theater and dance. These differences prevented western audiences

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Gavalas Gets AIChE Award

George R. Gavalas, Professor of Chemical Engineering at Caltech, has been named the 1983 recipient of the R. H. Wilhelm Award in Chemical Reaction Engineering from the American Institute of Chemical Engineers (AIChE).

Sponsored by Mobil Research and Development Corp., the award was presented to Dr. Gavalas at an Honors Luncheon on Monday, October 31. The luncheon is one of the highlights of AIChE's five-day Annual Meeting and Diamond Jubilee celebration in Washington, D.C.

Dr. Gavalas receives the award, which is given annually to an individual who has made new and significant contributions to chemical reaction engineering, for fundamental advances in the analysis of chemically reacting systems and in the reaction engineering of coal. The award consists of a certificate, a \$3,000

honorarium and a \$500 stipend to cover travel expenses to the meeting.

Following receipt of his engineering diploma from the National Technical University in Athens, Greece, Dr. Gavalas went on to complete his M.S. and Ph.D. degrees at the University of Minnesota. Immediately after graduation in 1964, he joined the staff of Caltech as an assistant professor, receiving full professor status in 1975. In addition to his academic work, Dr. Gavalas has done consulting for several firms and is currently carrying out joint research in coal liquefaction with Gulf Research and Development Co.

Dr. Gavalas is the author of 50 technical papers and for six years was a member of the editorial board for the *AIChE Journal*. He is a member of the Institute's Southern California local section which honored him with their Technical Achievement Award in 1968.



**Solstice Subduction
The Twa Corbies**

These plays by Greg Tomko-Pavia will be performed this weekend on November 11 and 12 at 8 pm in Ramo Auditorium. Tickets, available at the ticket office, are \$3 for students, \$5 all others.

Big T Needs Bigger Dues

The ASCIT BOD proposes a change in the by-laws concerning *Big T* dues (Article VIII, sec. 5).

The present bylaws read as follows:

"Each corporation member will be assessed fifteen dollars (\$15) for the *Big T*, payable on the days of registration at the rate of five dollars (\$5) per term."

The new by-laws would read:

"Each corporation member will be assessed twenty-four dollars (\$24) for the *Big T*, payable on the days of registration at the rate of eight dollars (\$8) per term."

These dues have been, and will continue to be, refundable upon reasonable request. The board feels that this change is necessary in order to provide a realistic budget in light of rapidly rising costs of publication. The dues have not been raised for at least seven years,

and the price of the present *Big T* is far below that of comparable yearbooks at other schools—far enough below that this year ASCIT is having to ask for a \$7000 loan from the Institute due to a lack of funds to cover the printing and publishing costs of the *Big T*.

The Institute has agreed to provide this loan *contingent* upon the raising of the dues to what they and we feel is a practical amount to provide for better *Big T*'s in the future. In light of how much other campus costs have increased, it is felt that \$3 per term is not an unreasonable increase.

Please help us take care of this matter quickly by voting on the proposed increase in a ballot to be held next Tuesday the 15th of November. In order to pass, the proposal must receive a two-thirds majority of all votes cast.

—Teresa Solberg, Secretary
Paul Filmer, Treasurer
ASCIT BOD

the gadfly

No. 4

An examination of student life at Caltech

Rent-a-Tech-Wreck?

It is very easy to remain within four or five blocks of the Caltech campus for an entire term or more. Weekend food can be bought at the Pantry or B.C. and that takes care of the only essential item. In addition, there are some nice but not necessary things available on or very near campus like movies, a bookstore, the Plaza Pasadena, a post office, a library, other students, etc. Even over Christmas and spring breaks, the houses remain open and it is easy to just stay around rather than leave, especially since the breaks are so short. Often students come from places where summer jobs are scarce or non-existent. Since the summer cash is essential for the next year, it becomes very convenient to just stay on campus for the whole summer. Housing is inexpensive and jobs can be found in abundance for the asking. A whole year can pass with only a handful of trips off-campus (probably all to Tommy's) and no visits home.

Of course, this doesn't always happen and when it does, it is sometimes by the student's own choice. On the other hand though, there are also those who would like to get away for a while but don't have the opportunity, means, or funds. It would be great if something was available for them since the need to get away is such a natural and necessary one. It is convenient to have all that one needs close at hand, but it is very limiting and unhealthy to be always confined in a single location with no changes of scenery and no exposure to other settings.

One major problem is simply Los Angeles itself. While it has plenty to offer, it is difficult if not impossible to get around to it all without a car. The city is spread very widely with only a skeleton of a mass transit system to tie it together. One idea, therefore, would be for Caltech to run a rent-a-car or rent-a-wreck for its students. It does not have to be a major operation; all that is needed is 5 or 6 cars for students to rent for a few dollars a day or evening to go to a concert, the beach, shopping, a museum, sight-seeing or just out for dinner. Anything that runs on four wheels would qualify for this purpose. They would also be of great service to those who have to stay on campus over vacations. These students have plenty of time to burn and access to a car gives them a chance to at least get away for a day or two. This car rental program can be implemented by ASCIT, The Y, or the Master's or Dean's office. Each always seems to have money to spare and this is one thing which would be widely used and appreciated. An alternative would be a commercial arrange-

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The Caltech Y Fly-by

Friday...November 11

Interhouse—Yes, folks....this is IT! It is not a Y event but it is sure is worth mentioning. Quit trolling and enjoy the festivities, which start around 8:30. (I heard Page is somewhere in the Twilight Zone though)

Monday...November 14

CIT/JPL Relationships will be discussed by Dr. Lew Allen, director of JPL. Opportunities for students to become involved in the space program will also be discussed. Baxter Lecture Hall, 7:30 pm.

Wednesday...November 14

Noon Update—'Oceans on Titan', Yuk Yung, associate professor of planetary science, Caltech. Bring a lunch.

Thursday...November 17

Y Humanities Seminar—Poet Janet Kauffman will read from her prose work, 'Places in the World a Woman Could Walk', Judy Library, 110 Baxter, 4 pm.

Saturday...November 19

Bike Hike to Mount Wilson. Get psyched! Details in the Y office.

Ravi Shankar—The internationally acclaimed sitar player and master musician plays Ambassador Auditorium next Saturday at 8:30 pm, and the Y has 20 tickets available for the bargain price of only \$4.00(!). First come, first served, so sign up now for another incredible cultural experience brought to you by the cultured club at the Y.

For more information call 356-6163

letters

Women's Glee Club Should Stay

To the Editor:

The Caltech Men's and Women's Glee Clubs have been Caltech institutions for many years. The director of the Men's Glee Club, Dr. Don Caldwell, has recently proposed to make some drastic changes in the format of the Glee Clubs and of choral music at Caltech in general. We feel that some input from the students on this issue is necessary to ensure that the administration makes the best response to Don's proposal.

Two major changes are proposed. The first is the dissolution of the Women's Glee Club and the formation of a mixed chorus. The Men's Glee Club would not be dissolved. The mixed chorus would rehearse only one night a week for two hours. Don feels that this proposed chorus would be more popular than the WGC because many women at Caltech prefer mixed music to music for women only and because the time commitment would be smaller for the mixed chorus than for the WGC.

The second major change would be the removal of Monica Roegler, the WGC director, from her position. Even if the WGC is not dissolved, Don would like to see Monica dismissed because he feels that, when the Glee Clubs come together to do mixed music, the fact that the women have been directed in learning their parts by another

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From the Old Letterbox

Two Views on Fleming

The following is a view of Fleming House as seen from both sides of the window. The two views are written as commentaries and do not necessarily represent the views of the houses of the authors. On the inside, A Flem, on the outside, A Darb.

View From The Inside

I'm a reasonable guy, at least most people tell me that. I'm easy to get along with, I'm fun to talk to. I'm active in the Christian Fellowship. I like camping and four-wheeling and I'm a Flem. Many of you changed your impression of me because of the last word in the last sentence: Flem! A Flem, The Flem, some monster with a red shirt who attacks people, either kidnaps them or beats them up or gets together with other "Flems" with red shirts

continued on page 4

A View From Outside

Well, Dave, this certainly is interesting. It's great to know that we have a group of such fine, outstanding citizens who hold such high views of their fellow members of the Caltech community. It's great that when we visit Fleming, we feel such heart-felt warmth, such friendliness, such acceptance as fellow Techers...

Unfortunately, for some of us, the feeling has been slightly different—Baseball, hot dogs, apple pie, Mom, America, pit

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Why I Dislike Rotation

I dislike Rotation for a number of reasons. I strongly disagree with the premises on which it seems to be founded. I think that it has a harmful effect on members of the Caltech community and on the community as a whole. I strongly encourage that it be abolished.

I object to the idea of members of a house saying "Yes, you're alright you can live here," "No, you're not alright. We don't want you here," or "You can't live here." I disagree with the notion that somehow being able to limit which students can live in a particular on-campus house is a right of undergraduates worth protecting. I do not believe that an evaluation of

someone's character or personality, whether done in 15 minutes or over an entire term, is sufficient reason to prevent them from living in the student house of their choosing.

I feel that the only valid

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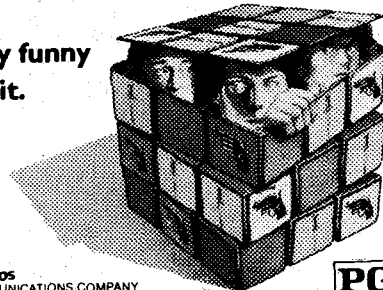
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THE ASCIT MOVIE

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The Big Sleep

9:40 pm

Saturday Evening in Baxter Lecture Hall
Students, \$1 All Others, \$2

the
gadflyFrom Tech to the
Outside World

from page 2

ment with a car rental company whereby students could rent with a Caltech ID, possibly at a reduced rate.

Taking courses at other schools is also an idea. There are schools around like the Art Center and Occidental but again, how does one get to those schools on a regular basis to take a class? Those and other schools offer the very wide range of good arts, history, language and literature courses that Caltech is missing. There always seems to be too few classes to choose from to fill the humanities requirements. The best classes fill up quickly and are closed before the term begins. The variety is the same each term every year; the same problem exists with P.E. classes. To fill these requirements and to just be in a different type of learning environment for a while, a Caltech student can benefit tremendously from taking a few classes at different schools in the area.

To be really effective and practical for the student, a shuttle bus and a common registration program can be set up. The purpose of the shuttle bus to transport students is obvious. Maybe something can be arranged where a student can pay the regular tuition at Tech and take a 9-unit equivalent course at a different school as one of his classes. The schools can work out the logistics of tuition between themselves. This is preferable to having to take a year's leave or transferring to attend school elsewhere because it allows for the extra exposure without delaying or ending one's Caltech education.

On the easier and lighter side, Caltech can simply have more joint social events with other schools. It can be really fun and enjoyable to socialize with non-Tech students sometimes. It would certainly add a lot to parties to have a different set of faces other than the same 800 or 100 that one sees all the time.

Any way it can be done, connections with the "outside" world could only be a benefit. If for no other reason, it would make transition into the real world after graduation easier. Beyond that, there is also the good reason that any one of these ideas would add much to the social life and atmosphere at Tech.

-Lily Wu

PAINTING

BY GREG SUSCA

CALTECH PAINTER WISHES TO DO SIDE WORK. SPRAY, BRUSH OR ROLL, COMMERCIAL, HOUSES, APARTMENT BUILDINGS, LACQUER CABINETS, NEW WORK OR OLD WORK, INSIDE OR OUTSIDE. NO JOB TOO BIG OR SMALL. FREE ADVICE WITH EVERY FREE ESTIMATE. SPECIAL RATES FOR ALL CALTECH EMPLOYEES AND ASSOCIATES.

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The Inside World

Blacker: Well, it was with a heavy heart that Blacker House witnessed the better half of civilization disappear from the face of the Earth. Even the most wantonly destructive Moles felt lumps in their throats and small tears [i.e. drops of water—Ed.] [That wasn't me.—Ed.] [?—Ed.] trickle down their noses and sit there for a while before falling screaming to their deaths and eventual evaporation as the atomic glow singed the eyebrows of those who dared to observe. All in all, a good time was had.

Cannes lost every alley challenge made this week.

We want Bloom County! We want Bloom County! We want Bloom County! We want Bloom County! We want Bloom County! We want Bloom County! We want Bloom County! We want Bloom County! We want Bloom County!

Not even Bannister Man could prevent the moon landing, but (help me, I'm drawn...) Ethan Norman Uspenis gave it a damned good try. Still, the award of the week could not be refused Hubert Gregory Rection, though many continue (blah blah Blacker blah) to try (as they might), see. [Hmm...—Ed.]

Hey! How about that band?

Ashes, ashes, we all fall down.

-Rodney was feeling a bit strange today.

Dabney: Invitation to all interested: Joe Decker is offering his services as a Teddy Bear. Women with good taste are free to come to room 12 Dabney and spend a night of restful, innocent sleep with a guaranteed "safe" male (His girlfriend would kill him if anything funny went on.) Several satisfied customers already. There is no charge.

Free hugs are available to all members of the Caltech community via various members of Alley 5. Check doors for participating individuals. Freshmen, Juniors in the physics option or victims of AMA 95 are especially invited.

Signups for the new *Caltech Tuck-in Club* are on the door of Room 26. The CTiC consists of members who will come to your room, read you a bedtime story, say your prayers with you, tuck you in and give you a kiss on the forehead before quietly turning off your light and closing the door. (Subscribers should have their own stuffed animals). Meeting date to be announced after sign-ups.

-Bill Callahan

Fleming: Fleming House has been the place to be this past week. On consecutive Sundays Fleming retained the Discobolus Trophy by beating Ricketts in soccer (led by Gene Pottenger and Terence Barr) and Lloyd in volleyball (behind the outstanding efforts from John Krehbiel and Tom Kupiszewski).

Preparations for Interhouse are well under way thanks to Mark Eggleston, Dave Durham, Rajiv Sahney, Coop, and their work crews.

Congratulations to Mignon Belongie who got slammed last week at the Six House. Will somebody please send her home?

-Al Fansome

Page: In the last week, Page members have experienced a regression into childhood. Last Friday a massive kickball game was played between the Freshmen and Sophomores. On Wednesday, sixty of us played a game of "Capture the Flag," using the entire campus for a playing field. And a week ago, ten frosh and two froshly waiters failed in their attempts to achieve the studly "six-man lift." On a different note, our Interhouse ride is coming along maximally Page lives!

-Lisa Cummings

Lloyd: Life goes on, despite the (permanent?) loss of our Gordon. Since I was the only one foolish enough to ask who was going to write the Inside World, I got the job.

We had a tremendous turnout (50%!?) for last Friday's social event (also known as the ASCIT movie). Construction has begun on the runway and we expect to have daily United Airlines flights beginning next week. Cook Interhouse! (See the ad elsewhere in the *Tech*.)

P.S. — Weop hunting licenses are still available. See Ken Adelman.

-Rod Van Meter

Ricketts: Well, it's the week before interhouse and as usual interest in lounge bridge greatly exceeds our preparations. The house was relatively quiet after surviving the siege of midterms, most of the house concluded the week by blowing off steam with the Stanford Band on Friday night. This being the week after midterms, most of the house has been spending their free time contemplating tortures for their favorite prof while the house pyro's have been practicing for turning dreams to reality. (aren't back seat editors a pain?) We want Bloom County too! We want Bloom County too! etc. If we can't have Doonesbury, anyway (One more punctuation correction and I'll rip your tongue out and use it for a doormat! Commas, are, evil, dammit!!) I Quit!?!?

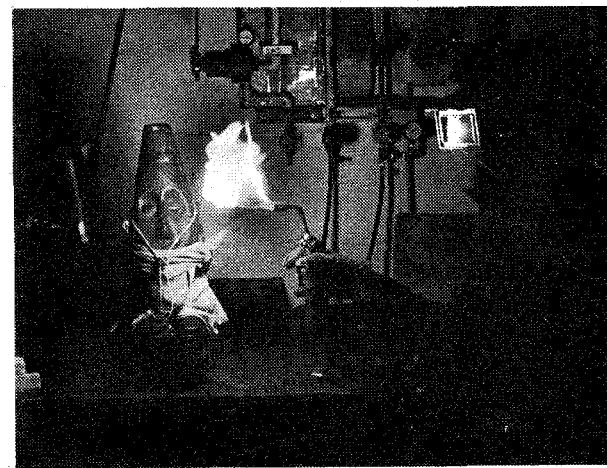
-Bob Bolender

Ruddock: No entry.

EXTRA! Fingle kidnapped: This past week, a terrorist organization calling themselves the "exterminators" struck again at Caltech. For the second time in four years, they kidnapped the Lloyd House god, Fingle, and have made the following demands for his safe return.

1. The high priest of Lloyd, aided by the Lloyd House Excomm and warlord, must hold a prayer service for the safe return of Fingle. The service must be held at high noon on the Olive Walk in front of the Athenaeum and must include a processional, a chant, and a sacrifice. All participants must be wearing appropriate attire.
2. As an act of purification, no member of Lloyd House may play any video or computer games for the 24 hour period directly preceding the service.
3. The service must be held on Thursday, November 17th. It is said that the more impressive the service, the more likely Fingle will be quickly and safely returned.

-CNB (Caltech News Bureau)

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Faculty, Grad Students, Attend!
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B. C.: On Lake Avenue
½ Block North of California

Guarneri Gets Unending Applause

from page 1

Meanwhile, Micheal Tree's viola echoes in the background. The slow movement is unique to Kodály—a sort of instrumental speaking or "recitative." This was truly the highlight of the work, containing an impressive intensity of feeling almost amplified by the players themselves.

After a brief intermission, the Guarneri returned with Schubert's First (of three) Quartet. It is named "Death and the Maiden" due to the second movement which includes variations on Schubert's song of the same title. The first movement is a quick allegro representing the struggle with

Death. Following the theme variations, came the highlight of the entire performance, a scherzo visualizing Death as a demon fiddler, and indeed, the first violin is. The audience could barely hold back their applause until the end (there were a couple of whews and bravos).

The Guarneri, in response to unending applause, played as an anchor the scherzo to Tchaikovsky's First Quartet. This was his first work to receive wide acclaim outside of Russia. Undoubtedly, this is due to its very delightful, almost whimsical theme. Again, the Guarneri played

with the charm and ease that identify them as the world's best quartet. If they return next year, and hopefully they will, the performance should not be missed.

For those more interested in the music, all of Beethoven's string quartets can be found on CBS GM 101, a ten record set with the Julliard Quartet. Unfortunately, the quality of the performance and the recording is somewhat poor. Kodály's Second String Quartet can be found on an excellent recording (Decc Ace SDD 543) with the Küchl Quartet, now called the Musikverein. Schubert chamber music should be quite easy to find, especially on Deutsche Grammophon.

—Chris Meisl

The Body Shop

Tips for Ski Season

Be prepared! Ski season is near. Here are some health tips offered through the California Medical Association.

1. Sturdy physical condition is one of the first steps to accident prevention. Walking, jogging and swimming will aid in strengthening arms, shoulders and legs.

2. During the ski season spend 10 or 15 minutes daily doing push-ups, knee and waist bends and other strengthening exercises.

3. Get adequate rest and sleep to maintain body control.

4. High energy diet is very important during your ski weekend. Raisins and chocolate candy bars are great for snacks.

5. Select a qualified instructor. This will be the best overall procedure for developing correct techniques.

6. Some other points to remember:

a) Never ski alone. Develop the buddy system.

b) Do not wear long scarves, they can become a noose causing serious injury.

—Leila Costa, R.N., N.P.
Young Health Center

Kabuki

from page 1

and scholars from appreciating kabuki until this century. Interest had grown as western audiences have learned to appreciate this colorful and exciting art form.

If you are interested in learning more about this fascinating and different style of theater, we invite you to come by Wednesday. Everyone is invited. Admission is free. This event is sponsored by the Caltech Drama Club. For more information call x6259.

letters

From the Inside

from page 2

and attacks whole houses! Oh hide the children, lock the doors, call the police, the Flems are coming!

Give me a Break!

The following is the way Fleming is.

More than 50% of the people in Fleming have an active like of the following:

Baseball, hot dogs, apple pie, Mom, America, Truth, Justice and yes, even puppies.

Most of the people in Fleming are reasonable, intelligent and outgoing.

Yet as true as these statements are, you can find members of the Caltech community who hear the word "Flem" and think of "Asshole." Well the person I described isn't an asshole, he's a Flem. He cares about his house and he cares about the campus.

Most people would say "well, Flems are OK as individuals, but when they get together and put on their red shirts they turn into assholes."

Well believe it or not, donning an article of clothing does not change anything about you. It only changes how you appear to others.

When I walk down the Olive Walk or into a house I don't get a second glance, but

if I've got my Fleming Shirt on, look out. I don't get treated the same. I don't act any different but I sure get treated differently. And why? Because of what people think of Fleming. Not what they know about Fleming, not what they've seen in Fleming, but what they think they know. Well, sorry to be the bearer of bad news but the average view of the average Flem is, on average, wrong!

Think about it, if Fleming did everything that we're credited for we'd never have time to do the things we really do, like: having parties, fielding athletic teams, taking beach trips, doing homework.

Contrary to popular opinion, the "Real Flem" is not the same as the "Perceived Flem."

Fleming is often in the public eye, mostly because they're so easy to pick out with their red shirts. Fleming is a house of friends. They care about each other and they support each other. But it doesn't stop there. The president of ASCIT and the Chairman of the IHC are also Flems, because they also care about what happens on campus.

Well, I'm tired of people talking about Fleming without knowing about Fleming.

Enlightenment:

Fleming asks a lot of its
continued on page 5

The Company

Megatest builds the finest LSI testers in the world. Our systems test more microprocessors, EPROMs and Bubble Memories than anybody else's. They have broken all industry records for reliability. They have altered the way people think about device testing.

We've attained this standing in the industry while remaining a small, friendly, employee-owned company. How? By creating an environment that rewards creativity, effort and results, not politicking, rank or tradition. And by emphasizing neat ideas more than neat desks and neat dress.

The Job

We are now designing new test systems which will handle the "super-chips" of the future. These systems will require astoundingly powerful computers and near-perfect analog support circuitry. They will be specified in terms of picoseconds, nanoamps and gigabits.

We need people with as much potential as our new systems in the following areas:

Computer Scientists (language processors, interactive development tools)

Analog and Digital Engineers (high-speed ECL gate arrays and hybrids)

Marketing Engineers (combines technical and marketing skills)

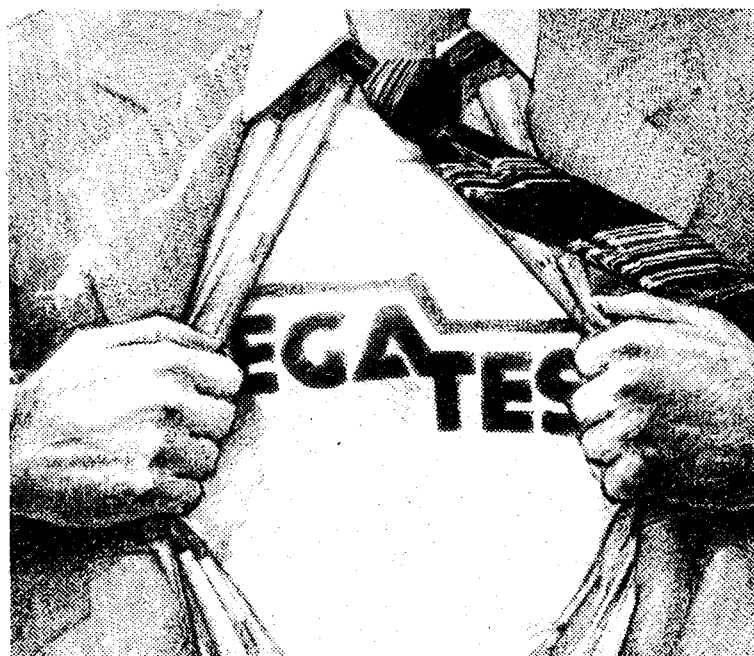
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From the Inside

from page 4

members. It asks you to have an active role in the house. It asks you to take an active interest in the other members of the house. It asks you to be an active participant in house events. Basically it asks you to get off your duff and do things. Don't be a "Lounge Rat," don't vegetate in your room. There are too many opportunities to do things here, so take advantage, take part. As a result, Fleming is a very active house, all the more remarkable because it's one of the smallest. The "House Attitude" is one of participation.

Yet and still Fleming, for the most part, is a house of itself, by itself and for itself. Yes we are involved in campus activities but we're not going to put another house above our own. Neither would I expect another house to put Fleming first. But, again contrary to popular opinion, it's not "Our House Right or Wrong," Rally round the Big Red Flag, boys and dig in. It's "Our House Right, and if it's not right, change it!"

Fleming is a house of people; active out-going guys and gals who like to put on their red shirts and get out and do things. Like any group of friends would want to. *They* (and by *they* I mean Flems doing things as members of Fleming House) do not do things with malice or disrespect to other houses. They do *not* sit around and think of ways to break the Honor Code, to take unfair advantage of students or the other houses.

A Flem is *not* a person who lives in Fleming. A Flem is a person who I've tried to describe in the previous 20 paragraphs.

If you see a group of people wearing Fleming shirts throwing smoke bombs at Lloyd and shouting obnoxious sayings, don't assume that that is the "Fleming House Attitude" toward Lloyd. Sure we've got our share of "Assholes" in the house as does any other house, but the Assholes don't rule, the Assholes don't lead and the Assholes don't make up the majority of Fleming, or any other house for that matter.

A house is made up of its members, all of its members, assholes and saints alike.

Most people think of "Flem" and allow the negative connotations to follow. When I think of "Flem" I think of friends and good times and the 99 out of 100 things I'm proud to be associated with. (99 out of 100, well, no house is perfect, but no house is *that* bad either.)

—Dave Durham
a Senior in Fleming

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From the Outside

from page 2

bull dogs, ... intimidation, arrogance, a suspicion that our rights under the honor system somehow won't be respected.

Actually, I really agree with most of what you say. While any generalization will necessarily be inaccurate, I agree that Flems as people seem to be as reasonable as anyone else at Caltech, at least most of the time. However, I feel that we would both have to agree that Flems, as well as members of other houses, sometimes put their own house above the Caltech community as a whole; they put the interests of their own house above the interests of the whole community, as embodied in the honor system.

Fleming house seems to be an unusually close-knit group of people. They are known to pick frosh with certain characteristics—notably an interest and aptitude in athletics.

So, the membership starts out being somewhat homogeneous. Then, our new Fleming frosh go through a rather elaborate initiation ritual, with extensive group physical involvement in the form of showering—which further strengthens their tribal identity. Then they wear house shirts, much more than other houses, or so it seems at least (which is quite a sacrifice, when you think about it, considering the remarkable odor-emitting qualities of nylon mesh!). So, here we have a closely-knit house, that, as compared to some other houses, tends to act much more as a group in many ways.

Thus, we would expect that incidents where people put the interests of their own house above the best interests of others may happen a little more often with Fleming than with houses with a less uniform house identity. And such incidents do happen. It wouldn't be fair of me to bring up some of the more famous incidents

from the past few years, since I can't speak from first-hand knowledge, but I can give one small example. I have often felt intimidated while visiting Fleming House. I have nearly been showered against my will on more than one occasion, without provocation, as apparently happens from time to time.

As this example shows, however, many if not most such incidents are caused more by misunderstanding than by maliciousness. For instance, if some Flems and Page dudes shower each other, this will be done in good fun, as such activities are normal in both houses. However, for a Darb to be showered against his will, without provocation, could be taking advantage of him, since he, because of his house experience, does not see showering and physical assault as a normal or acceptable activity.

The Flems, because of their close society, may have an unusually hard time understand-

ding and appreciating other people's points of view. However, when it comes to "RFs", I would like to encourage us to be mature people and consider if what we are doing is really being done in fun with everyone's well being in mind. If so, fine; go for it. But remember that getting back at people or defending one's house honor or trashing another house or whatever isn't all that important, really, if we're just going to be stepping on other people's rights. That's the important thing.

We don't expect our friends to bark obnoxiously and crap all over the carpet. However, once we understand that, while puppies and people both have life, it is a different kind of life, we learn to quietly tolerate the noise and teach it to do its thing outside. This way, we see that puppies, after all, can be fun...

—Elliot Hohri
Senior Darb

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GSC Volleyball Scores

Results of Wed. Oct. 26

A LEAGUE

HP's and Ruddock are still scoreless

Jet Setters bombed Kong's Killers 15-1, 15-2

Tapir slurped Page 15-5, 15-9

Brute Force overwhelmed Aesops 15-1, 15-11

Up-Setters set up Page 17-15, 15-7,

Six Hitters six-gunned Fleming 15-6, 15-6

B LEAGUE

Smashers smashed Scurves 15-11, 15-9,

Tire Irons struck Jerry's Kids 15-7, 15-9

Reynolds Numb-ers leveled Hydraulic Jumps 15-8, 15-3

Besops barely beat Gangbusters 15-13, 13-15, 5-4

Magnum Force splattered We're Mudd 15-11, 15-8

Overpaid Amateurs overplayed Face 9-15, 16-14, 6-3

Chow Dogs toyed with Strange Bruise 15-9, 1-15, 16-14

| Day | Date | Time | Sport | Opponent | Location |
|------|-------|----------|----------------------|--------------------------|-----------------|
| Fri. | 11-11 | 7:00 pm | Wrestling | Cal State Long Beach JV | Caltech |
| Sat. | 11-12 | TBA | Water Polo | SCIAC Tournament | Whittier |
| Sat. | 11-12 | 10:00 am | Soccer | Soccer Club | Caltech |
| Sat. | 11-12 | 11:00 am | Cross Country | NAIA Dist. 3 Meet | La Mirada Park |
| Sat. | 11-12 | 1:00 pm | Fencing | U.C. Santa Barbara | U.C. San Diego |
| Sat. | 11-12 | 1:30 pm | Football | Edwards Air Force Base | Edwards AFB |
| Sun. | 11-13 | TBA | Water Polo | SCIAC Tournament | Whittier |
| Mon. | 11-14 | 8:15 pm | Women's Volleyball | Occidental JV | Caltech |
| Wed. | 11-16 | 5:00 pm | Wrestling | C.S. Fullerton scrimmage | C.S. Fullerton |
| Wed. | 11-16 | 11:30 pm | Ice Hockey | U.C. Irvine #2 | West Covina Ice |
| Fri. | 11-18 | 7:00 pm | Basketball (Varsity) | Pac. Coast Bapt. Bible | Caltech |
| Sat. | 11-19 | 1:00 pm | Fencing | UCLA & C.S. Long Beach | Long Beach |
| Sat. | 11-19 | 1:30 pm | Football | U. of Baja California | Caltech |
| Sat. | 11-19 | 7:30 pm | Basketball (Varsity) | Christ College | Christ College |

Weekly Sports Calendar

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sports

Fencers Defeated

by Chien-Wei Han

Last Saturday the Caltech Fencing Team met Cal State Long Beach and UCLA.

Caltech first lost to an experienced Long Beach team. Scott Grossman, who is on the men's foil team, won a single victory. This was his first win of the season. The men's epee and saber teams had no wins.

The women's foil team did very well. To the opponent's surprise, the Caltech women won by a narrow margin. Kathy Sheedy won three bouts, Barbara Turpin two, Karla Peterson two, and Phyllis Li one. Daniela Bonafede didn't win any, but fought aggressively. Each team had eight wins and eight losses. However, since Caltech's women's foil team had seven more touches, they won the match.

Caltech also lost to UCLA. There were good performances among individuals. Andre

Burgoyne won his first victory of the season against one of his opponents. Scott Grossman and Kurt Anderson had some nice touches. The men's foil team seems to be improving slowly. They are losing bouts more narrowly than in the previous matches. On the epee team, James Bell defeated all of his three UCLA opponents. Kenny Bell also performed well and did fine movements. On the saber team Chien-Wei Han won two bouts. Peter Konopka almost won one bout. Lee Sunderlin made some nice parries and cuts.

The women's foil team did not do as well as they had against Long Beach. The only people who won were Kathy Sheedy and Barbara Turpin, who both won two bouts.

This Saturday Caltech's fencing teams will go to San Diego to fence UCSD and UC Santa Barbara.

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We'll be on campus
Monday, November 21st



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Marivaux Auditions

Auditions for two one-act plays by Marivaux will be held next weekend, November 17-20 (Thu-Sun) from 7:30-11:00 pm on Thursday and Friday, and 1-5 pm on Saturday and Sunday in Clubroom 1, upstairs in Winnett Center. The plays are *The Colony*, a *Lysistrata*-like political comedy concerning women's lib, and *The Dispute*, concerning an experiment to determine whether man or woman was first unfaithful.

Tutoring Tune-Up

The Caltech Y's grade-school teaching assistance program will be holding informational meetings next Tuesday, November 15, at 12 noon and 4 pm in the Y Lounge. All those interested are encouraged to attend either meeting.

For more preliminary information, talk to Theresa Birdseye, Ron Pekar, or Erik Fernandez, or stop by The Y.

Mexico's Mints

The speaker at the November 16 meeting of the Caltech-JPL Numismatic Society will be Albert Hall. His subject will be "Many Mints of Mexico in 8 Reales." Commerce in the young United States was very dependent upon the use of coins struck in Mexico and other Latin American sites prior to and overlapping with development of a national mintage. Until 1857 such "foreign" coinage circulated quite freely in our country.

All members of the Caltech-JPL community and their families are most welcome at meetings which are held at 7:30 pm the third Wednesday of each month in the Church Lab Building on campus.

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announcements

SWE Presents

The Society of Women Engineers is hosting a presentation and informal discussion by Jean Fetter, the assistant dean of graduate studies and research at Stanford. The presentation is Tuesday, November 15, from 11 until noon in Winnett Clubroom 1 and is open to all who are interested in finding out about graduate opportunities at Stanford. A lunch is scheduled following the presentation—remember to RSVP to Career Planning and Placement *today*, at x6361, for lunch reservations. For more information, contact Melissa Farrell or the Career Planning and Placement Center.

Fresh Perspectives

On Wednesday, November 16 at 8:30 pm in Clubroom 1 of Winnett Student Center, this week's Freshman Perspectives discussion will take place. These weekly sessions are devoted to finding solutions to campus social problems, by working within the existing house system, if possible. Please come and voice your opinions, whether you are a freshman, upperclassman, grad student, or faculty member.

Badminton Open

The U.S. Open Badminton Championships will be held at the Manhattan Beach Badminton Club, 516 18th St., Manhattan Beach, from November 18-20. The initial matches through the quarter finals (Friday beginning at noon, and Saturday from 9 am until the quarter finals finish) are free and open to the public. The semi-final matches will be Saturday, beginning at 5 pm, and cost \$4.00 admission. The finals are Sunday at 1 pm, and cost \$5.00 admission. In addition, there will be a special Challenge Cup between the Mexico and U.S.A. teams on Wednesday, Nov. 16 at 7 pm, admission \$2.50. For more information call Wes Schoppe at (213) 538-9734.

Prose Reading

Janet Kauffman, noted poet, will be reading some prose from her upcoming collection of short stories, "Places in the World a Woman Could Walk", on Thursday, Nov. 17 in the Judy Library at 4 pm. She is also the author of a book of poems, "The Weather Book", which is an AWP Series Selection.

Computer Graphics

Come FREE to the Computer Graphics Showcase at Caltech November 19th and 20th. Los Angeles ACM/SIGGRAPH is sponsoring this exciting event and needs help. To volunteer call Nancy Collier at (213) 439-5194.

Shabbat

The week is over. Come celebrate the Sabbath at the Hillel Jewish Student Organization Friday night services, 5:30-6 pm today in the Y Lounge, upstairs in Winnett Center.

Ten for GLAMOUR

Caltech women are invited to participate in *Glamour* Magazine's 1984 Top Ten College Women Competition. Young women from colleges and universities throughout the country will compete in *Glamour's* search for ten outstanding students. Winners will be selected for their records of achievement in academic studies and/or in extracurricular activities on campus or in the community.

In 1982, the first year that Caltech students participated in the competition, Sue VandeWoude '82 was one of the winners.

The 1984 Top Ten College Women will be featured in *Glamour's* August College Issue. During May, June, or July, the ten winners will receive an all-expenses-paid trip to New York City and will participate in meetings with professionals in their area of interest.

Anyone who is interested in entering the search should contact Tom Branigan at x6225 for more information. Institute photographer Bob Paz can take pictures for Caltech candidates. The deadline for submitting an application to *Glamour* is December 9, 1983.

More HSS Courses

The following are additions to the Humanities and Social Sciences course schedule for second term:

Ec/PS 134—The Political Economy of Urban Areas. This will be taught by Rod Kiewiet. Hours to be MW 10:00 am. The course will focus on the development of a theory of urban government using analytical concepts from microeconomics and political science.

H 111—The City-State. This course will be taught by Eleanor Searle. The course will consider the general phenomenon of the city-state, the characteristic urban in the Mediterranean from antiquity to the early modern period. It will be on Wednesdays from 2-5:00 pm.

Lit 172—Literary Creativity. Taught by Stuart Ende on 1-4 pm. The focus of this course is on the sources and products of the creative process as exemplified by the works of such important writers as Milton Coleridge, Tennyson, Yeats and Plath.

Piano Recitals

Pianist James Boyk will give his seventh annual recital in Dabney Lounge tonight, Nov. 11 at 8 pm and Sunday, Nov. 13 at 2:30 pm. Included on the program will be Debussy's "Reflections in the Water"; Stravinsky's "Sonata"; Schoenberg's "Six Little Piano Pieces, Op. 19"; Ravel's "Sonatina"; and Schubert's "Impromptu, Op. 90".

Boyk has been an active performer since his debut with the Toledo Orchestra at age 16. He has appeared at the Salle Chapagne in Montreal, Boston Gardner Museum and at the Conservatory Recital Hall in Brussels. Currently, he is Artist-in-Residence at Caltech.

There is no admission charge for this concert and tickets are not required. For further information, call 356-4652.

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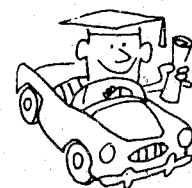
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