

Senator Nunn's Bill To Reduce Federal Aid

by Craig Volden

"Between 1980 and 1988, costs for public and private colleges rose by about 40 percent after inflation, while family income grew by only 33 percent. During the same period, federal student aid grew by just 3 percent after inflation." If you think Congress is unaware of these figures, you're off the mark. If you think their solutions to financial aid shortages are going to be conventional, you're even further off.

On 25 January, Senator Sam Nunn and Congressman Dave McCurdy introduced to Congress what will be known as the Citizenship and National Service Act of 1989. In their stirring introductory speeches, these legislators outlined three problems. The first is that of financial aid for education and vocational training. The second is that of young people's being unable to finance and buy homes. And the third is that of national public service, which has not met the lofty ideals set by President John F. Kennedy: to "Ask not what our country can do for us, but what we can do for our country."

To the growing supporters of the new bill, all of these problems have the same solution: what Nunn described as "an idea whose time has come." With a five-year phase-in period, the Citizenship and National Service Act of 1989 would "encourage young Americans to serve their country" for one or two years, by providing great incentives to do so. The Civilian Service jobs, ranging from educational service to human service to public safety, would provide income of \$100/week, and a \$10,000 voucher for each year of service, which could be used toward an education or the downpayment on a home.

The controversial portion of this bill is noted in the funding processes, Nunn stated, "In the light

of our current fiscal plight, it is important that this legislation add nothing to the Federal deficit." In order to do this, the programs are to be run basically on the state and local levels, with a 25%/75% state/federal funding ratio. The 75% that the federal government would pay will, according to the senator, come from reduced need for financial aid in the form of loans and grants. With few exceptions, most students will be made ineligible to receive Pell Grants and other forms of aid, after the five-year period.

The effect of cutting aid in the form of loans and grants is unknown. Indeed, some students will take the service jobs, and on to college, as the proponents of the bill suggested. Yet others may well be discouraged by the work, unrelated to their professions, for which they receive little immediate compensation. These people may decide that attending college is no longer a worthwhile alternative. And all of the students who wanted a free ride would find the goings a little tougher.

As with most bills in Congress, nothing is definite in these early stages. As Senator Nunn put it, "I view this legislation not as the last work but as the conceptual starting point for a thorough-going debate on the possibilities of voluntary national service. I am a realist, and I know some aspects of this proposal will be controversial."

To field this controversy, *The California Tech* will print your comments for and against this legislation in next week's paper. Please submit your opinions to the *Tech* Office in the SAC. For more information or more direct results from your comments, Senator Sam Nunn can be reached by writing to him care of the U.S. Senate, Washington, D.C. 20510; or by calling 202-224-3521.



Murray Gell-Mann demonstrates the Heimlich maneuver on himself during his Watson Lecture on Complexity

photo by Marc Turner

Runoff Election and Bylaw Changes

ASCIT Secretary
Pamela Katz Rosten 204
Todd Schamberger 177

IHC Chairman
Marty O'Brien 202
David Jeitner 151

ASCIT Athletic Manager
Scott Kister 218
Emmeline Naranjo & Nancy Hua 156

ASCIT Activities Chairmen
Ken Andrews, Ed Nanale, Eugene Lit, and Glenn Eychaner 151
Pete Wenzel, Rob Padula, Mike Ricci, and Andrea Meija 148

BOC Representative-at-Large Selection Results
Maneesh Sahani and Craig Volden were chosen by the board to fill the two Representative-at-Large positions after the BOC's selection process had been completed.

The four bylaw changes passed by overwhelming margins.



WEEKLY SPORTS RESULTS

Day	Date	Sport	Opponent	Results
Fri.	2-10	Basketball	Occidental JV	53-60
Sat.	2-11	Swimming (M-W)	San Bernadino & P.C.C.	cancelled
Sat.	2-11	Tennis (W)	Christ College	6-3
Sat.	2-11	Baseball (2)	Menlo College	11-4, 5-7
Sat.	2-11	Track	Chapman, Christ, LaVerne, Masters & Whittier	Men vs Chapman 124-14, Christ 124-17, LaVerne 129-11, Masters 116-30, Whittier 95-45
				Women vs Chapman 85-5, Christ 74-29, Masters 85-19, Whittier 70-39
Sat.	2-11	Tennis (M)	Claremont Mudd	0-9
Tue.	2-14	Baseball	Pac. Coast Baptist Bible College	4-7
Tue.	2-14	Tennis (M)	Pomona Pitzer	0-9
Tue.	2-14	Basketball	Claremont-Mudd JV	56-69
Wed.	2-15	Tennis (W)	Pasadena City College	3-6
Wed.	2-15	Ice Hockey	Pepperdine	1-4

WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Fri.	2-17	9:30 am	Swimming	SCIAC Championship	Cerritos
Fri.	2-17	2:30 pm	Baseball	La Verne JV	La Verne
Fri.	2-17	7:30 pm	Basketball	Pomona-Pitzer JV	Caltech
Sat.	2-18	9:30 am	Swimming	SCIAC Championship	Cerritos
Sat.	2-18	10:00 am	Tennis (W)	Pomona-Pitzer	Pomona-Pitzer
Sat.	2-18	11:00 am	Baseball (2)	La Verne JV	Caltech
Sat.	2-18	11:00 am	Track	Pomona-Pitzer All-Comers	Pomona-Pitzer
Sat.	2-18	2:00 pm	Tennis (M)	Redlands	Redlands
Sun.	2-19	11:15 am	Ice Hockey	Pepperdine	Pasadena Ice Center
Sun.	2-19	12 noon	Swimming	SCIAC Championship	Cerritos
Tue.	2-21	3:00 pm	Tennis (M)	Occidental	Caltech
Tue.	2-21	6:00 pm	Basketball	La Verne JV	La Verne
Wed.	2-22	3:00 pm	Tennis (W)	La Verne	Caltech
Wed.	2-22	9:45 pm	Ice Hockey	UCLA #2	Pasadena Ice Center
Fri.	2-24	7:30 pm	Basketball	Whittier JV	Caltech
Sat.	2-25	10:00 am	Fencing	Cal Poly Pom. & UC Santa Cruz	Cal State Long Beach
Sat.	2-25	12 noon	Baseball (2)	Pac. Coast Baptist Bible College	Caltech
Sat.	2-25	12 noon	Track	Biola & many others	Caltech
Sat.	2-25	1:30 pm	Tennis (M)	Whittier	Whittier
Sat.	2-25	1:30 pm	Tennis (W)	Claremont-Mudd-Scripps	CMS

CRIME BEAT

Incidents:

2-9-89 In the SAC. 5' by 3' hole kicked in wall.

2-10-89 Chester parking lot. Door lock on passenger side of truck tampered with.

2-14-89 Two students were hot wiring a service vehicle. They said they were getting a desk from South Mudd.

Thefts:

2-1-89 The SAC. JVC AM/FM tape player stolen from room 34.

2-4-89 Salvatori Room. Projector stolen.

2-11-89 Bridge Annex. Locked bike stolen from north entrance.

2-11-89 Page House. Joystick stolen from computer room.

2-13-89 North Mudd. Yellow Novara bike (\$600) and black ski jacket stolen.

2-14-89 Noyes Lab. Sony cassette headset stolen from desk in room 134.

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

letters

Phone
Night
Blues

Editors:

Once again Caltech is trying to raise funds from the alumni. I am not opposed to the general goal as I am the method.

Alumni phoning is harassment and a violation of privacy. I did it last year and did not enjoy it. According to the pep talk we received, the people we were calling had already been contacted by mail. The money must have been raised then by laying a guilt trip on the alumni: if they had wanted to give they would have responded to the letter. Any phone call that is placed is solely to lay a guilt trip to get money out of the people then, in my view, is a violation of privacy.

There is great pressure in the house to phone alumni because the house will receive \$1000 if fifty people show up. In trying to convince me to participate, some say I should call my mother if I do not like calling the alumni. But although my mother would appreciate the call, this is an honor system violation (taking unfair advantage of the Alumni Association).

Apparently, a 1987 act of the California Legislature requires colleges to urge students to perform at least thirty hours of community service by the time they graduate. A commitment of thirty hours would be about equivalent to phoning alumni eight times while at Caltech. I think that this would serve as a good alternative to the current system.

-Fred Mallon
1-60



features

The Changing Roles of Men in Society

by Josh Kurutz
Second in a Series

"Pandora's Box has been sprung open," declared one man on the video, "Men's Changing Roles," shown at last Friday's Men's Discussion Group at the Health Center. This vocal individual was referring to what he perceived as the irreversible shift in men's roles in our society. The remainder of the meeting was spent watching and discussing this video, which covered a broad scope of men's issues.

Relationships

"Traditional ways of behaving aren't functional anymore," said one authority in the video. He explained that they create rage in females and subsequent guilt in males who feel responsible for their rage.

These modes of acting result in the annihilation of the female's identity. As the situation stands, many women remain trapped by the stigma of a sex object. Likewise, men are struggling with their function as initiators, according to the experts interviewed.

One man interviewed described his experience, seen by many to be common, with the anxiety of initiation. "I go to a woman and start talking to her. She has power because she can be silent. Still, I have to figure out what she wants in a man and show her that I'm it." The differences in how the sexes experience emotions was the subject of much discussion in the presentation. Some believe that emotions are traditionally thought of only in the female sense; in other words, women are held to dominate the emotional scene.

Many are now finding that this approach is archaic. Males are now found to have deep feelings, but express them in different ways. For example, many have found that a good deal of emotions that could be called "male" incorporate some elements of grief.

Same sex relationships are also

seen to be different between the sexes. Women's relations with each other were described as, "face-to-face," whereas men's are called more, "side-by-side." Some researchers also noticed that men communicate more non-verbally than women do. One such observer commented on the nobility of this silence and discussed analogies with primitive hunters returning to camp.

Homophobia is also a quality of males' same sex relationships. Many men fear close friendship with other men because it could expose the fear, "I might be gay." This is a tremendous force in our culture that keeps men distant from each other.

Psychologists interviewed in the video hypothesized that emotions that characterize men's behavior regarding other men may have roots in childhood. Lessons learned then stress power, territorialism, and feelings of inferiority among other males. These patterns are probably learned from fathers, who are recognized to have a great influence on male development.

The paternal importance is quite strange in the light of the nature of the "absent father," who characterizes the father of most Americans since the Industrial Revolution. The average father spends about 10 minutes per day with his children, according to Dr. Jon Pedersen, the organizer of these discussions. Despite his lack of presence, "dad" has tremendous impact on a boy's growth, though it is still unclear what this is exactly.

This issue is becoming increasingly important now that fathers' roles are changing also. In accordance with most ideas of future male images, fathers now are being encouraged to express gentle, nurturing, and loving emotions for their children.

This opening up of their emotions is hoped to have a generally relaxing effect on men who are, by

and large, restricted in the emotional arena. Evidence of this restriction was cited in the discussion: males have a heart attack rate 400 percent higher than that for women. Clearly they are under a great deal of stress.

Expectations

Such anxieties may have roots in society's expectations of males. For example, men are sent messages that they are expected to perform well both sexually and professionally. If they do not do so, they are shamed rigorously by others or even themselves.

Our culture also presents images that attack their self esteem. One frequently cited example of this is "Rambo." One author interviewed in the video judged, "the new macho man-Rambo type is back in the media." Many men feel that everyone around them will think they are "wimps" if they are not as aggressive as this movie fiction.

Expectations of superior professional performance dominate most men in our culture. Self worth is more or less determined by feelings of achievement. Many feel pressure that they always need to do more work. Most even believe that struggling with no immediate reward implies success in a way, and *vice versa*.

Feelings of power are encouraged in men, according to the presentation. Many think that, because they are male, they have the right to give orders to those around them, *i.e.* to exercise power. (This activity was quaintly deemed "musterbation.")

The importance attached to achievement was the source for most of the discussion at the meeting. For example, the question was raised, "Where's my place in a world of men whose sense of self worth is based on achievement?" Many feel society declares, "If you don't sacrifice yourself, you aren't any good."

One response was expressed, "If you don't sacrifice yourself, maybe you shouldn't be working at that job." A lengthy discussion of this point ensued, seeming to conclude that this was a truth, though it may be bleak.

On a lighter note, the group talked about the power that men currently have and the constructive ways it could be put to use. If men want to change their roles in society, their power in that society makes it easier for the change to happen.

This would have positive implications for both halves of the "sexual liberation movement." Many believe that the feminist movement cannot ever fulfill its goals of sexual equality unless men also adopt new societal roles. Once men start changing to these new conditions, sexual equality (not androgyny, most factions of the movements) can be achieved much more easily.

There will be another discussion group today at noon in the Health Center. The central topic will be the discussion of a fable allegorical of the men's movement.

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EDITORS

Mark Lyttle
Paul Socolow
Chris Campo

REPORTERS

Josh Kurutz
Craig Volden

PHOTOGRAPHS

Marc Turner, *ed.*

SPORTS

Scott Kister, *ed.*
Larry Ahle
Ari Kaplan
John Raguin
Dave Geraghty
John Haba

PRODUCTION

Positions Open

BUSINESS MANAGER

Position Open

OFFICE MANAGER

Gavin Claypool

ADVERTISING

Gavin Claypool

CIRCULATION

Donald Finnell
Peyjen Wu

THE CALIFORNIA TECH

40-58 SAC
California Institute of Technology
Pasadena, California 91125
(818) 356-6154

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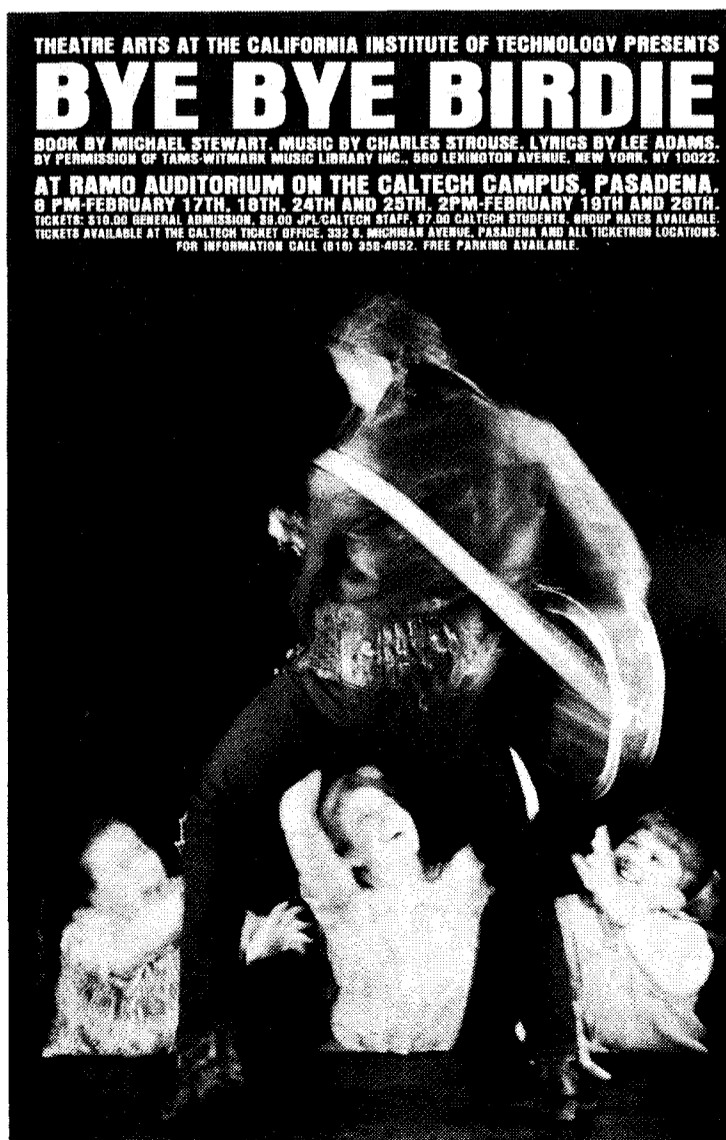
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Next Week Heartbreak Ridge



Tennis Team Robbed

by Cory Snyder

Before this past week, the women's tennis team's most recent encounters with Christ College Irvine and PCC have resembled Caltech highlight films, more than tennis matches. 9-0 shutouts were the results in both cases; the annihilation of CCI opened the 1989 Beaver season, while PCC's whitewashing took place in last year's Battle of Pasadena. Neither opponent had subpar talent, but rather the Caltech women simply played exceptionally well. Last week, however, the highlight films stopped rolling and the female racketeers found themselves in two very close matches.

Saturday, Christ College made the long haul to Pasadena looking to avenge their humiliating home court loss three weeks earlier. As usual, their lovely and talented #1 seed Corrie Stelmachowicz put on a great show for the fans. And this time, she played a great game of tennis as well. She bested Caltech's own fan favorite, Carol Choy, 6-2 7-6. In general, it was not a good day for the Beavers as #2 singles player Jane Seto lost her match in three sets, while the #1 doubles team of Carol Choy and Carol Mullenax was beaten as well.

On that day, however, Caltech's wealth of female tennis talent proved to be the deciding factor in the overall match. #3 singles player Laura Hernandez and #6 seed Karen Oegema were the pivotal figures in the team's 6-3 victory. Laura scored impressive wins in singles (6-0 6-2) and doubles, while Karen got the unexpected nod at sixth singles (due to one player's "added rest" that morning) and came through with a 6-4 6-2 win.

Last Wednesday, Caltech faced PCC with the bragging rights of Pasadena at stake. The match had all the earmarks of a bitter cross-town rivalry; there was no shortage of dirty looks thrown on either side. When all was said and done, PCC left the courts with a 6-3 vic-

tory, but not without stirring up a lot of controversy.

One particular point of discussion was a deuce point in Carol Choy's match against PCC's #1 seed Jane Tarkanian (Yes, niece of UNLV's beloved Tark the Shark.)

After losing the first set [6-0] due to feeling slightly under the weather and getting down 4-1 in the second, Carol came roaring back. Down 6-5 in the set, she hit a deep winner which Tark couldn't track down. That point should have given Choy the game and forced a tie breaker, but Ms. Tarkanian said, "It was just a little out," and the match was over.

Let me tell you that this reporter was standing very close to the spot where the ball hit the ground, and it was nowhere NEAR out. I'm sad to say that it was the most blatant case of cheating this journalist ever has witnessed. There was no recourse to protest, however, since no referee was present and the call was Ms. Tarkanian's. I wonder if she sleeps well at night.

All controversy aside, there were some other interesting aspects to the match. Carol Mullenax continued to play at an amazingly high level, as she's done all season. "Nax" has really put her singles game together since last season. Laura Hernandez played very well in the latter part of her match, but couldn't recover from a sluggish start in a tiring first set loss. And in a final note in the match, Junko Munakata suffered a fate analogous to her much beloved Cleveland Indians of 1988. After dominating the early portion of her match, she suffered an injury at the beginning of the second set, which severely hampered her game and caused her to lose in the long run.

Well, if you're walking down Colorado Blvd. one day and you hear the passersby mocking our women's tennis team, there's no reason not to hold your head high and look them straight in the face. You know better: we were robbed.

Track Studs Start Season 5-0

by John Raguin

In case you didn't know, the track season is off and rolling. Masters, Whittier, LaVerne, Christ, and Chapman College decided to come to the first annual Caltech Invitational. Caltech played no favorites, by romping over all five of the teams.

When we talk of a romp, I mean a beating! Caltech beat Whittier 95-45, Masters 116-30, Christ 124-17, Chapman 124-14, and LaVerne 129-11! Now, these are the men's scores, but the women were just as successful. The women swept a meet for the first time in Caltech history as they beat Whittier 70-39, Christ 74-29, Masters 85-19, Chapman 85-5, and LaVerne was so nervous, they did not even field a team!

Now, when we speak of the women's track team, one person comes to mind, Liz Warner! She did it again, our supergirl helped set three Caltech records at this meet. She won the long jump with a 16'1/2" jump, the triple jump 31'9-1/4", and helped the 4x100 team run 58.4 seconds. All three are school records. The other three on that relay team were Emmeline Naranjo, Dee Morrison, and Golda Bernstein.

Another outstanding performer was freshman Jerri Martin. She ran a Caltech record 5:03 to win the 1500m. She placed first in the 800m in 2:32 and ran a leg of the 4x400m relay. Other performances included Dee with a 15.1 100m, a 27'4" shot put, and a winning discus throw of 87'7"; Kitt Hodson with a 31.6 200m and a 74.6 400m; Golda with a 31.8 200m and first place in the 400m in 70.4; Margi Pollack with a 12:24.9 3000m and a leg of the 4x400, and Emmeline with a 19.9 100m hurdles and 82.6 400m hurdles.

Now for the men. The outstanding male probably goes to Gary Eastvedt who placed first in

the high jump with a spectacular leap of 6'4", won the long jump with a 19'9" jump, and ran the 4x100m relay. Paul Socolow, back from the dead, ran a 61.6 to win the 400m hurdles, a leg of the 4x400, a 19.2 110m hurdles, and a 34'3" triple jump.

Other good performances were Tom Tetzlaff, winning the 200m in a time of 24.1 and a 11.6 100m; Ray Hu easily winning the 800m in 2:04.5 and an incredible 4x400 relay leg. He said it was because he had to go to the bathroom badly.

Other performances included Scott Kister's first place in the 3000m steeplechase in a time of 11:06 and a 17:18 5000m; John Raguin with a 55.2 400m, James Davila with a 55.3 400m; Dan

Kollmorgen with a 11.6 100m (in which he complained about being put in the wrong heat), Jeff Willis with a 4:36.8 1500m; Mike Mahon with a 4:36.9 1500m and 2:15.2 800m; Sheldon Lim's first place finish in the triple jump in 38'7"; Albert Ho with a 35'1" triple jump; and Randy Stevenson with a 11' pole vault.

The track team has a meet this Saturday at Pomona and then is at home the following weekend. Despite the winning start, the track team is still looking for more people, so if you think you are not good enough, think again! Come down and talk to coach O'Brien. I am sure he will talk you into coming out.

The Inside World

The Inside World was brought to you by:

- Dabney: David A. Edwards
- Fleming: Pierce Wetter
- Page: Gary Eastvedt
- Ricketts: Eric Candell
- Blacker: Mark Huie

Dabney

Well, the editors threw together a paper last week. Now let's see if they can master the typesetting machine enough to make my Inside World look as it's supposed to!

This weekend is the Desert Trip. Come out and see Mark Nelson in his natural habitat! Okay, so it's not his real natural habitat, since the full moon isn't until Monday. So they're only waxing lunacy, rather than full lunacy.

A hearty congratulations to Don Finnell for the Great Valentine Caper. (P.S. That means that I really **didn't** send you a valentine, Peyjen.) Since no one around here gets valentines from the ones we love, it's certainly nice to know that we get valentines from the ones we hate.

Will Pam Abshire stop at nothing in her shameless attempts to encourage people to convince people to participate in the Alumni Fund? Getting in the hot tub with Lyle, giving the shirt off her back to Trevor, I mean, what's next? I'm not exactly sure, but I'm certainly holding out until she's really desperate.

People who look in your transom when you're trying to write the Inside World are **really annoying!**

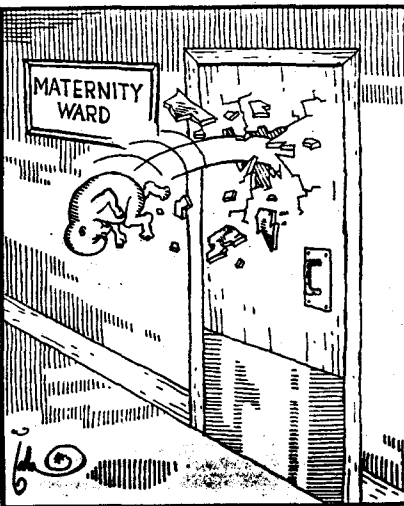
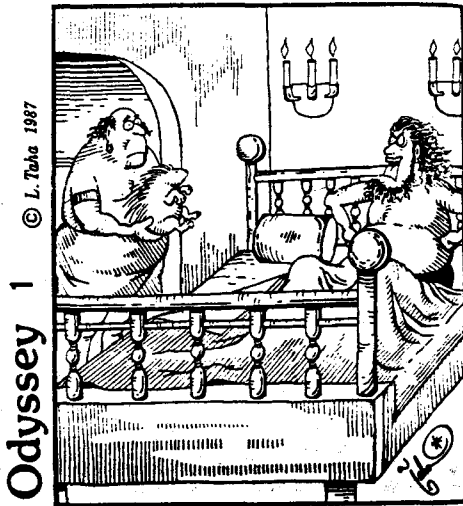
In honor of the feature of the same name in Spy magazine, I now present a list of people who are mistaken for one another all the time--not only for the way they look, but also for the way they act. These are the "be-alikes" in the:

"Separated at Birth"--The Caltech/Dabney House Edition

- Jon McGill and Shaggy from Scooby-Doo
- Elaine Lindelef and Jackie Holmes
- Stanley Chen (in his best clothes) and Tracy Fu (in his worst clothes)
- Brian Lemoff and Jeannie Barrett
- Alex Dukhovny and Burl Ives
- Dave Morton and a mild-mannered Charles Manson
- Michael Aschbacher and the mild-mannered Clark Kent
- Richard Sincovec and John Lennon
- Al Petterson and Ernest Borgnine
- David Politzer and Mr. Rogers (except Mr. Rogers doesn't say "What the Hell" in front of the kiddies)
- Robert Hanna and Danny DeVito
- Yair Zadik and Jeremy Gollub
- Chris Raymond and Tom Estermeier and Elmer Fudd
- David A. Edwards and Richard Simmons
- Don Finnell and Michael Landon
- Harold Zatz and an orangutan
- Dan Meiron and Hoss from Bonanza
- Golda Bernstein and Dolly Parton
- Michael Greenblatt and Kevin Nelson
- Chris Tully and Abraham Lincoln
- Carlos Salinas and Grizzly Adams
- Dave Stevens and Elvis Presley
- Ricardo Gomez and Speedy Gonzales
- Pam Abshire and Lucille Ball

--Santa Barbara

continued on page 4



Fool! I said bring me my concubine!

The birth of Euel Knievel.

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from page 3

Fleming

I got a call on Friday from Patty Pratt in the Housing Office. Seems the housing office wasn't too pleased with last week's inside world where I said the housing office doesn't do anything.

I admit it, I was wrong. The housing office loves you, and is here to make your stay at Caltech a little brighter. (Help! Pierce has been brainwashed by evil housing minions! Quick, get the de-cootieizer! Ok, zap him!) ZAP! There, that's better. I did learn a few useful facts while I was there. You know how the servotowels are only big enough to get one leg dry and the rest of your body slightly damp? You know how you can only get two of them? Well, Nancy Carlton said it was alright to go down to Javier and get some more. (Of course, I'd already done that several times, but since Housing had always said "two towels per student" I assumed that that meant we weren't supposed to have more than two towels. Now I realize that this means you can only have two towels for every student at Caltech, or about 1600 towels. Personally I think I can get along with about 7.)

The next thing I learned is that the MOSH's office is responsible for the evil plan to turn the south kitchens into LAX (i.e. the stove fans), so go and complain to Sue Hannaford if you don't like them. Personally, I could live with them if they were set on low instead of on full blast. Maybe Physical Plant could also replace the stove lights while they were at it, since no one ever checks to see if the light bulbs in the stoves are burned out.

I also found out that the Fire Alarms don't go off randomly anymore, they only go off there is a reason. Of course, my accounting of when the fire alarms

go off and the MOSH's office accounting of when they go off differs by about 2 fire alarms, which are probably the ones that they don't have a reason for. However, since they didn't go off this week so far, I'm not going to bitch about them.

I also found out that the vandalism fund is paid from two sources: The extra \$10 a term in house dues you pay, and matching funds from the institute. Now where does Caltech get the matching funds? Your tuition. That means that Caltech has effectively raised your house dues by \$20, without asking you. Now, lets do some math: \$10 times 800 students equals \$8000. Seven houses times \$1000 equals \$7000. Where does the extra \$1000 go? And since the institute is supposedly matching it, where does the extra \$9000 go? I wish someone would tell me so that I could embezzle it since its obviously not being used.

Things that Piss Me Off: Income Taxes, People who think starch is a food group, People who would rather LEND me money then LOAN me money, New Coke, the Psychic Bitch and Wesley on Star Trek: The Stupid Generation, People who stand outside my door and argue about who the best looking girl in the SI swimsuit issue is.

Top Ten Things the Housing Office does for YOU.

10. Wake you up at 8 in the morning by sliding a little "We're going to clean your room today" slip under your door.
9. Watch something gradually deteriorate until it finally breaks, then send work orders to Physical Plant to get it replaced.
8. Wait until the house president is in class, then make an damage inspection so that you can charge various things to "vandalism" which weren't really vandalism.
7. Send the house exhorbitant bills for things which happened six months ago.
6. Ask physical plant to change the lightbulbs in the hallways.
- 5.
- 4.
- 3.
- 2.
- 1.

New Motto for Caltech Security: Making Caltech Safe, For Science.

---MeanderFlem

continued on page 6

ASCIT Minutes

Present: Rich, Pam, Sam, Gaby, Dwight, Jason Curtis, Bappa, Mike Salisbury, Jerry Hauck, Marty, Gavin, Tony, Flynt, Huie, Steve Farris, Eastvedt, Carlos, Lyttle

10:35 2-14-89

Everyone tells Jeff to write a nasty letter to the Big T saying we want our money back. Jeff can figure it out, he's a lawyer.

Dwight's year in review: Jeff never had the minutes out on time.

Mike tells what ASCIT spent money on this year. Rich asks lots of questions, practicing for the job of president.

Warren wrote a letter for reimbursement for soccer banquet asking for \$60 since 30 people were there at \$2 apiece. Jeff says only about 14 people were there, even though he wasn't there. Dwight and Sam make rude comments about Warren and the general consensus is to send \$30 dollars and see if that appeases him. Dwight says he way overcharged for football also so they shouldn't give any this time.

Gavin says there is no California Tech business manager, so someone should sign up.

Gaby talks about the BOC year in review, most interesting cases, Unsolved Mysteries of the BOC, thinking about making a BOCumentary.

Discussion about the Big T. Bassem and the new Big T editors were putting the new dustcovers on yearbooks to be sent out. Shamu wasn't there. Gino came though and raised a fuss saying that he wanted to send out the yearbooks with the covers not on them so people could make up their mind. Bassem just kept putting on the covers since that was his job. Gino was sick of dealing of ASCIT and was going to the BOC and dropping out of ASCIT. BOD wants to kick him out before he can drop out.

Sam moves to kick Gino out of ASCIT and keep his dues in escrow. Marty seconds. The motion passes (4-1-2). Dwight wants to make sure the ASCIT movie people know so they will charge him a \$1.50 as a non-member.

Some board members move to fire Warren, but think that might be out of the control of the BOD.

Everyone thinks of stuff for Jason, the frosh director, to do. First of all, is the mandatory stupid poster.

Jeff gives Pam the last two weeks of minutes for her to get practice on.

Meeting ended. 11:05 2-14-89

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Bloom County by Berke Breathed

sports Basketball Bombs



by The Commissioner
The Caltech basketball team had a less than stellar week. After losing to the Occidental JV on Friday, 60-53, the Caltech Beavers went down to defeat Tuesday to the Claremont-Mudd JV, 69-56. The Beavers played well Friday but Oxy proved to much for the team, and Caltech could not catch up.

The star for Caltech on Friday was Jason Karceski. His long range bombs kept the Beavers in the game, and as usual provided steady guard play. He had 22 points, including four three-pointers. Bill Swanson was a force inside with fourteen points. The team executed well offensively, and the feeble Oxy press was no problem for Caltech, as the Beavers stayed close throughout the game. A few break downs in the second half, however, was just enough to give Oxy the victory. Other scorers were, Aram Kaloustian with 8, George Papa with 5, and Sean "The Hillman" Hillyard with 4.

On Tuesday, the Caltech Beavers fell victim to a three-point barrage at the hands of the Claremont-Mudd JV. The Stags(Claremont) had 42 of their 69 points on three-point field goals.

The fact that Caltech just did not seem ready to play in the first half did not help. Even the "Stags are fags" chant at Monday's practice did not help. Bill Swanson was the inside force again, even though he complained about having his butt cheeks pulled apart. He led Caltech with 17 points. George Papa was the outside force hitting numerous outside shots, including two three pointers, for a total of 14. Randy Ralph had one of his best games of the season and scored 8 points. Brad Scott also played well and scored 3. Jason Karceski played even though he was, and is still recovering from the flu. He had 6 points. Larry Ahle returned to action Tuesday after having missed Friday's games with tendonitis in his right knee. He scored 5 points. Other scorers were Aram Kaloustian with 2 and Sean Hillyard with 1.

This Friday the Caltech Beavers play the Pomona-Pitzer JV. Pomona is a good team and the Beavers will need all the athletic supporters they can get. So come out to the friendly confines of Scott Brown Gymnasium at 7:30pm and watch Beavers put their lives on the line. And since I have the chance, to Craig, Linda, and especially Jaye, Thanks.

Dwight Steals For Beer

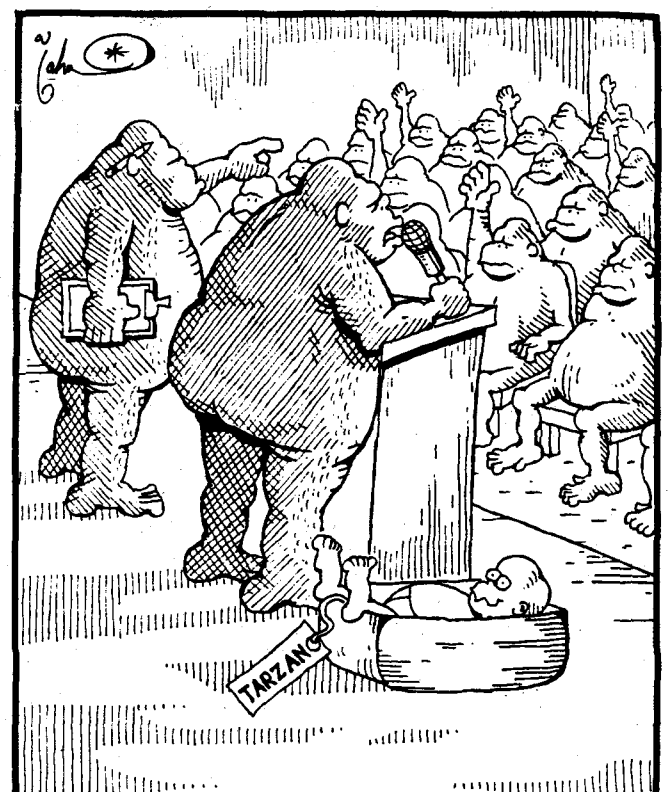
by Ari Kaplan
This past week the Caltech Beaver baseball team played three games; a double header against Menlo and also Pacific Coast Baptist Bible College. The first game against Menlo was a massacre as Caltech's sluggers demolished their pitchers. Dwight Berg, hitting .412, and Rob Grothe, hitting .350, helped lead the team to an 11-4 victory.

The second game against Menlo was well-played by both teams. Through the first few innings both teams were held scoreless, but eventually Caltech fell behind 4-1. With two outs and bases loaded, Dwight Berg stepped up to the plate and blasted a rocket that ended up as a triple, tying the score at 4. Dwight glanced at the coach for the sign and then looked into the dugout. As soon as he saw the team passing around the keg of beer, Berg ran right in, stealing home in

the process. After these fireworks, however, Caltech was unable to maintain their lead and lost in the last inning, 7-5.

Last week, Caltech lost to PCBBC in a game the team had expected to win. After this tough loss, Tech was psyched to win the rematch. However, an ump from hell, who wore stilts, called any ball lower than the top of the back-stop a strike. As a result, CIT's sluggers were unable to hit PCBBC's weak pitchers. For some reason the traditional Tech team spirit was gone, and Caltech lost 7-4. As Jimbob put it, "The Lord is my shepherd, and I hope he's not a Flem!"

The Caltech baseball team's record is now at 2 wins and 4 losses. Come cheer the team on at their next home game, a doubleheader against LaVerne, Saturday at 11:00 A.M.



... Okay, all in favor of raising him, raise your hand. Alright, now those in favor of eating him raise your hand.

from page 4
Page

Unexplained Questions That Haunt Page House:

- Why does Jimbob hate women?
- What does Keana think about when she's alone?
- Why does Fish set his 200 dB alarm for 9am and then hit SNOOZE 13 times before getting up at 2pm?
- Does Mike Nassir know that his French-speaking expertise on everything isn't impressive?
- Is Gary's consistent proclamation of his food being "better than pussy" reflect any sexual experience with cats?
- Why are Dave Emerson's compucrud announcements so entertaining?
- What provokes Dean to grow or shave his beard?
- When will Chris Hassler figure out that he's graduated and leave the computer room?
- Why does Bappa set himself on fire late at night and run around screaming, "I'm burning in Hell!"?
- When did Bochner get a personality and who sold it to him?
- Why does Jimbob hate women?
- Who started the tradition/legend of not cleaning the kitchen in hopes that someday the creature that emerges from the sludge will clean up after itself?
- What happened to Linda (and do we care)?
- What would Mark Fey do if he had a date?
- Why is everything a moral imperative to Jim Rogers?
- Are Mike Ehlers and Aaron Hawkins actually the same person? How about Phil Fernandez and Jonathan Pakianathan?
- Why is Page House most active at 2am?
- Does Fred realize that he was born in the wrong millennium? (Hey, Fred, Conan is dead!)
- Why doesn't Jennifer Low run naked up and down the halls anymore?
- Why does Jimbob hate women?

House relationships update:

Eric was here, now he's not. Kate was happy, now she's not. Personally, I'm glad he's gone. Having to endure the high pitch squeals emanating through the walls knowing that Eric, Kate, and Jim were in the room was a bit much to ask.

Does anyone remember *The Little Rascals*?

Liz: "Eric, will you swing me before we have lunch?"
Eric: "Sure, Liz."
Jimbob: "Say, Romeo, what about your promise to the He-Man-Women-Haters Club?"
Eric: "I'm sorry, Jimbob, I have to live my own life."

Regardless, the He-Man-Women-Haters Club will be publically stoning select female demons (names are being withheld to increase suspense) tomorrow at the Court of Mann. Admission is 25 cents; those wishing to participate must bring their own projectiles.

One last thing:

We were kind of sitting around the house debating over what would benefit the house more: winning Interhouse or controlling ASCIT. We carefully weighed the pros and cons noting that with Interhouse we could run around and be as obnoxious as we like while with ASCIT we could directly affect the lives of each Techtype. We were at a standstill. Then Junko walked in, screamed "Daniels is a fag!" and poured a beer on her head. The choice was clear. We'll be as obnoxious as we like whenever we like. So, Flames, enjoy the piece of metal -- Page House is getting a Porche.

The waiters have no nuts.

-- Dirty White Boy

Ricketts

After a year of shroom-cactus-hate magnet-madness, our president, Tom, decided he'd had enough. It was time for our leader to emerge from the cloak of insanity that had surrounded him for so long - It was time for self-atonement. Instead of the traditional solitary consumption ritual, Cactus Tom showed us not only his legs, but a new vision of shamanism: a performance entitled "Liquids: Self-purification and societal affirmation through liberal application of diverse fluids." After speaking in tongues for a short period, Tom pronounced the First Holy Phrase, "This is Morning," and doused himself in lemonade. The other two Holy Phrases, "This is Evening," and "This is Eternity," followed with their corresponding fluids, coke and water. He yelled, "Dinner's over!" in a strangely enlightened voice and the ceremony was complete.



Cactus Tom Tromeay in the pre-atonement era: Notice Boar Semen hat and dilated pupils.

House o' da Month:

Announcements: If anyone's seen a blue mechanical pencil...
Events: Well, okay, I was wrong. The Decorate Your Own Valentine Bag Party and Debauchery was not at 3:30 last Saturday, the social team overrode me there (I wish they'd tell me these things earlier). Oh well, three thirty in the afternoon is a bit too early to debauch anyway. I must say, 9:00 is a much better time to be in a drunken stupor- it certainly was pleasant debauching nonetheless.

News o' da month:
Not that anyone noticed the difference, but: No, Tim was not trying to grow a mustache, he just forgot to shave. Either that or he finally got sick of Tracey and Irene always trying to touch his upper lip.

Yet again, "Happy Birthday, Irene."
No more bikes have been stolen from Ho'M this week, though Tim is still trying to get rid of his. Maybe if we didn't have obviously deranged maniacs waving a bone around...

This place actually looks better without the bush out in front, and now that we have new sprinklers, maybe we'll even have a lawn. Of course, if this goes too far, somebody's going to get killed chasing a soccer ball into the street. Either that or someone's going to realize there's a house there and rob it.

Gripe o' da Month:
Talking about our landscaping, I figured what makes Ho'M so ugly. It's the trees. We have one big pine tree, a few regular trees, some bushes and ivy. Everything would be better if we didn't have that pine tree. Are pine trees supposed to lose their leaves (or what passes for leaves on those things)? I don't know, but this tree does. It drops pine needles, pine cones, branches and all sorts of debris. This would be okay if all that stuff actually hit the ground, but it doesn't. It falls into the trees underneath and stays there and dies.

Okay, the stuff is dead even before it falls, but it just collects and collects over the years and decomposes. It's amazing that there's anything alive under the pine tree. I decided to try to clean out the trees, in every nook there was six to twelve inches of junk: pine needles, cones and dirt. I cleaned as much as I could until the branches were too high. The moral of this story (if anybody from housing is reading this) is: The ugly bush in front of the house was put there to hide the ugly trees, so now that you've stolen the ugly bush, you've got to clean up the trees. (really, I'm sure there's a moral in there somewhere...)

Huff, puff, okay I'm done ranting an raving.
I don't know what's going on in that funny house that's affiliated to House o' da Month since I never show up to announcements. I do know there's the Sue and Julie party in Dabney Gardens, you know I'll be there even if I have to bring my own zoo juice.

Flash! Late breaking news! Straight from Hoyt's mouth (albeit a few hours old): Scavenger hunt this Saturday at 1:00. Meet in the lounge. After that is a barbecue at House Bonsai (Bauhaus?), then Sue and Julie's party.
There's no need for a top ten this week, so top ten this, baby.

--Mark "Used bikes purchased here" Huie

sports

Beavers Paddle

by Al Fansome

Saturday morning; the Caltech swim team showed up at the pool ready to kick some butt. The swim meet was to be a triad with Cal State San Bernardino and PCC, but it was not to be for the these two teams had chickened out sometime during the previous night. In Boyd Bangerter's words, "It was a mixture of joy and disappointment" as the team sat in the locker room waiting for Coach Clint Dodd's word. Clint had called Occidental to see if the Caltech team could swim against them once again, but they said no. Clint needed an opponent and he needed one bad.

The team ended up swimming against the lifeguard, Keith. He put up a valiant effort, but Caltech triumphed in the end. The meet began with long distance diving from the one meter board. Boyd Bangerter won the event convincingly, only challenged by Grant Sitton, who pulled off a personal best to edge David Geraghty for second. Disappointingly, Brian Shim was disqualified, but provided the excuse: "I just couldn't do it without the babes there to cheer me on."

Next came the swimming events. Everyone swam their "off" events, so the times were pretty sad and not worth mentioning. The end of the meet climaxed with a hotly contested "kickball" relay. The team captains, Clint and Dugan, picked their teams and the relay began with each member swimming a 50 free. Dugan's team pulled out to an early lead and held it for most of the race. The final leg came down to Clint versus Karin Johnson. Karin had the lead, but Clint's buoyancy propelled him to the lead. Dugan, not appreciating this turn of events for his team, took matters into his own hands and did a cannonball on Clint's head. As Clint licked his wounds, Karin coasted in unscathed for victory.

Oh yeah, no swimming article is complete without mentioning that Brian Hayes was awesome. Come out and support the swim team in their biggest meet of the year, the SCIAAC championships, this Friday, Saturday, and Sunday at Cerritos and check out the babes from all the other SCIAAC schools.

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The program provides student with \$1,000 plus travel allowance, room, and board. The application receipt date is February 28, 1989. Selections will be made and applicants notified in late March.

For further information and application forms contact the Training and Education Office, The Jackson Laboratory, 600 Main St., Bar Harbor, Maine 04609.

Darwin's Home Town

Celebrating the birth of Charles Darwin (Feb. 12, 1809), the Humanist Society of Friends will present Lucille Lee Roberts, photographer and artist, offering her slide-show/lecture on "Darwin and Darwin's England." Following the trail of Darwin's family life from his birthplace and boyhood home, to his courtship and marriage to Emma Wedgwood, to the founding of their family home at Down House in Kent, Ms. Roberts captures the flavor, scenery and history of Darwin and Darwin's England. The presentation will be at Mercury Savings and Loan, 6245 Wilshire Blvd. in Los Angeles, on Thursday, Feb. 23, 7:30 pm. Admission free.

New Music Course

MUS1 is new to Caltech so be the first on your block to take this neat class. This course will explore the music and related performance traditions found in China (including tribal minorities), Mongolia, Japan and Korea. Ancient sources on music in China will be discussed, the forms of Chinese opera, chamber music, and modern developments during and after the Cultural Revolution. A wide variety of traditional Japanese forms (Noh, Kabuki, Bunraku, Gagaku, and Sankyoku) and contemporary Japanese art music, as well as modern popular forms (Shigin), and the uses of music in Japanese Buddhist ritual, Tibetan Buddhist ritual music and dance, opera, and folk forms will be explored. Guest artists and films. No music background required. If there are any questions please call Prof. Catlin at (818) 785-1498.

Scientific Revolution

Dr. Judith Goodstein, the Institute's archivist, will teach H 161 in the Spring term. The course—Selected Topics in History: The Renaissance, The Reformation and the Scientific Revolution—is offered for advanced Humanities credit and offers a historical sense of the events surrounding the first scientific revolution. The origins of modern science will be examined against the social, religious, and philosophical background in Europe between the invention of printing and the publication of Newton's *Principia*.

Model U.N. in Seattle

This year's Model UN conference will be held in Seattle in April. Anybody who plans on attending should be at the organizational meeting today in room 15 of the South House basement at 5:30. If you can't attend the organizational meeting, please contact Erik Krumrey at 449-2198 before Monday.

S.P.E.C.T.R.E. Is Watching You

Monty Python vs. The Prisoner in 1984: IT CAN ONLY MEAN ONE THING!!! They mean to win Wimbledon! E.R.T.C.E.P.S., the Caltech Science Fiction Club and Flea Market, will be meeting on Wed., 22 Feb. 89 at 7:30 pm in CLubroom B/Rm. 15 of the Strategic Air Command. Presentations will include Monty Python's "Science Fiction Sketch," 1984 (1984 version), and Epsode 9 of the Prisoner: "Dance of the Dead." Mark Looper is having some warts removed [for more information BUG MARK LOOPER at 304-0006] so he may be unable to attend. Thus, I have graciously accepted his request to become Whale pro-tem and will dominate the meeting. So come, come, come!!

By the way, frosh: Many of you have asked me what S.P.E.C.T.R.E. stands for. Once and for all, IT DOESN'T STAND FOR ANYTHING!! It is, however, an anagram of G.O.A.W.A.Y.U. which is obviously an acronym of "Stupid Frosh Have No Business Asking Me Anything."

Contest Winner!

Congratulations go out to Rick Berge for his submission of the chosen name for Pat Robb's new catering business... "Confection Connection." Thanks to all who submitted entries at the Coffeehouse.

Drop Day

Wednesday, February 22, 1989 is the last day for dropping courses and changing sections.

New Humanities Courses

Modern Chinese and Japanese literature in translation courses will be offered by Professor Sarah Chen spring term.

Lit 180: Modern Chinese Literature, will be a survey of modern Chinese fiction from the vernacular language movement in 1917 to contemporary works of exiles at home and abroad, and will be taught TTh 10:30-12:00.

Lit 180: Modern Japanese Literature will be an introduction to the major modern writers of Japanese fiction such as Soseki, Tanizaki, Michima, and Kawabata and will be offered TTh 8:30-10:00. Sign up in the registrar's office.

H 161: Topics in History—American Aviation: Images and Realities. This multimedia, interdisciplinary course, taught by Professor Rosenstone, will utilize a variety of visual and written texts to explore some of the major issues and personalities in the history of American aviation. Members of the class will attend five Monday evening screenings (which are part of the Caltech Film Program) of classic American feature films about aviation and aviators, and six Tuesday afternoon sessions in which discussions of written materials will be led by the instructor and by various visitors, including Fred Culick, Caltech professor of Aeronautics.

Screenings will take place at 7:30 in Baxter Lecture Hall on April 3, 17, May 1, 15 and 22. Afternoon class meetings are on: April 4, 11, 25, May 9, 23 and 30.

Carnegie Summer Bio Program

The Department of Biological Sciences of Carnegie Mellon University is offering a summer undergraduate research program in '89. The program is designed for college students who are interested in research careers in the biological and biomedical sciences and who aspire to attain a Ph.D. Students who have completed their junior year and who have strong academic records in the sciences will be given preference. Prior research experience is helpful but not mandatory.

Students selected into the program will receive a stipend of \$2400 and will spend 10 weeks working with a faculty member in one of the Carnegie Mellon laboratories.

An application and a complete description of the program, including a list of the sponsored projects and participating faculty, can be obtained by writing to: Dr. Eric Grotzinger, Department of Biological Sciences, Carnegie Mellon University, 4400 Fifth Ave., Pittsburgh, PA 15213.

Japanese Classic Film

In conjunction with H/Hum 131 "History on Film: Japan," Yasujiro Ozu's *Tokyo Story* will be screened on Monday, February 20th at 7:30 pm in the Baxter Lecture Hall.

Considered one of the three best Japanese films ever made (the other two are Kurosawa's *The Seven Samurai* and Mitsuuchi's *Ugetsu*), the film tells a deceptively simple tale of an elderly couple who journey to Tokyo, where they are received less than enthusiastically by their grown-up children: then generational conflicts are stilled—momentarily—by death. Ozu's unique style—a subtle interplay of rhythm, detail and restraint—has become legendary in this quietly overpowering masterpiece.

The film is English subtitled. There will be no admission charge.

Cinematech's Ozu Too!

This week's Cinematech movie will feature Yasujiro Ozu's *Early Summer*. In his tradition of family drama, Ozu (director of *Tokyo Story*) brings forth an intense yet often humorous observation of the stress of marriage that affects the family. The plot centers around four former girl-school friends and their family. But, characteristic of the style that made a master of traditional Japanese cinema, the emphasis here is not so much on the plot as is on the fine-tuned characterization, moods, and observation.

The film will be shown on Saturday, February 18th at 7 and 10 pm in Baxter Lecture Hall. Admission is \$1.50 for all.

Gay & Lesbian Discussion Group

An ongoing discussion group on Gay/Lesbian topics is held on the 1st and 3rd Tuesday of every month from 7:30-9:30 pm at the Archibald Young Health Center. All members of the Caltech community are welcome. Refreshments are provided. For further information please contact Bruce Kahl, x8331.

Public Health History

H 156, which will deal with topics in the history of contagious disease and public health in the U.S. since the late 19th century, will be taught in the Spring term by Prof. Daniel Kevles and Barbara Rosenkrantz, professor of the history of science at Harvard. The course will focus on water-borne, parasitical, and venereal diseases, paying special attention to the interplay of social and scientific constructions of their origins, controls, and treatments.

Research Semester

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

Career Development Tidbits

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

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

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

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

SURF's Up!

1989 SURF applications are available in the SURF Office, Room 3 Dabney. This year's applications have been revised, and students should pick up an application before they go to interview faculty. The first sheet of the application is a Vita Sheet. Students should complete the Vita Sheet and give it to any potential sponsors when they first meet.

The new SURF handbook is also available in the SURF office.

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what goes on

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

Coffeehouse Hours

Coffeehouse hours are 8 pm-1 am, M-F and 12 noon-2 pm, 7 pm-1 am, Sat-Sun. If you have an idea for a special event, see Head Manager Barry Lind or Nancy Matthews, SAC. Also, those interested in waiting at the Coffeehouse should see Barry.

Bye Bye Birdie

TACIT presents the annual Caltech/JPL musical, *Bye Bye Birdie*. See your friends act, dance and sing in this rollicking 50's spoof. Ramo Auditorium, February 17, 18, 24, 25 at 8 pm and February 19 and 26 at 2 pm. Tickets available at the Caltech Ticket Office or at the door.

Academic Recess

Monday, February 27th is an academic holiday for Caltech students. No classes will be held on that day, but the Institute will remain open.

The Red Door Café

We now have evening hours on Monday-Thursday, 7:00-10:00 pm. Stop by for cappuccino, 12 kinds of fruit juices, and home baking by Pat Robb! We're also open Monday-Friday, 2:30-5:30 pm.

Big T Dustcovers Are Here

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

Off-Campus Room Lottery

If you haven't received your off-campus room lottery information packet by Monday the 20th please pick one up from the MOSH office.

Admissions Work

The Admissions Office seeks to hire a student to help co-ordinate the Pre-Frosh Open House Weekend, to be held April 13-16. We estimate you'll put in about 8-10 hours per week. If you're interested, call Marcy Whaley, 356-6341.

CLASSIFIED ADS

FOR RENT -

MAZATLAN, BI-LEVEL CONDO on best beach. Sleeps six, pool, kitchenette, two bedrooms, maid services, purified water. Available 3/19-26/89. \$600. call (415) 255-9467 or (415) 331-1376 evenings.

HELP WANTED -

MICROAGE/PASADENA is looking for sales people. Knowledge of PCs and software required. Draw against commission. (818) 449-2884. Mon-Fri. 10-5. EOE.

TUTORS NEEDED! Individuals with high SAT scores are perfect for the job. High pay, flexible hours, materials given. Act now, call EXCEL-ED (818) 458-1068 for May.

POST-DOCTORAL opportunity for chemist, physicist, engineer, or physical biologist: a challenging opportunity to study the molecular basis of visual disorders using crystallography, NMR, MRI, and/or light scattering. Send C.V. and references to: Maria Couragen, Dept. of Biostructure, SM-20, Univ. of Washington, Seattle WA 98195.

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FREEBIES -

NON-WORKING TELEVISION SETS, one color, one b&w. Call x6154 after Feb. 21.

RATES.....\$3.00 for first 25 words; .10c for each additional word. Send written ad with payment to 40-58. Deadline is 6 p.m., Monday before issue. No charge for on-campus lost & found.

Free AIDS Speakers Available

At no charge, members of the American Red Cross AIDS Speakers Bureau will come to speak to groups of six people or more and present the facts about Acquired Immune Deficiency Syndrome - AIDS.

The presentations stress the methods of transmission and prevention of the disease, and include a video as well as a question and answer period. For information, please call the Pasadena chapter of the American Red Cross at (818) 799-0841.

More Scholarships for Gals

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

Red Cross Disaster Training

Red Cross Disaster Services volunteers are trained and ready to respond to assist the victims of any man-made or natural disaster every day of the year. Emergency food, shelter, medical attention, and other assistance is provided to disaster victims in order that they regain self-sufficiency as quickly as possible.

Citizens interested in helping their friends and neighbors may volunteer for American Red Cross and sign up for free Disaster Services training courses and workshops on various facets of disaster work.

Call the Pasadena Chapter at (818) 799-0841 for information.

Social Security Booklet

Social Security? Many people only know half the story. Get the whole story from the free booklet, "Social Security. How It Works For You." Call toll-free 1-800-937-2000 to request the booklet.

Women's Trip To Scandinavia

San Jose State University is sponsoring a travel program to Scandinavia in June and July 1989, focusing on women's issues. There will be seminars on international networking, women's organizations, and the history of women in each country visited, as well as a chance to meet local feminists. The tour, led by Dr. Margaret (Meg) Bowman, noted feminist author and a member of the sociology department at SJSU, departs the U.S. on 27 June, and will include Norway, Sweden, Denmark, and Holland, returning 15 July. For further information, write: Travel Programs, Office of Continuing Education, San Jose State University, San Jose, CA 95192-0135.

SAC Has Big T's

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

Join A Computer Club

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

Free Flying

Did you ever want to learn how to fly but weren't quite sure what was involved? The Caltech/JPL Flying Club has a limited amount of funding (courtesy of the GSC) for the purposes of giving free demo rides to graduate students who are considering taking flying lessons. During this short (45 minute) flight you will fly over Caltech and other nearby areas. You will also see first hand what is involved in piloting a small aircraft. For more information contact Jim Kaufman, 264-33, x3807.

MacValley Users Group

The next MacValley Users Group meeting will be Feb. 21 at 7:30 pm in the cafeteria of Burbank High School, at Burbank and Third in Burbank. Intuit will present Quick-c, a personal finance management program. For further information, call David Lagerson, (818) 998-5546.

Making Money Out Of Ideas

On Tuesday, Feb. 21, Brad Sorensen, the designer of the RX-7, will be speaking at the Athenaeum. The program begins with a dinner at 6 pm. This is the second in a series of presentations on entrepreneurship, sponsored by the Caltech Y and AMETEK Corporation. The dinner is free for Caltech students. Sign up in the Y soon, as space will be limited, or RSVP at x6163.

Work Overseas

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

Women Student Leaders

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

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Scholarships On Parade

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

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

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

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

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

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

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

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

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

Y Book Exchange

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

Play With Money

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

Pre-Medical Conference

U.S.C. Medical School will be hosting a pre-med conference, Saturday, February 18, from 9 am to 5 pm (lunch included). If you are a pre-med student and have not signed up, call the Health Center at x6393 today by 4 pm. Or, if you prefer, you may register at the door—come by the Health Center to pick up directions.

Yet Another Totem Poll for Art

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

The Muppets Take Caltech

Do you have a talent for drawing?... painting?... making puppets? Well, have we got a competition for you! Jim Henson's (yeah, the Muppet Man!) *Character Design Competition* can actually win you BIG BUCKS! Your assignment is to create "a two-character team of any nature or creature type." Lotsa leeway, huh? The "jury" will be looking for originality of concept and quality of execution—but the actual style of the characters is up to you! The presentation can be in any medium: slides, 2D or 3D, puppets, videos, software—but no "live" performances! The deadline for all entries is 24 February 1989, so start concocting some goodies now. Only entries from full-time undergraduates and graduates will be accepted. The deadline for receiving the artwork at Jim Henson Productions is 1 March 1989.

Now for the important part: First Prize—\$1000; Second Prize—\$800; Third Prize—\$600; Fourth Prize—\$500; and Fifth Prize—\$400. To receive an entry blank, call Will Morrison at Jim Henson Productions, (212) 744-5207.

Rotary Foundation Scholarships

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

E.T. Bell Competition

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

Morgan Ward Prize

The Morgan Ward prize is open to all Caltech freshmen and sophomores. Entries should consist of a problem and a solution or significant progress towards a solution. Entries may be submitted by an individual or a group of students, and each student is limited to no more than three entries. All entries are due the fourth week of third term.

Student Film Awards

NISSAN is sponsoring the Thirteenth Annual Student Film Awards. Awards range from \$4,500 in Narrative, Documentary, Animated/Experimental Films to smaller awards for other film related topics. Competition deadline is April 28, 1989. Get a complete set of rules from the Humanities Department or at rooms 38 and 64 of the SAC. Otherwise, write to: FOCUS, 10 E. 34th St., New York, NY 10016; or phone (212) 779-0404.

A Study In Stealth

Ae107c (Case Studies in Engineering) will present the story of the first production stealth aircraft, the Lockheed SR-71 Blackbird, engineered by Kelly Johnson's famous "Skunk Works" at Lockheed Aircraft Co. Topics include: Program Management and Production, Design, Materials, Aerodynamics, Stability and Control, Structures, Thermo and Environmental Systems, Hydraulics and Fuel Systems, Propulsion System and Integration, Flight Tests. Held on Mondays, 4-5 pm and Wednesdays, 3-5 pm in 269 LAU. For info call TA: R. Bonazza, x4457.

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