



Ghost of Villani Past

The California Tech

Generations:
Villani Present

Volume XCVI, Number 10

Pasadena, California

Friday, December 2, 1994

Do Undergrads Have a Say About The Core?

from the IHC

An increasingly common lament among Caltech undergraduates is that what influence on important policy decisions we have enjoyed in the past is eroding. More and more routinely decisions are made without any significant opportunity for undergraduates to take part in the process. One of the most alarming examples of this is in the proposing of changes to the core curriculum.

It is particularly striking that students should have such little influence with regards to this issue for the very reason that much effort has been put into obtaining student opinion. Two years ago, members of the Academic Policy Student-Faculty Committee spent two to three hours in

each of the seven undergraduate houses discussing what changes the students desired. Opinions were recorded and summarized in a list of problem areas and proposed improvements. All in all, hundreds of man hours were invested. This was one of the largest, most organized effort on behalf of the students in recent memory.

However, once this undertaking was completed, a new committee was created, the Core Curriculum Task Force, which took over the duty of proposing changes to curriculum policy. Since the creation of the Task Force, the Academic Policies committee has not met because it was decided that two committees with possibly conflicting voices would be un-

SEE CORE, PAGE 9

Steele House Update

by Chris Bryant

The situation regarding Steele House and the transfer of the Master of Student Houses (MOSH) away from it is one that is of concern to many students, faculty members, and administrators. Currently the ASCIT Board of Directors are communicating with Gary Lorden (Vice-President of Student Affairs) and David Goodstein (Vice-Provost) about Steele House and what if anything may be done about the plans to move the MOSH. These discussions are results of a letter written to the Institute Administrative Council by Stanley Grant (IHC Chair), Jon McDunn (ASCIT President), and Chris Bryant (Board of Control Chair) and President Everhart's subsequent decision to place a temporary hold on the MOSH's transfer plans.

In talking to Dr. Lorden and Dr. Goodstein, ASCIT was asked to relay to the student body as well as other interested parties the reason for the decision to move the MOSH out of Steele house and replace him with the Office of Technology Transfer

SEE SHOULD, PAGE 3

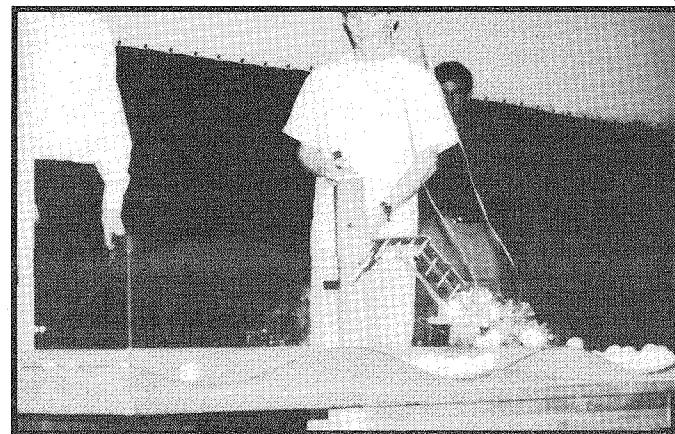


PHOTO BY STEPHEN VAN HOOSER

Craig Tibbets demonstrates "the Claw" as it greedily devours golf balls at yesterday's contest.

The Triumphant Return of the ME Design Contest

originally by Zack Berger

After a year's hiatus, when Professor Erik Antonsson was on Sabbatical leave, the tenth annual Caltech Engineering Design Contest was held on Thursday December 1, 1994 from 2 P.M. to 3:15 P.M. in Beckman Auditorium. Justin Warner, a senior from Fleming, won the competition, defeating Craig Tibbets from Ruddock in the final rounds of the double elimination tournament.

Engineering is primarily the process of creating new things to solve problems. This course, and contest, is one attempt to provide students with a real-world opportunity to learn about the design of new things, and the solution of open-ended, ill-defined problems.

There is an attempt each year to provide a real-world engineering atmosphere. There is a limited amount of time. The hardware resources are limited. There are competing requirements and constraints, and overall strategy is a crucial initial decision. Every effort is made to make the contest scrupulously fair; all students have exactly the same raw materials and time, and access to tools and machine tools. The only variability is the student's learning, talent, and expertise. Many lessons come out of the class including: management and planning of time in the design cycle; decision-making in an uncertain environment; the benefits of prototyping and testing; the benefits of modular easy-to-repair designs; the interaction between design and manufacture; and an experience with open-ended problem solving.

ME 72 students are given a bag of junk and ten weeks in which to construct from it a device that accomplishes an assigned task. A typi-

cal year's "junk" includes: masonite, Plexiglas, aluminum, a few ball bearings, a length of shafting, some brass bearings, a few pulleys and rollers, and other miscellaneous surplus "junk" that can be found in sufficient quantity. Before the annual Schlumberger contribution (beginning in 1987), the power source supplied to students was rubber bands. Since that time two (or more) electric motors each were usually provided. Donations from industrial sponsors (Hewlett Packard, Schlumberger, ITT, GM) have enabled the department to provide each student with high quality "junk." The display case in the middle of the first floor of the Thomas building includes several students' devices from the previous contest, the trophy, and a display of the contents of the "bag of junk."

The assignment changes from year to year. Three years ago, the contest featured electromechanical sumo wrestlers; the 1992 competition pitted devices against each other in the collection of plastic pellets. Last year, in a change of emphasis, the students designed portable electric carts for the elderly.

In Thursday's contest, student-designed machines collected golf balls from a central trough. Speed mattered, but was not paramount—because two type of colored golf balls in the pile complicated the situation. Each red ball was worth twenty-five of its white friends; each black ball counted for -30 points. A fast machine could not win without dexterous handling by its operator, collecting the right balls and avoiding pitfalls.

Therefore many strategies were possible. The four machines which advanced to the seventh and final round (the tournament was double-

SEE ME 72 CONTEST, PAGE 6

Drug and Alcohol Survey Distributed on Campus

by Rebekah Mills

Recently, randomly chosen samples of undergraduates at five Pasadena colleges received a 39-question, four-page survey about alcohol and drugs. This was a first for Caltech, which has never had a survey on drug and alcohol use. In mid-

SEE SURVEY, PAGE 11

CSS Space News

by Ross Brown

Hello and welcome to the last edition of CSS Space News for this term. This week I will cover items through to the beginning of next term because of the holiday break. I hope you all have an enjoyable break!

Satellite Book of World Records

The satellite that has enjoyed the greatest longevity is the OSCAR-13 navigation satellite. The Navy Navigation TRANSIT program ran the satellite as part of a network. O-13 was designed, built and launched by the Applied Physics Laboratory at Johns Hopkins University.

After being launched in May of 1967, the hardy little spacecraft stayed in continuous operation in orbit for 21.7 years. Another satellite in the same program is due to surpass this mark if it survives for another 6 months. Battery failure finally claimed O-13, rounding the average life span of this series of spacecraft 14 years.

Happy Anniversary

30 Years ago November 28th, 1964: Mariner 4 Mars flyby mission launched

20 Years ago December 3rd, 1974: Pioneer 11 Jupiter flyby

10 Years ago December 15th, 1984: Vega 1 is launched towards Halley's Comet (remember that?)

SEE SPACE, PAGE 7

ATTENTION
graduating seniors and
graduate students:
you have received or will be re-
ceiving in the mail shortly a com-
mencement speaker survey.
Please fill it out and return by
Wednesday, December 7.

In
This
Issue

The
Usual
Stuff

CSS SPACE NEWS	1
IHC MINUTES	2
MEDIA GUY	2
EDITOR'S CORNER	2
GAMES & PUZZLES	4
BRIDGE WITHOUT SAM	4
SOCIAL COMMENTARY	5
KREATIVE KORNER	6
SPORTS	7
COMICS	10
EVENTS & NOTICES	12
INSIDE WORLD	YES

IHC MINUTES 11/30

10:30 P.M. SAC room 64

Present: Mikey Ng (Pa), Stanley Grant (chair), Dennis Ugolini (Ru), Kevin Boyce (Ri), James Honaker (Bl), Mike Debar (Ll), William Cesarotti (Da), John White (Fl), Laura Verhoff, David Derkits, Stephanie Haussmann

Anti-Disco:

Starting around 3rd term last year the idea was brought up to change Discobolus to make it more fun and competitive for all seven houses. Dennis's suggestion was to change the rules so that a major sport was no longer a requirement in the challenge. Thus, the challenging house could list any three sports that were on the approved list, major or minors. Another suggestion was to leave Disco alone and add a third trophy that would be more free-form. One vision for it was that it would more like alley challenges between the houses so people could compete in different events that may or may not require any athletic skill. There is support for both ideas. Some feel that they should be discussed separately. James points out that if Disco needs to be improved then that should be done, but that does not rule out the third trophy idea. Cesar, Kevin, Mikey, and Stan agree. Mike does not want to change Disco, but really likes the third trophy idea. Laura (ASCIT ath man) also feels that Disco should not change, but is willing to work on proposals for a third trophy with the athletic committee.

Stan asks for a vote on the proposed rule change of eliminating the requirement of having at least one major sport on the challenge list.

Change passes 5-2.

It is discussed whether or not such a change should take place next term or next school year. Some people feel that the change should definitely not happen mid-stream since the challenge cycle has already started and some people might be disadvantaged. Others feel that if it's going to improve the competition and maybe make it more fun why not start it as soon as possible.

Stan asks for a vote on implementing the rule change at the start of next year.

Motion passes 4-3.

Stan asks for vote on starting a third trophy competition for which the rules have yet to be determined, but would allow non-traditional, alley-challenge style events.

Third trophy passes 6-1.

Reffing of Interhouse athletics:

Last week Ruddock and Lloyd voiced concerns that they would like to see some changes in the reffing assignments for interhouse sports. Lloyd was upset because they had a Dabney ref for each of their soccer matches against Fleming, Page, and Ruddock. Laura comments that she sent out a letter to all the houses' Ath men telling them who to contact if they needed help reffing a game because they were unfamiliar with the rules. It was mentioned that Fleming, Page, and Ruddock only have refs from the third house when playing each other. It is suggested that Lloyd be added to this closed loop list.

Steele House:

Plans for moving the MOSH out of Steele house and into a house across Hill St. from the Ath are still on hold, but Stan feels that he is running out of ideas on how to get the move permanently stopped. Steele House is slated to become the new Technology Transfer Office aimed at getting money from Corporate sponsors to support Caltech. The IHC along with ASCIT has been working to stop this move. Letters have been written to President Everhart and the Committee members that will be making the final decision. In discussion with the MOSH on what to try next it was suggested that students put together a petition requesting an alternative plan or writing personal statements to President Everhart on why Steele House should remain the MOSH's house. It is decided that Stan will write a petition and the President's will announce at dinner that interested students should sign it.

Admissions Video:

Charlene Liebau, the new Director of Admissions as said that the AV department wants to make a propaganda video for the Admissions office free of charge (they usually run around \$60,000). She has asked Stan for input as to what should be shown in the video and how best to represent academic and social life on campus. If anyone has any suggestions they should be mentioned to Stan, a house president, or Charlene Liebau in the admissions office.

Minutes Submitted,

Alison Slemp

IHC secretary

ADAM VILLANI: MEDIA GUY



Adam Villani

Star Trek: Generations

I'm not a Trekkie, but I do enjoy watching *Star Trek* once or twice a season. When the writing is good, *Star Trek* can be science fiction at its best, with complex stories that intrigue us and reflect on our present-day society. But *Star Trek* at its worst is still enjoyable for the sets (especially the gratuitous holodeck), the special effects, and the soap-opera nature of the relationships amongst the characters. Despite being much more of the latter than the former, I won't deny that I had a lot of fun watching *Star Trek: Generations*, the schmaltz-laden newest installment in the lucrative *Trek* movie series.

The first half hour or so of the film is taken up with a bunch of trekly sentimentality surrounding the commissioning of a new starship Enterprise, finally retiring the original *Star Trek* cast and losing Captain Kirk under suspicious circumstances. Meanwhile, in the future, Captain Picard and his merry bunch are trying to foil the mad plans of a Dr. Soran (Malcolm MacDowell, somewhat underused) to blow up inhabited solar systems to get back into a cheesy plot device referred to as "The Nexus." Techers should have fun reviling in shock at some rather egregious violations of the laws of physics, but some genuine enjoyment is to be had in a subplot involving the android Data experimenting with an emotion chip. A well-done and cleverly scripted firefight with a renegade Klingon ship leads to some very impressive crash scenes, if you're looking for some visceral action. Go into this one expecting a lot of smug *Star Trek* nostalgia and big plot holes, but if you're at all familiar with the *Star Trek* universe, you can also expect a good time.

They Might Be Giants at the Pantages Theatre, Nov. 17, 1994

That's right, it's Geek Week for Media Guy. First *Star Trek*, now quirky musical group They Might Be Giants. They Might Be Giants, however, exemplify the best geekdom has to offer, with genuinely funny lyrics, catchy tunes, and a large disregard for the conventional trappings of the pop music world. Moreover, these guys are fantastic in concert. They had the audience on their feet from the beginning of the show, and even got people into the aisles to form conga lines during "No One Knows My Plan." There wasn't a dull moment of the concert, and They have expanded Their basic accordion and guitar with a full band, which at times included a trombone, saxophone, tuba, ukulele, and glockenspiel. They never fell into repetition, and spiced up the concert by performing some extremely twisted versions of some of their most popular songs. When They come back to town, don't miss Their show.

Eraserhead and Pink Flamingos

This past week, the Nuart Theatre in West L.A. has been celebrating its 20th anniversary by showing double features of some of its most popular films. On Monday, cult classics *Eraserhead* and *Pink Flamingos* shared the screen. *Eraserhead* is possibly the most mind-numbingly astonishing pieces of strangeness I've ever seen. After this journey into dementia concludes, one feels that one has been evolved into the next higher step, beyond the ken of ordinary humanity. *Eraserhead* was David Lynch's (*Blue Velvet*, *Wild at Heart*) first film, and it follows what goes on in the mind of a poor soul who must take care of his alien-looking baby. This film leaves its interpretation and themes wide open. I felt it was about male anxiety, and a friend of mine was sure it was overwhelmingly existentialist. Whatever the meaning, unquestionably this film expands your mind and disturbs you greatly.

Watching *Pink Flamingos*, on the other hand, makes you feel violated. This truly revolting film, subtitled "An Exercise in Poor Taste," was one of director John Waters' (*Serial Mom*, *Hairspray*) first films, and doesn't show any of the technical skill Lynch showed with his early work. In time, though, Waters' budgets have gotten bigger, and his storytelling skill, sense of timing, and sense of taste have all gotten better. But as bottom-of-the-barrel cultural literacy, it's quite hard to beat *Pink Flamingos* for sheer shock value, from the early scenes of sex with chickens to the final scene of Waters' 300-pound transvestite star Divine actually eating dog excrement. The plot, so to speak, follows the exploits of a couple engaging in a "filthy war" with Divine over who can claim the title of "filthiest people alive." Needless to say, both combatants more than qualify. I don't know why I would ever want to watch this movie again, but if you can stomach it, it might be worth watching once just to be able to say you did so.

Editor's Corner

From your Nice and Unimportant Tech Editor

This is it!! The last issue of the term. Boy, did everybody want to get into the act here! I can't remember when so many people flaunted the deadlines. But, just all you people wait! Next term, we're enforcing all the deadlines!! That's right, ALL the deadlines. (Like anyone's going to believe that.) Anyway, if you want to get a jump start on next term, here's our good ol' deadlines:

Deadlines for Submission to The Tech

Letters to the Editor

— 5 P.M. Monday

Events and Notices

— 5 P.M. Tuesday

Unsolicited Articles

— 5 P.M. Tuesday

Regular/Semi-Regular Columns

— 5 P.M. Wednesday

Articles, News Submissions

— 5 P.M. Wednesday

Art/Photo Submissions

— 5 P.M. Thursday

Please send submissions for letters to the editor to The California Tech, Caltech 40-58, Pasadena, CA 91125, or by electronic mail to editors@tech.caltech.edu. Deadline for submissions is Monday at 5pm on the week of publication.

The editors reserve the right to edit or refuse to print any letter for any reason.

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SOMETHING DIFFERENT AT CALTECH

MORCA DANCE THEATRE FLAMENCO IN CONCERT

SATURDAY, DECEMBER 3, 1994 / 8 PM
Beckman Auditorium
\$22.00 - 19.00 - 16.00

CIT STUDENTS: \$8.00

CIT STAFF / FACULTY: 1/2 price TECHTIX

CALTECH DISCOUNTS

Call the Caltech Ticket Office at x4652.

PANELISTS NEEDED FOR TELEVISION PILOT

Astronomers, psychologists, astrophysicists, neuroscientists, and other interested parties are needed for a panel discussion of "Newtonian astrology: planetary gravitational effects on human thinking, plant growth, and other phenomena." Audience questions will be accepted. Contact Mr. Vandegrift at (310) 820-3937.

Should the MOSH Move?

FROM PAGE 1

examination of all available locations for these two offices, the administration decided it would be most advantageous from their perspective and from that of the Institute to place them into Steele House, which in turn created the need to move the MOSH to another location. The administration was thinking of the possible benefit to the students of having these offices nearby, but unfortunately, since most of these decisions were made over the summer, students were not consulted about the changes that were planned. This leads up to the present situation.

For many undergraduates, the MOSH symbolizes a strong tie between the students and the faculty, and that is in fact the purpose of the position. It is hoped that by having a faculty member take on the role of MOSH, that the students will have an advocate among the faculty who they feel comfortable asking for assistance should the need arise. Also, the MOSH has typically fostered social interrelation between students and faculty members. Steele House has been for many years the place where the MOSH could be found by undergraduates as well as the place where social functions could be held by the MOSH bringing faculty together with students on a social level. Traditionally, freshmen have all been invited to dinner at the MOSH's house at some point during the year to meet with faculty members and administrators on a more personal level. This is something that Caltech, because of its small size, can uniquely offer. This is something that has been and will continue to be very important to undergraduates, faculty members, and administrators alike.

It is said that the MOSH's move from Steele House to 500 S. Hill will not affect any of his functions or his role. It is also said that the facilities at Steele House will be available for use by the MOSH after hours, should he want to hold an event there. However, these statements feel

to many undergraduates like something short of what is desired. For anyone who has been to Steele House, has been to one of the MOSH's functions there, it most likely seems unimaginable that a dinner at 500 S. Hill will hold the same enjoyment. For anyone who has played the pipe organ at Steele House, the loss of use of that instrument feels tragic. Nighttime use of the backyard at Steele House and the availability of a kitchen there for outdoor parties does not seem like a sufficient substitute, nor does it feel like a beneficial use of the space that Steele House offers.

For an example, consider the Admissions/Financial Aid Office. Picture the Admissions Office as a house instead of as an office. Imagine what it must have been like as a house for people that lived in it. Now, as an office, consider trying to hold a major social function there after hours. The nature of the place changes dramatically when it is converted from a home to an office. Steele House is orders of magnitude more beautiful as a home than the house that the Admissions Office occupies ever was. The loss of the home-like functionality of Steele House will be much more tragic. Holding a social event there will not be as amenable or as easy if the house is converted to offices. To suppose so is to think naively.

For another example, consider the President's home on Hill. Imagine moving the President out of that gorgeous home and turning it into office space for the Institute. The features that the house has as a home far outweigh the advantage of placing an office into that space, even considering the prime location as close to the undergraduates. The President's home would never offer the same benefits to him as a social gathering place if he had to leave it and only use it "after hours." As an office, the house would lose most all of its charm and most all of its func-

tionality. The same is true for Steele House. As an office, it will lose most all of its charm, and thinking that it will be as functional for the MOSH then as it is now is missing the point.

There are many other reasons why the conversion of Steele House into offices is a bad idea, even with all the noble intent behind it. It will most likely prove to be a costly venture, especially as Steele House was

effectively utilized.

Also, one must think about the greater utility to the students. Most every student is invited to Steele House at some point, so most every student gets to enjoy the facilities there. In addition, since every student here interacts with faculty, the MOSH serves a large role in his position as student advocate and sponsor of social interaction. On the other hand, the entrepreneurship programs planned for the offices to occupy Steele House may at most address the needs of half of the student body. Current interest in entrepreneurship programs is not overwhelming, and certainly it will not ever reach levels where it involves every single student. For the greater utility of the students, the MOSH must be realized as being more important to the student body as a whole than entrepreneurship programs would be.

Lastly, why does it matter where the entrepreneurial offices are located with respect to the students? Students are not afraid to walk across campus during the daytime to any offices or to classes, and since the daytime is when these offices would be open, their proximity

to students is not nearly as important as it may seem on the surface. However, at night, when most of the MOSH's functions are held, many students would not want to leave the safety of campus to cross Pasadena streets. This is especially true since it seems that there is an increase of late in assaults and thefts on and near campus. One should be able to see that for the role of the MOSH's house location is far more important

than it would be for the role that the entrepreneurial offices serve.

Overall, the decision to move the MOSH from Steele House seems like a poor one, even though it was made for positive reasons. The biggest problem now, however, is to find an alternative space for the Offices of Technology Transfer and Patents and Licensing. The MOSH's move has the advantage that it has momentum, and it is difficult to fight the inertia behind those plans. To turn the momentum around and set it on a new course of action will take an additional amount of energy. This seems especially difficult when combined with the fact that it appears there are no alternatives in available office space for these offices. However, all hope is not lost, especially among those on the ASCIT Board of Directors, and we are continually searching for any feasible alternatives to the loss of Steele House as the MOSH's home. Anyone should feel free to contact a member of the Board of Directors or the ASCIT Board of Directors for advice, input, comments, or questions regarding this issue. Any help or support that could be offered would be much appreciated. Many students, faculty members, and administrators are worried about the loss of Steele House as the MOSH's home; it would be a welcome change of plans should an alternative be found.

The Board of Directors would finally like to express their thanks to President Everhart and the Institute Administrative Council for their kind and careful consideration of this issue, to Dr. Lorden and Dr. Goodstein for their time and energy spent in discussion with us about this matter, and to everyone who became involved.

...the decision to move the MOSH from Steele House seems like a poor one, even though it was made for positive reasons.

not too long ago renovated to improve it as a house for the MOSH — money which now seems not fully taken advantage of. Then consider the money that will have to be spent on 500 S. Hill to bring it up to the standards of Steele House along with the money that the planned conversion to offices will cost. Even if the entrepreneurship programs bring money into the Institute, it still seems like not all of the money is being ef-

ASCIT FRIDAY NIGHT MOVIE

Tim Burton's
The Nightmare Before Christmas

BAXTER LECTURE HALL 7:30 & 10:00 P.M.
\$1.50 for ASCIT members \$2.00 for others

To Be Shown Next Term: *10 movies*

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from the director of *Red Rock West*
John Dahl's
Last Seduction

Daily 5:00, 7:30, 10:00 p.m.
Sat-Sun Bargain Matinee 2:30 p.m.

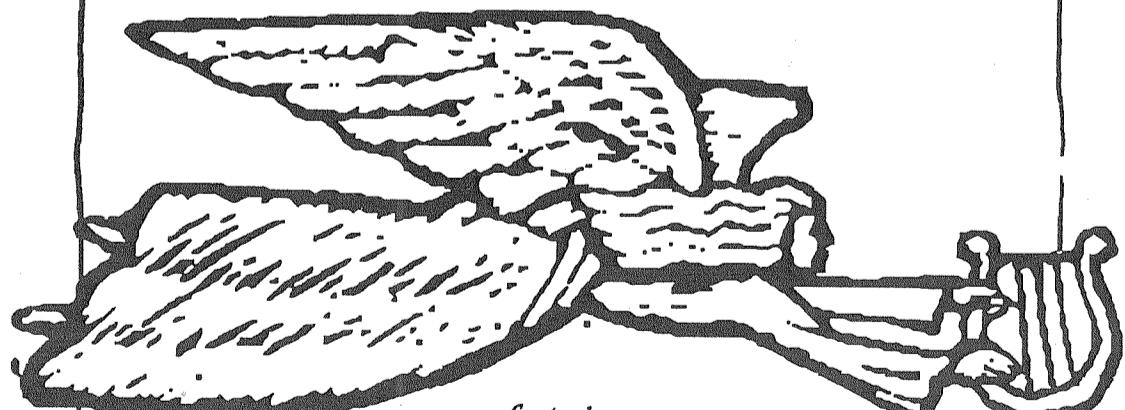
Louis Malle's
Vanya on 42nd Street

Daily 4:30, 7:10, 9:40 p.m.
Sat-Sun Bargain Matinee 2:00 p.m.

The Caltech Glee Clubs

present

A Holiday Concert



featuring

Christmas Cantata by Daniel Pinkham
with the combined Glee Clubs and brass choir

Carols and Lullabies by Conrad Susa
with Darryl Denning, guitarist

Salvator Mundi by William Mathias
and other festive music of the season

Friday, December 2, at 8 PM
Saturday, December 3, at 8 PM
1994

Dabney Lounge, Caltech

Admission Free

Games & Puzzles

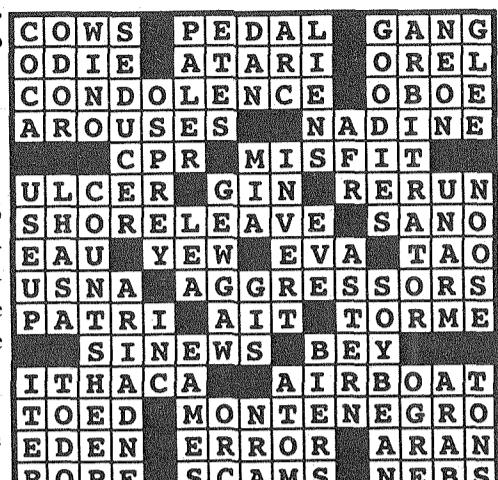
Since this paper won't be printed for a while, no \$10 contest this issue. Thanks for participating, and I hope to see you again after the winter break!! In the meantime, you can still mail any comments, suggestions, ideas, or virtually anything to gp@tech.

Answers:

Peter Weichman got 145 squares correct out of the 190-square crossword, and is the winner of last week's contest. Here are explanations for some of the tough clues:

ACROSS:

- 5. Bipedals ride bicycles, which have pedals.
- 16. Orel is an "unwell" "oral."
- 18. Oh, Bo [Jackson] sounds like "oboe." This was actually 19-across.
- 21. Not clued
- 24. Referencing the short-lived 80's pop star cartoon.
- 26. The novel was "The Dragon and the George."
- 29. As in Gin Rummy.
- 30. In the comic strip *Peanuts*, Lucy and Linus van Pelt's younger brother.
- 32. This is said by Fiver in Part II of the novel.
- 39. *Green Acres*, of course.
- 41. Referring to the two books *The Tao is Silent* and *The Tao of Pooh*.
- 50. "Torment" without "NT."



60. The three-toed sloth, to be exact.

67. As in the board game *Clue*

68. *House of Games* is a movie with con men...

DOWN:

- 1. Coca-cola was originally made from coca beans...
- 2. Rearrange the letters in "door."
- 3. Barney from *the Simpsons*, not some PBS show!
- 7. So many Dans you could shake a stick at!
- 8. As in *ARCsin*, *ARCcosine*,...get it?
- 9. It comes from the same place as "ligature."
- 13. Don Caldwell, that is.
- 22. Continent of Madagascar or Malawi
- 25. Try turning the page upside down...
- 31. *A Farewell to Arms*
- 34. The actress in the *Back to the Future* series
- 43. From Greek Mythology: look up Thesus
- 59. Reference to Tennessee Ernie Ford's pop hit *Sixteen Tons*.
- 63. The Brady Bill opponents

SEE DEUTSCHLAND, PAGE 5

60% of you needed to use this coupon four weeks ago.

That's because 60% of you aren't changing your oil every 3 months or 3,000 miles. If you're a member of this unlucky majority, consider this: The grime from all those miles becomes saturated in your car's oil, leading to irreparable damage to your engine. So get your oil changed with Quaker State motor oil at a Minit-Lube near you. Because this is one majority you don't want to be a part of.



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 (across from PCC)
ROSEMEAD 9655 Valley Blvd. 350-1530
 (at Temple City Blvd.)



Bridge Without Sam

No Help

by Jeff Goldsmith

Playing in a Regional matchpoint event, I sit down with a good player on my right and his red-haired girlfriend on my left. Partner is competent, but not very imaginative. With no one vulnerable, the redhead deals and opens 2♦, a weak two-bid. Partner passes, and after a long hesitation, RHO bids 4♦. I am looking at the best hand I'll hold all day:

♠	AK53
♥	AK1042
♦	VOID
♣	AK43

I have an easy takeout double, she passes, partner bids 5♣, and RHO passes in tempo this time. Now I have a bidding problem.

LHO	PARTNER	RHO	ME
2♦	PASS	4♦	DOUBLE
PASS	5♣	PASS	?

What is going on? Can I deduce anything about partner's shape? Obviously, he doesn't have a four card major, or he would have bid it. The opponents probably have ten diamonds, so he probably has three. That means he has either 3-3-3-4 shape or he has five clubs. If he were 3-3-3-4, he would either pass the double or bid 4♥, so I am confident that he has five clubs.

Can I deduce anything from the wiggle on my right? I don't know, but he's been here before, so he would put maximum pressure on me if he could. Bidding 4♦ is sort of like kissing your grandmother; if they have a major suit game, they'll bid it and you've gained very little. I suspect that either he thinks he has some defense against four of a major or that he has not enough shape to go to the five-level. He is not normally faint-hearted, but this is not the right venue to go for 500 a game, so in either case I suspect that he has a fairly balanced hand. If he has any shortness, it rates to be in clubs. If he had a semi-balanced hand with only four diamonds, I suspect that he would pass and not tell us about their fit, so I am guessing that he has 5-3-3-2 with five diamonds. That would, at least, explain the long decision. I cannot be sure of this, but I think that is what is going on.

What does this mean about our chances? Unlike most auctions in which they have preempted us, this time I think the suits are breaking in a civilized fashion. I know that we have a nine card club fit and that (of course) partner does not have very much. But I do. If we have nine trumps, then my diamond void means that we are playing with a 30-point deck. I have the best 21, so we do not need much for game or slam. Slam might well roll if partner has a 3-2-3-5 Yarborough! I don't know that he has more than that, but if he does, can I find out? All I need for a grand is for him to hold a hand like ♠xxx ♥Qxx ♦xx ♣QJ10xx. How can I get him to cooperate in a grand slam venture? Probably not at all; he thinks he has garbage, and he is going to be no help at all in a grand slam search. I could probe for seven with a delicate 5♥ bid, which must be forcing, but since we rate to get a good score for reaching a 23 or 24-point slam in the first place, I do not feel the need to take any chances and just bid 6♣. If my estimation of the distribution is correct, the opponents have preempted on a 5-5 diamond fit, which will likely not happen at other tables. I can easily imagine other bidding going Pass-Pass-Pass-1♥-AllPass. Maybe five is good enough? Perhaps, but if 4♦ is making, we need to be in slam, and I am confident that slam is cold, so I bid it which ends the auction.

Partner held

♠	J109
♥	87
♦	543
♣	QJ1086

6♣ was easy when each opponent was found to be 3-3-5-2, which was my guess during the bidding. +920 was a cold matchpoint top, beating a large number of +170s, and a few +420s.

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Director of Massacre Funding: A Social Commentary

by J. Random HercFrosh III and Lauren

Today's target: Them's fightin' words!

Raves: We are pleased to announce that the tab key on this damn keyboard is now functioning.

Sorry about that minor digression... we feel it is imperative that we turn our razor-like wit and searing criticism on the *Tech*. Well, maybe not the whole *Tech*, just that travesty of literature that is "S&M." And while we're at it, we'll rip into that dude that had the audacity to criticize our censorship article. I am referring here to the honorable Martin Koning Bastiaan.

We turn now to Sharon and Mark, er Marc. I'll make it plain and simple—just so that there is no misunderstanding. Sharon and Mark, er Marc, know nothing. Sure, they pretend to know much. They project a pretty PC façade, providing a series of "Best of" lists, so that their readers (should there actually be any) can avoid any sort of thinking or involvement. These lists serve to dull the senses (much like PuyoPuyo). They provide to people a canned life—kinda' like the *little t* but without the interesting choices, humor, or taste. Frankly, "S&M" fails to provide any sort of socially redeeming value.

Moreover, "S&M" is just plain wrong. It gives, dare we say, advice under the pretense that Sharon and Marc are people in the know. Well, they just don't know. They don't know from pizza, they don't know from pastrami, and they certainly don't know from movie theaters. With all of the cinemas in the greater L.A. region to choose from, they picked the AMC in Old Town as their favorite. Could they really be that out of it?

First, they mention paying "full theatre fare for a quality cinematic experience" in regards to the AMC. I must therefore question if Sharon and Mark, er, Marc have ever been to the AMC. If they had (and if their heads weren't shoved up their <explicit rectum reference deleted>, they would have noticed that AMC offers

a student discount for all showings. This is true for all showings and for all movies.

If it is sound systems you are looking (and you want to remain local), then the theater of choice is clearly the UA (across from the AMC). As a regular patron of both theaters we feel justified in claiming that the THX system in the UA is superior to that which is installed in the AMC. And, if it is an experience you are after, then the clear winner in the cinema roundup is none other than Mann's Chinese Theater in Hollywood. It is simply the best. It has the best seats. It has the best architecture. It has the best and biggest screen (capable of displaying 70 mm movies). It has the best sidewalks (and thus the best cement). It has, beyond the shadow of a doubt, the best THX sound system to be heard anywhere. It also offers an unrestricted student discount. It has cheap parking. And finally, its in Hollywood. Nothing else (well, maybe the El Capitan) compares.

Sharon and Mark, er Marc, touche.

We now turn our attention to the opinion column in the November 18 issue of the *Tech* entitled "With Friends Like These...", by Marty Koning Bastiaan (Notice that S&M never get fan mail of this sort the way we do—obvious evidence of who the masses truly read.). Anyway, we would like to compliment Marty on a well thought out, serious, and (yawn) respectable reply to our article on censorship. If only he had been responding to a serious, respectable article—get a clue, we are rarely serious!!! You obviously haven't read anything that asked you to think recently, otherwise you wouldn't have immediately taken our article at face value. We prefer to sprinkle intelligent thoughts throughout the body of our work. That way the intelligent reader has to distill the essay to find the true message, these ideas are dangerous in the hands of morons! If you must have everything explained to you, read S&M.

Note: This article was not, in fact, censored by the editors, who have heard some pretty good things about the sound system in the Egyptian Theater...

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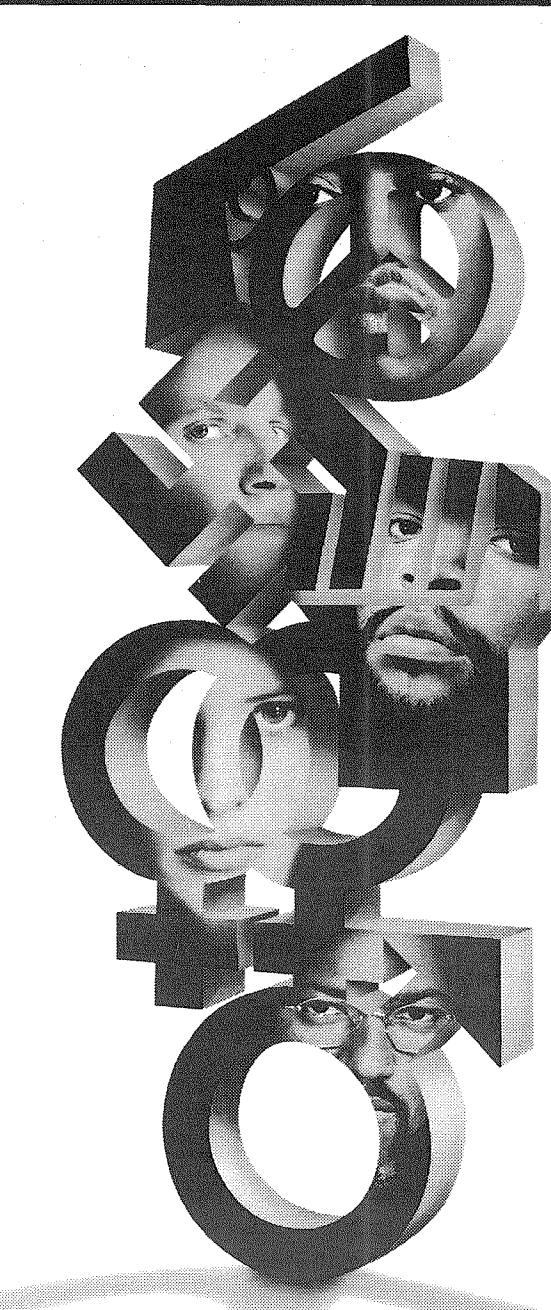
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Deutschland Answers:

1. Although the word order is still Subject-Verb-Object, most secondary verbs (such as those of subordinate clauses, the main verb if it is modified by a helping verb, infinitives, participles, etc.) all go to the end. For instance, "I have done a good deed" would have the word order "I have a good deed done." [various people]
2. A Hamburger Royal is a Quarter Pounder. [various]
3. The price when I went there was 3,80 DM (the comma is the German decimal separator). This is about \$2.75 in dollars. I gave credit for anything between 3 DM and 4,50 DM. Most of you were a bit high...
4. The U stands for the Untergrundbahn ("underground route"), often shortened to "U-Bahn," the underground train (subway). It is not unlike similar systems in Moscow or London. [various]
5. "Einbahnstraße" literally means "One way street." The tourist didn't know, obviously. A lot of streets are one-way there because they tend to be really narrow and can't handle modern traffic. [Cynthia Bradley]
6. The symbol ß is pronounced /ess-zet/. It gives the hissing /s/ sound instead of the /z/ sound which a single "s" in German gives. It's often written as "ss," and despite its appearance it has no connection to the Greek b — it's a symbol from old German cursive lettering, much like the way our ampersand ("&") came from the Latin "et." [various]
7. Most people noted that "König" means "King," and surmised that I must have been seeing many streets, cities, etc. named after kings. Actually, the reason I saw it so much was because of all the merchandise and advertisements for Disney's "The Lion King" — in German, of course.
8. "Gift" is a German word meaning "poison" [various]
9. In Köln, building 4711 is where Kolnisch Wasser (or Eau de Cologne as the French call it) was first and still made. It has a flowery scent. Inside the building there is a fountain of the water, which was originally marketed as something to drink! The building got its "name" from the French takeover when each building in the city was numbered so the city officials could keep track of what and who was where. [Angela Putney]
10. "Le Marseilles," the national anthem of France.
11. The capital is officially Berlin, but they haven't finished transferring "power" from Bonn, which was always a provisional capital anyway. The whole separation deal was temporary from the signing of Peace at the end of WWII. [Cynthia Bradley]
12. It's called an "umlaut". Technically, an umlaut refers to how the two dots affect the pronunciation of the vowel, but loosely it can refer to the mutation or pronunciation of the vowel, the vowel itself, or the two dots. Umlauts are usually pro-
13. Although there are many minor differences, most importantly, the z and y keys are switched. [various]
14. There is no German-imposed speed limit on the autobahn. Zack Berger pointed out that the Germans are not experimenting with some speed limits on certain sections of the highway. I also gave credit for stating the speed of light.
15. Ludwig van Beethoven. The puzzle was titled "Looking for Ludwig." The mural was done in chalk on the sidewalk (ha ha).



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Michele Wiegand

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goes the monster
toc toc toc
goes the wake
instinctual garb
long broken fingers glass
I play touch you with

I put on a pewter dress
to write you a letter—

with thoughts of pewter—
and pewter is what you receive.

Pewter is not balloons.
It is round—
though not the same
round as a balloon.
You would not tie
pewter to your wrist
at an amusement
park and laugh.

But there are many
things that pewter is not.

You are not pewter,
though you could join
me in a pewter dance—
dance with me—
monsterwake.

home
your fingers
lie
hersu wednatin
I needed a secret
so I stole one
it's time for bed

Kreative Korner Policy

Guidelines for Submissions.

Submissions are generally creative works, such as narrative, fiction, drama, poetry, artwork, or photographs. Essayists are encouraged to submit to *The California Tech*. Most cartoons should probably belong in the Inside World.

1. All submissions must be in by the Tuesday preceding the issue in which the submission is to appear.
2. Submissions may not contain libelous material without consent of those being libeled. It is the responsibility of the author(s) to check on this fact. Suspicious submissions will not be printed.
3. Submissions may not contain vulgarities. The editor has judgement on what constitutes a vulgarity.
4. Submissions must be turned in by e-mail, Macintosh disk, or 3.5" high-density IBM compatible disk.
5. All submissions will be submitted to the *Totem* after publication unless explicit instruction is given by the author(s) to the editors to the contrary.
6. The author must be part of the Caltech/JPL community. Certain waivers for alumni, friends of the community, etc. may be made at the editor's discretion.
7. The editor reserves the right to edit, shorten, disallow any submission, or take exceptions to these rules.

ME 72 Contest

CONTINUED FROM PAGE 1

elimination) exemplified possible approaches: Mike Debar (whose machine was named Most Intimidating in an ASME awards ceremony during the contest) and Justin Warner (who had by far the loudest following among the audience) used more conventional scooping techniques. Chuck Waite's machine, Best Looking in fire-engine red and gold, practically smashed opponents into submission. Chris Buchner's machine (not in the final round, but voted ASME Most Original) acted like a child with a tantrum, frantically spinning balls into its trough and, when maneuvered to the other side, disrupting its opponent's pile.

Craig Tibbets' long-armed device ("The Claw," the crowd called it) swallowed golf balls in greedy gulps. In the final round, both his and Justin Warner's machine nearly cleared the central trough of its entire store of balls. Although Tibbets'

fast and ravenous machine was the only machine to stay undefeated until the final, it lost two consecutive rounds against Justin Warner's machine, which won the coveted ME 72 trophy, which looks metallic and functional enough to be an award designed by engineers.

Another excellent design was not meant to win. Brian Brewington, a TA for the course, built a "placebo"—a dummy against which machines competed in their byes. A lovely and graceful Caltech beaver, it wagged a charming tail.

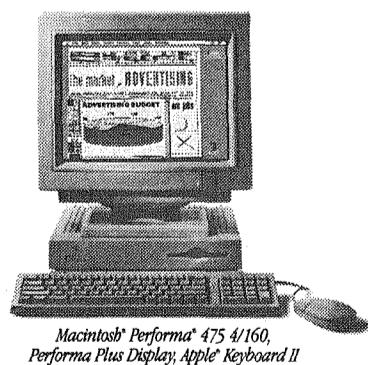
Antonsson, the course instructor, called this year's ME 72 class a study in procrastination. "Three weeks ago," he told the audience, "only four or five of the students had functioning machines. Now...well, they've pulled excellent work out of their hat at the last minute, which is a Caltech tradition." The competition has become just as much a Caltech tradition as procrastination, and almost (but not quite) makes one want to become a mechanical engineer.



The crowd couldn't get enough of TA Brian Brewington and his spirited Beaver.

PHOTO BY STEPHEN VAN HOOSER

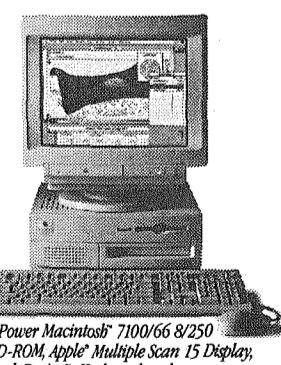
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SPORTS

Women Hoopsters Open With a Win

by Angie Marie Bealko

Not since the likes of Magic, Doctor J, and Larry graced the courts with their presence has a team consisted of so much pure raw power and finesse as the Women's Basketball Team does. OK, maybe not. But at least we give away free stuff.

Not to mention the fact that WE WON! Believe it or not, the team is undefeated and running high on an exhilarating win this past Tuesday night against Pacific Christian.

The Lady Beavers led throughout the entire hoop match. Towards the end of the contest the Beavers' lead was cut to a mere point, but they quickly retaliated and pulled out the win at home. Senior co-captain Sharon Grelecki proved to be a force on the boards as did her fellow co-captain junior Angie Bealko. Grelecki protected the Beaver's basket as the center of the defense for most of the game and used her brute strength to topple a Pacific Christian player fighting for a board. Just call her Shaq. Sophomore Ellis "freethrow fireball" Meng managed to push her way to the basket and grab at least half a dozen opportunities to shoot at the line. Meng also swiped her fair share of boards. Freshman Irene "Speed Queen" Wong kept the Pacific Christian guards hopping the whole game. Her fists of fury managed to pick the ball out of a few hands of bewildered opponents. The other freshman starter Lori "Lightfoot" Hsu switched off at point with Wong. Hsu pushed

the ball up the court for the Beavers at a feverish pace enabling the team to convert on a few fast breaks. Hsu also managed to sneak under the basket secretly to catch a few passes from Bealko for easy lay-ups. As usual "the Hammer" Bealko intimidated her opponents by flattening a few unsuspected victims. Bealko led the team with 17 points, stealing once for a coast to coast drive and even out rebounding three opponents for an easy two on her own freethrow attempts. Senior Heather "the Dribble" Gibble and Junior Amy "Air" Quan added to the strength of the guard spots and helped pressure on defense. Freshman Katie "Sharpshooter" Stofer and Lily "Flower Power" Chang rounded out the Beaver line-up playing some minutes as forwards. Chang made her presence felt by dishing out four fouls and letting the PC players know that the Beavers weren't going to be pushed around. Stopher hustled up and down the court proving that (despite the rumors) Texans really can play ball.

The Beavers' last home game was yesterday, Thursday. If they won, they're undefeated.... if they lost, they're 500. Not bad for a Caltech team, and the first women's basketball team ever at Caltech!! They never could have pulled off their 46-41 win without all off the cheering from the rowdy fans. Thank you all for your support! The screaming, the wave, and the encouragement are all more than appreciated.

Caltech Bike Race a Comedy of Errors

by Michael Kantner

On November 20, 6 Techers competed in the UCLA mountain bike race at Lake Castaic. Caltech had a strong showing, with two top ten finishers and a team placing of 4th.

The course was difficult, with 3 steep climbs followed by technical descents spread over 4 miles. Michael Kantner placed fourth in the Men's A race. On the first lap, he fell twice. The first fall was caused by mechanical problems, which plagued him for the rest of the race. The second fall occurred on the descent at the end of the lap. For the next 3 laps, he raced very conservatively, eventually moving into fourth.

Caltech had similar luck in the Men's B race. Mark Sorensen was racing very well, but lost his water bottle on a rocky descent. Though leading the race he withdrew due to lack of water and the effects of the Page party, the night before. Mark Milam, also in the B race, finished sixth.

Paul Kim, Sam Rowais, and Dave Lynn raced in the C category. Sam finished the two lap race at 20th place with Paul close behind at 22nd. Dave had repeated mechanical problems and could not finish the race.

Team Placings (top 5):

1. UCLA	121
2. Cal Poly Pomona	112
3. UC Riverside	92
4. Caltech	28
5. Cal Poly SLO	17

For more information on collegiate cycling, contact Michael Kantner at x4882 or cycling@cco.caltech.edu. One day racing licenses are available, and there are races for all skill levels.

SPACE

FROM PAGE 1

The Sky Is Falling!

Watch out! Earth will be bombarded on these dates by celestial debris.

December 12-15, 1994:

Gemini's Meteor Shower

December 21-23, 1994: Ursids

Meteor Shower

January 3, 1995: Quadrantids Meteor Shower

selection of a single team to develop, manufacture and test the prototype between 1996-1999.

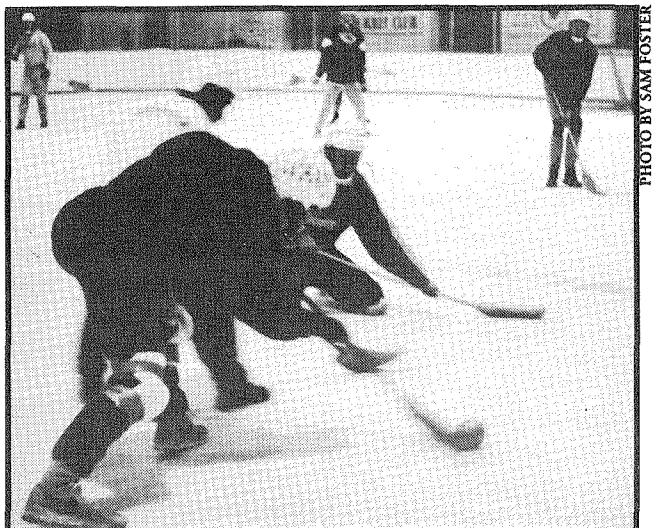
Their job will be a tough one: design a reusable aerospacecraft that requires only commercial jetliner turn-around time and meeting the national need for cheap access to space. Unlike the Space Shuttle program which was run by NASA and contracted out to dozens of private companies, this venture promises to take advantage of the best aspects of the free enterprise system while keeping cost and development time down. The fact that the corporations involved are taking a tremendous risk will spur the economic and time-related aspects of this vehicle.

Space Quote of the Week:

"Some people ask why NASA spends money in space. We don't. We spend it all on Earth — and in the United States. The one percent of the federal budget — and one-quarter of one percent of the GNP — we invest in NASA is a vital investment in our nation's competitiveness"

— Daniel S. Goldin, NASA Administrator

If you would like more information about CSS or its activities, email us at css@cco.caltech.edu or call 568-8028



Blacker's Jesse Rosenstock and Dave Bacon battle the Rudds for control at the Boffo Bonecrusher Broomball Broomball competition. Note the lack of goalie.

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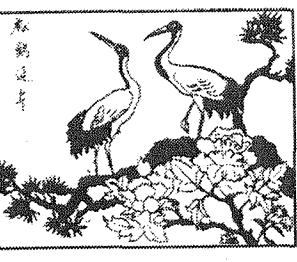
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INTEROFFICE MEMORANDUM CALIFORNIA INSTITUTE OF TECHNOLOGY Division of Geological & Planetary Sciences

TO: The Academic Policy Committee DATE: May 11, 1993

FROM: The Undergraduate Sub-Committee (Ed Etzkorn, Nathan Frei, Heath Hunnicutt, Joe Kirschvink, Antonio Rangel, & Jennifer Tritschuh)

SUBJECT: Recommendations Concerning Academic policies & Grading

The following proposed changes to academic policies concerning grades & grading were discussed thoroughly by our Committee, and we feel reflect the desires of a substantial cross-section of the undergraduates. These policies can be implemented under any format of restructured classes for the Core Curriculum. (They are also ranked in order of importance to the sub-committee.)

(1) Faculty should have no control over whether students decide to take their classes on a Pass/Fail basis rather than for grades. This decision should be made strictly between a student and the Registrar's computer, with no faculty veto. The P/F change will wipe out all official record of the actual letter grade turned in by the instructor, so that grade information for a class for which the student has used the P/F option will not be made available to anyone outside of Caltech. Many faculty are blatantly violating the present P/F guidelines as stated in the catalog by altering their definition of a Pass. The sub-Committee feels that only this approach will halt this abuse on the part of the Faculty.

(2) The Registrar's office should provide an expanded, computer-generated copy a student's transcript which includes accurate information concerning the course description and instructor. The present transcript system is out of date and woefully inadequate. Ma 1, for example, is listed on Caltech transcripts as Freshman Mathematics, and is interpreted at most other institutions as something like an introduction to algebra. All of the information necessary to print a better-formatted transcript is already on computer file, so this should not be an onerous task to implement.

Although the following section was determined to not be possible for funding reasons, it was in the original report and has been left in for completeness:

(3) The sub-committee endorsed the proposal that SURF students be allowed to earn research credit with Faculty sponsors during the summer term, in addition to receiving their stipend. Separate memos to this effect are attached, and the proposal is under review by other committees and the SURF Administrative Committee. A SURF is not simply work-for-pay, and should be treated under the rules guiding any other scholarship or fellowship. If research is an important component of the undergraduate education at Caltech, it is appropriate for it to be recognized in a more formal, academic fashion.

(4) Remove all restrictions on which classes can be taken P/F, including those in the core and those specifically required for graduation within an option. This should ease the complaints of the humanities Faculty in particular, and will encourage students to take a more diverse spectrum of classes.

(5) Create a new 'Pass/Fail day' at the end of Finals week for each term, at which time the selection for the elective pass/fail class should be made. Many classes are graded on a one-shot basis (final exams, term papers or projects, etc.). Hence, students are usually not in a position to make an informed decision by Drop Day. Moving the Pass/Fail decision to the end of the term (but before final class grades are known) would also tend to keep students motivated, as they would not know precisely which, if any, of their graded classes would be made Pass/Fail.

Discussion item (not ranked by committee): There should be more flexibility in the formal course requirements for graduation. Caltech is a unique institution, attracting some of the most talented and creative students in the world. Hence, the academic policies need to have a flexibility commensurate with the unique nature of our students and our Institution. At USC, any member of the Faculty can waive course requirements unilaterally in any field for a student advisee; however, this seems rather extreme and open to abuse. A more suitable approach for Caltech would be to allow two members of the faculty within any one Division to waive a specific requirement for one of their Division's classes by simply sending a note to the Registrar. Ideally, one of the two faculty would include the appropriate Academic or Executive Officer for the option involved. This would simplify the procedure for talented students, particularly in the Physics, Math, and Chemistry core classes.



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CORE

FROM PAGE 1

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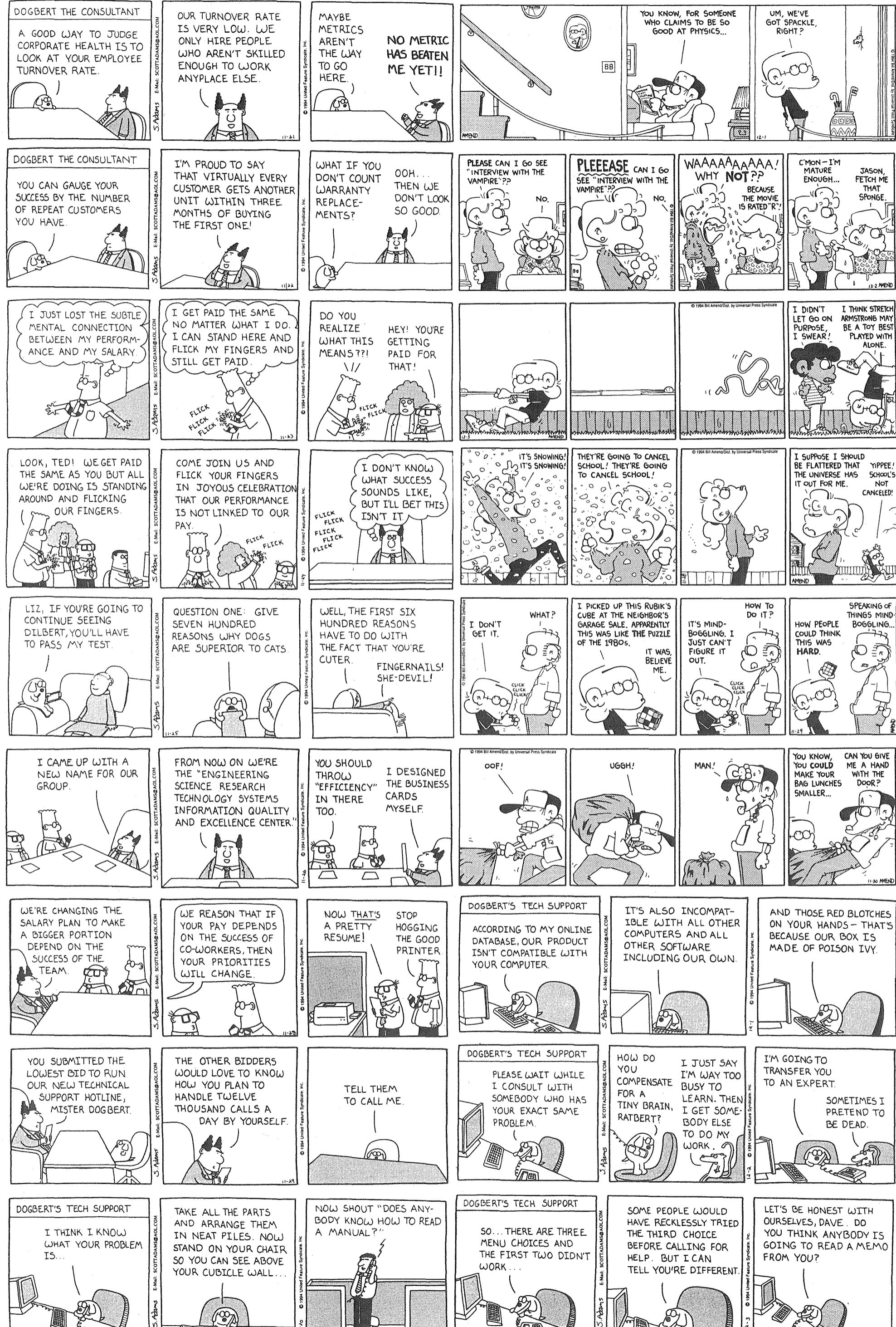
Though when the Task Force was created every assurance was given that the student input gathered would be taken into consideration, the Task Force has not had the same responsiveness to the students that its predecessor did. The Academic Policies Committee's reports were not even distributed to the Task Force's members until mid November of this year. When this extreme delay was called into question, the explanation given for not distributing the documents was that the Task Force was not specifically charged by the Faculty Board to take the Academic Policies Committee's findings or student opinion into account.

Other problems have been experienced as well. Several faculty members of the Task Force are felt to have their own agendas and to not seem to be interested in hearing student opinion. Additionally, the student members of the Task Force are given little voice and there have even been cases of student representatives not being notified of meetings.

Few Caltech policies have as much direct impact on the entire undergraduate population as those concerning the core curriculum. Because of this, students have every right to have a strong involvement in the decision making process. Furthermore any attempt to set policy on this issue is crippled without the insight of undergraduates. No one but the undergraduates have actually taken the core classes. Only the students have directly experienced the results of the policies that these committees debate. To minimize the influence of students is a grave error about which we are deeply concerned.

The box on the left contains the original recommendations made by the Academic Policy Committee. A complete copy of student opinions recorded can be obtained from any house president and will be posted to *caltech.ascit*.

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SURVEY

FROM PAGE 1

December the surveys will be sent in to Southern Illinois University, where the survey was developed and where aggregate data are kept. An approximately 300-page analysis will be returned to each participating school by the end of January. Each school will receive its own data and the overall data.

The five colleges, Fuller Theological Seminary, the Art Center College of Design, Pasadena City College, Pacific Oaks College, and Caltech, received a two-year grant from FIPSE (Funding for the Improvement of Post-Secondary Education) to pursue two goals: first, to obtain a database by doing the survey now; and second, to evaluate the effectiveness of programs and services currently provided. In pursuance of the second objective, a consultant will visit Caltech for two half-days to explore ways of improving substance abuse services. Also, the survey will be re-administered in two years to see if anything has changed.

The survey is called the "Core Alcohol and Drug Survey - Long Form." It was developed through a grant from FIPSE and has had its reliability and validity tested for six years. It is very popular and is used

nationwide.

At Caltech, the survey was distributed anonymously by mail to 600 undergraduates. There has been a 50% return rate, the highest among the five schools. Surveys will continue to be accepted until mid-December. The results will be used to help provide services and educational programs for the entire campus. "This survey will allow for a more accurate perspective of the use of sub-

stances within the Caltech community and what services to provide," said Dinah Lee Schaller, Drug and Alcohol Abuse Prevention Coordinator. Results will be used by Schaller to promote awareness of drug- and alcohol-related issues. The raw data and results will not be publicly available.

Questions on the survey ranged from background information (e.g., age, sex) to drug and alcohol use

questions (e.g., "Average # of drinks you consume a week"; "During the past 30 days, on how many days did you have alcohol?" "...tobacco?" "...marijuana?") to attitudes toward drugs and alcohol (e.g., "Do you believe that alcohol has the following effects? — Breaks the ice, Enhances social activity, etc.").

Since this is a general, nationally distributed survey, some of the questions do not really apply to

Caltech. For example: "On this campus, drinking is a central part in the social life of the following groups (y/n): Fraternities; Sororities; etc." Also, many students found question 19 confusing: "How often do you think the average student on your campus uses...tobacco, alcohol, marijuana, etc." Any comments returned with the survey will be forwarded to the researchers at Southern Illinois University who developed it.

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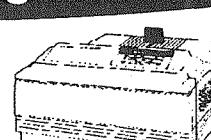
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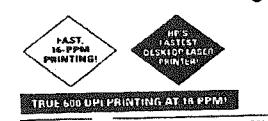
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Notices

Mentors are needed for a Pasadena Unified School District Partnership Program. Each mentor meets with a high-school student about once a month to discuss school work, college applications, and such. The two might meet for lunch, for example. JPL participates in the program, as do adults from Caltech and throughout the community. The organizers are particularly in need of female mentors to match with the female students. To learn more about the program, please come to an informal lunch time meeting with Pasadena Partnership Coordinator Alma Dillard. The meeting is on Tuesday, December 6, in the Caltech Y lounge, on the second floor of the Winnett Center, from 12:15 to 1:15 p.m. Bring a lunch, if you'd like. This is the time slot when Open Line normally meets and we're hoping that members of this group will join us at the mentorship meeting. Any interested people who can't attend or would like more information can call Alma Dillard at 568-4549 or Hillary Bhaskaran at ext. 6624.

The 6th Annual Posada Walk for AIDS Assistance will be held in Pasadena on Saturday, December 3rd from 5:00-6:30 p.m. This fundraising Candlewalk will benefit people living with AIDS and to remember those who have died with AIDS. The walk is 1.5 miles and will feature performing groups and other entertainment. To register to walk in the Posada, or for further information call 800/2-POSADA, or meet on the third at 4:30 p.m. in the Y lounge.

Care to Tango? Every Tuesday in December there will be tango classes held in Dabney Lounge sponsored by the Caltech Folk Dancers. No experience or partner is necessary, and everyone is welcome! Classes begin at 7:30 p.m. Call (818) 797-5157 for more information.

For the last several years, the Human Resources Department has "adopted" needy Pasadena families in lieu of a gift exchange among ourselves. Providing toys, food, and clothing for those who would otherwise not be able to celebrate has been very rewarding for us all. We have received several inquiries about how other departments of individuals could participate this year. If you would like information about adopting a person or family, you may call Veronica Kirton at x6374.

Goodwill Industries of Southern California is seeking male and female volunteers to model authentic antique fashions that date as far back as the 1860's. The style shows are held at major hotels, country clubs, and churches to benefit the non-profit Goodwill, which provides rehabilitation and job training and placement for people with physical and mental disabilities and/or social disadvantages. Shows are held weekdays as well as weekends. Goodwill is seeking models between the ages of 18 to 70 years, so please contact Beryl Panza or Cathy Hoyt at (213) 223-1211 Ext 229 or 230 for more information.

The Caltech Muslim Student Association will hold Muslim Friday Prayers weekly in the Y-lounge at 12:40 p.m.

"Take a Break and Spend Some Time with Friends." The office of the International Student Programs would like to invite you to our Open House for coffee, tea and conversation. Every Wednesday from 4:00 p.m. - 5:30 p.m. at the office of International Student Programs, Olive Walk. Open to the entire Caltech community.

If you don't do well on your finals next week, I personally will be very disappointed with you and may even call your Mommy. No droodles will be awarded point values.

From the Counseling Center

The Gay, Lesbian and Bisexual Support Group meets the first and third Tuesdays of each month at 7:30 p.m. in the Health Center Lounge. This confidential meeting is open to all Caltech community members looking for a supportive context in which to address questions and concerns about sexual orientation — including coming out, being out, self-discovery, coping with families.... We begin with a focus topic but move to whatever is feeling most relevant to the group that night. Refreshments are served. For information, please call 395-8331.

Coming Events

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Events and Notices

◆ denotes a new announcement.

Auditorium at 8 p.m. on Saturday, December 3rd. Dancers Teodoro and Isabel Morca are joined by two musicians in "Flamenco in Concert." In celebration of Teodoro's sixtieth birthday, a variety of renowned flamenco dancers, guitarists, and singers will join in the finale. Admission prices range between \$22.00 to \$16.00, though student tickets are only \$8.00, beginning one-half hour before performance. For more information, please call x4652.

The Friends of Caltech Libraries (FOCAL) Annual Dinner will feature James Thorpe, former director of the Huntington Library and Art Gallery, and author of "Henry Edwards Huntington: A Biography" on Thursday, December 15, 1994 in the Athenaeum; 6:00 Social Hour, 7:00 Dinner. Admission is \$55.00 for the general public and \$45 for FOCAL members. Call x6411 for reservations (must be made and paid for by Friday, December 9th).

Free Tickets and Stuff

The Caltech Men's and Women's Glee Clubs and the Caltech Chamber Singers will present their annual Holiday Concert on Friday and Saturday, December 2nd and 3rd in Caltech's Dabney Lounge. Featured works include: Daniel Pinkham's "Christmas Cantata" performed by the combined Glee Clubs and accompanied by brass choir; the Men's Glee Club sings Conrad Susa's "Carols and Lullabies," and the Women's Glee Club a carol sequence by Walter Mathias entitled "Salvator Mundi." The Chamber Singers will add traditional carols to this holiday mix. The concert is free and open to the public. Call extension x4652 for more information.

Caltech's 3rd annual Messiah Sing-Along with Conductor Dr. Donald Caldwell and orchestra will be held on Friday, December 9th from noon to 1:00 p.m. in the Dabney Lounge. Scored will be provided, or bring your own. A reception will follow.

Dr. Donald Yeoman of the Jet Propulsion Laboratory will present a E.C. Watson Caltech Lecture entitled "Cosmic Collisions and Near-Earth Objects" in the Beckman Auditorium on Wednesday, December 7th at 8 p.m. Admission is free; please call x4652 for more information.

Club Announcements

The Caltech Swedish Club will meet at 3pm on Sunday the 11th of December, at 204 S. Holliston Ave. apt 11, to celebrate Lucia. Anyone interested in Scandinavian culture or in speaking Swedish is welcome. For more information, please call Lena Peterson at 683-9102 (or email lena@pcmp) or Rustan or India Leino at 584-7162 (or email rustan@cs).

The Caltech Ballroom Dancing Club meets every Thursday at 7 p.m. in Dabney Lounge for a 90-minute ballroom dance lesson. No previous dance experience is required for this free class. Experienced dancers meet every Sunday at 1:30 p.m. in Winnett Lounge for a two-hour intermediate ballroom dance lesson. For further information, please send e-mail to rherman@ams.gps.caltech.edu.

Internships and Competitions

Applications are now being accepted for the 1995 Miss California Teen All-American Pageant to be staged on January 7th and 8th at the Holiday Inn Plaza Park in Visalia. The 1995 event is the Official Preliminary to Miss Teen All American staged annually in Florida. All judging is on the basis of poise, personal interview and beauty of face and figure. Applicants who qualify must be ages thirteen to nineteen as of August 1st. To apply, send a recent photo along with your name, address, telephone number and date of birth by fax to (304) 242-8341, or mail to: Dept. F-Miss California Teen All American, 603 Schrader Avenue, Wheeling, WV 26003-9619. Prizes include a personal appearance contract, cash, jewelry, luggage, and a FUR! Deadline: November 25th.

The University of Texas at Houston has created a Summer Research Program for students interested in pursuing a graduate degree in the biomedical sciences. Students will gain hands-on experience in the

areas of biomedical research under the supervision of faculty sponsors of their choices. Specialized training is available in laboratory and radiation safety, research technology, and biomedical ethics. Students will write research abstracts which will be published in the annual *UT-H Summer Research Abstracts* book. All student must be enrolled in any accredited U.S. college or university during 1995. Students are responsible for travel and living expenses, but will receive a \$2,000 abstract. All applications are due by February 24, 1995. For more information or an application, please call extension x1545.

Sao Summer Internship Program 1995 Applications are invited from undergraduates to participate in the Smithsonian Astrophysical Observatory Summer Intern Program at the Harvard-Smithsonian Center for Astrophysics in Cambridge, Massachusetts. We anticipate that twelve positions will be offered during the summer of 1995. Research opportunities exist in all areas of astrophysics from planetary science to cosmology including theory, observation, data analysis, instrumentation and laboratory astrophysics. The program will provide students with the opportunity to use telescopes at the Oak Ridge Observatory and to present a paper at a scientific meeting. The Intern Program begins June 12th and ends August 18th, 1995. The stipend will be \$250 per week, and housing/travel will be subsidized. Applicants must be US citizens (or hold a valid green card) currently enrolled in a program leading to a bachelor's degree. Graduating seniors are not eligible. For more information email to: IN%kdw@corwin.harvard.edu.

The 1995 Elie Wiesel Prize in Ethics Essay Contest, with awards totaling \$10,000, is now open to junior and senior undergraduates who are enrolled full-time at an accredited college or university in the United States. The deadline for submitting an original 3,000-4,000 word essay is January 13, 1995. The theme for this year is: "Creating an Ethical Society: Personal Responsibility and the Common Good." For entry forms and guidelines contact: The Elie Wiesel Foundation for Humanity, 1177 Avenue of the Americas, 36th Floor, New York, New York 10036. Phone: (212) 221-1100.

Fellowships and Scholarships

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

The American Concrete Institute (ACI) is offering several awards. The Peter D. Courtois Concrete Construction Scholarships are two \$1000 awards for undergraduate study in concrete construction for the 1995-96 academic year. Eligible students must be enrolled at least half-time and must be seniors in 1995-96. The application, available at the Financial Aid Office, with all required supporting documents is due January 10, 1995.

The Association of State Dam Safety Officials, Inc. announces its 1995 Dam Safety Scholarship Program. Applicants must be juniors or seniors in 1995-96, and must demonstrate an interest in pursuing a career in hydraulics, hydrology, or geotechnical disciplines, or in another discipline related to design, construction, and operation of dams. Applicants must also have a cumulative GPA of 3.0 or above. Applications are available at the Financial Aid Office, and must be received by ASDSO no later than January 17, 1994.

The Korean American Scholarship Foundation, Western Region, is offering two scholarships of \$10,000 each or four scholarships of \$5,000 each, and more than twenty scholarships of \$1,000 or higher to full-time students of Korean-American heritage. Applicants must be at least second year undergraduates, or graduate students. To receive an application, write to: Scholarship Committee, KASF Western Region, 400 Bridge View Drive, Anaheim, California 92808. Completed applications are due January 31, 1995.

The College Women's Club of Pasadena Scholarships Foundation is awarding scholarships and fellowships of at least \$1,500 for the 1995-96 academic

year. Applicants must be at least second year undergraduates or graduate students who will be enrolled full-time in 1995-96 and have at least a 3.0 GPA. Completed applications and all supporting documents must be submitted to the Financial Aid Office no later than February 9, 1995.

The Chinese-American Educational Foundation is offering scholarships to graduate and undergraduate students of Chinese descent. All applicants must be full-time students in 1995-96 and have at least a 3.0 GPA, and undergraduates must have completed at least one year of study. Completed applications must be received by April 10, 1995.

The Association of Former Intelligence Officers San Diego Chapter 1 announces the establishment and offering of the Annual Lieutenant General Eugene F. Tighe, Jr., USAF, Memorial Scholarship. The scholarship is in the amount of \$1000. It will be awarded based on the judged quality and suitability of a 1,000-1,500 word essay on the topic of: "What role should the United States Government's Intelligence Community play in supporting American business interests worldwide?" Completed applications must be postmarked no later than December 15, 1994.

Glamour Magazine announces its 1995 Top Ten College Women Competition. Scholarships are in the amount of \$1000. Winners also receive national recognition in Glamour's October 1995 issue, and the opportunity to meet with top professionals in their fields. Women who are full-time juniors for the 1994-95 academic year are eligible to apply. Applications are due January 31, 1994.

The National Academy for Nuclear Training announces its Scholarship Program Competition. Academy scholarships are awarded on the basis of merit to students with a demonstrated interest in, and potential for, a career in the nuclear power industry. Approximately 125 awards of \$2,250 each will be made to students who are currently pursuing a bachelor's degree in nuclear engineering, power generation health physics, or a nuclear/power option in a discipline such as chemical engineering, electrical engineering, or mechanical engineering. Application materials must be postmarked no later than February 1, 1995.

The American Scandinavian Foundation of Los Angeles (ASF/LA) is awarding four \$1,000 scholarships to undergraduate and graduate students with a demonstrated interest in Scandinavia. Applicants must have strong academic qualifications and must show financial need. Two letters of recommendation, appropriate transcripts, and the completed application are due by March 15, 1995.

The American Electroplaters and Surface Finishers Society is offering scholarships to upper class undergraduate and graduate students who are interested in careers in the surface finishing field. This includes those majoring in the fields of Chemistry, Chemical Engineering, Environmental Engineering, Materials Science, Materials Engineering, Metallurgy, or Metallurgical Engineering. Applications and all requested documents must be postmarked by April 15, 1994.

Please contact Lauren Stoller, Fellowship Advisor for information on any of the awards of programs listed below at extension x2150 or e-mail at Lauren_Stoller@starbase1.caltech.edu or contact the person or organization indicated.

The Rotary Scholarship allows students to study abroad after graduation in any country having a Rotary Club for one academic year. Students must speak

the language of the country. This is a great opportunity to live abroad with all expenses and travel funds paid. You can study in your major or in some other field that interests you and in which you have a good background. Juniors and seniors who apply now will be able to go abroad in fall of 1996. Therefore, it is advantageous to apply as a junior if you wish to go abroad immediately after you graduate. Find out more by attending a Rotary Scholarship Information Meeting and Pizza Lunch on Monday, December 5th at 12 noon in Winnett Lounge. Call x6330 by Thursday, December 3 to let us know if you will come. Please note that U.S. citizens AND international students may apply. Applicants who have an immediate family member in the Rotary Club or whose parents work for the Rotary may not apply.

Tau Beta Pi, the national engineering honor society, is offering fellowships in the amount of \$7500 for use in graduate studies which advance the interest of the engineering profession. Applications are welcomed from all members of Tau Beta Pi, both students and those already graduated. Students who will be initiated by March 1, 1995 are also eligible to apply. The fellowship committee looks for high scholarship, strong faculty recommendations (two are required), definite extracurricular contributions, unusual promise of substantial achievement through a definite plan or purpose, and a program through which accomplishment will advance the interest of the engineering profession. Interested students should contact Joe Lee at extension 1420 or through e-mail (jplee@ccn). Applications must be postmarked on or before January 17, 1995.

The James Madison Memorial Fellowship Foundation has at least one \$24,000 fellowship available in California for master's level graduate study of the framing, principles, and history of the Constitution by current and prospective secondary school teachers of American history, American government, and social studies. The fellowships are available to U.S. Citizens or permanent residents who are either college seniors or master's level graduate students and are pursuing one of the following degrees: MA in American history or political science; MA in Teaching in history or political science; or a related master's degree in education that permits a concentration in American history, American government, or social studies. For additional requirements and for information on how to apply, come to the financial aid office, or write to the James Madison Fellowship Program, P.O. Box 4030, 2201 North Dodge Street, Iowa City, IA 52243-4030. Completed applications must be received by March 1, 1995.

The James Madison Fellowship has also begun to provide graduate school funding for outstanding college seniors or college graduates without teaching experience who intend to become secondary school teachers of American history, government, or social studies for grades 7-12. Applicants may study for a master's in American history, political science, a master's of arts in the teaching of history or political science, or a master's in education that permits a concentration in the fields specified above.

The Lemelson Fellowships allow undergraduates to explore creative solutions to real-world problems as a visiting student at Hampshire College. This is a great opportunity to take a break from Caltech and receive a generous stipend/tuition at the same time! Undergraduates can go for either one semester and receive full tuition or go for a full year and receive 70% tuition. Hampshire is located in a beautiful part of Western Massachusetts near Amherst, Smith, Mt. Holyoke and U. Mass Amherst. Lemelson Fellows can take courses at any of these schools. This is a wonderful way to see another part of the country, meet new people, experience weather (brrrrrrr!) and have it paid for. Jerome Lemelson the founder of this fellowship is an independent inventor who holds more patents than any living American including patents for key components of the VCR. The deadline for the fall semester of 1995 is March 15.



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CENSORED

The Calipornia Blech

HEY,
WHERE'S
THE
PORN?

Volume XCVI cubic decimeters

Little Old Slappy From Pasadena

Friday, December 2, 1994

Church of Scatology Buys Steele House

by Pontiac Western

Unreliable sources tell us that the reason for the MOSH leaving Steele House is not, in fact, due to the new Office of Technology Transfer and the Office of Patents and Licensing taking its place, but rather a new branch of the Church of Scatology taking its place, to be called the Office of Technology Transfer and the Office of Patents and Licensing. (Pretty devious, aren't they?) The Church of Scatology is based on the Diabetics theory of a Professor Hon R. Bullard and other relations to bovine scatology. Prof. Bullard is a visiting professor at this institute for 53 years, and works in the division of the Socialites and Human Seances.

This new branch will proceed to take over Steele House, which will serve as a useful base of operations for future plans in taking over the world, a goal they are in competition with two lab mice in an unidentified lab in the Los Angeles area. They chose Steele house for its unobtrusive location, proximity to places of importance to the American public, proximity to the only lawn sprinklers in the world that continually water the sidewalk, but mostly because they were pissed off because the *Totem* stole their cover idea.

They were able to achieve this takeover through the influence of Professor Bullard, a lesser-known notorious person at this university. When ap-

roached with this question, Professor Bullard replied, "What's the question?" This paper therefore concluded that he was evading the issue. In order to investigate more on this issue, this paper sent forth two reporters posing as undergraduates to enroll in Bullard's class, S104, "Seminar on Amazing Developments in Bovine Scatology." They never returned. However, they were reported to be seen lying naked and dead in the middle of Colorado (Boulevard, you idiot! Not the State!!) by the Security Office. Well, they may have been telling the truth naked and dead in the middle of Colorado. You never know. But since this paper doesn't pay its reporters, it's just as well.

A new book has recently been released. It features an orange kitten in the halcyonic days before humanity left the Garden of Eden. The cat and its owner (her name was never actually specified in the book) happen upon a plaid toadstool, upon which the box of Pandora sat. The ending to this gripping mystery, however, shall not be revealed here. The book retails for \$10.99 at the local Crown Books. It is highly recommended, and I give it three thumbs up.

Additionally, another reporter of this paper has just been RUNed (executed) because of an insertion of a book review paragraph inside a completely irrelevant article. Upon cremation, it was found that the reporter was, in fact, a diabetic, and therefore a secret member of the Church of Sca-

tology. It was also discovered during the same incident that candied ashes taste pretty darn good.

The major student body, the associated Students of the Hellish Institute of Technology (SHIT), has attempted to stop this takeover because the Church would be in direct competition for their main product. However, they were not consulted during the summer when the decision was made by the Forum of Undergraduate Compulsory Knowledge (FUCK) to move the MOSH from Steele. When a representative from SHIT was asked about this, the reply was "No student is aware what FUCK does since this school is too restricted." FUCK replied to these allegations by saying, "When we make decisions, we don't give a SHIT." Combined with the fact that the members of FUCK are not under the jurisdiction of the Honor code and can therefore not be held accountable in front of SHIT's Board Under Legal Laws (BULL), the entire ordeal seems to be taking power away from the students.

The undergraduates are outraged. The registrar's office told this paper that no students attended class last Thursday, obviously an act of rebellion against the administration. When the demonstration proved ineffective, the students refused to go to the class for the three days after that. The school shows no signs of backing down, and the students show no sign of intelligence since they went back to class

on Monday!

And what does the MOSH think about this? When accosted, the MOSH replied, "Hey! This cheese cake is pretty good!" This statement the reporters had to agree upon. But when asked about the moving of the house, the MOSH expressed opinion that he would not like to move. If the Church of Scatology arrives though, all that will change.

How about the organ? Well, are you talking about the heart, kidney, pancreas or liver?

In fact, Professor Bullard has expressed a deep interest in becoming the new MOSH. We, as students, are strongly against this, as we were strongly against Veliovsky's theories about a comet flying past the Earth, changing its direction of spin, and settling down as Venus. We know that's wrong because we distinctively remember Venus as a pretty woman <drool> born out of a shell with no arms on to resist our desires. In fact, I <drool> want to <drool drool> fu<drool SLAP!> Thank you. Anyway, this paragraph is distressing.

Well, this paragraph is stupid, so there!

Please, if you're reading this, write to your local congressman and say that you strongly oppose this transfer and that they should do something about it. Then, write to me and put \$50 in the envelope. I'm sure your congressman would be real pleased.

For many students, this transfer represents the greatest

SEE MOSHER POTATOES, PAGE F

W E L C O M E
T O
T H E
N E X T
L E V E L

S E C O N D
S E T I N G
D E C E M B E R
2 5
W I N N E T T

Hyaa,
right!
(Who the hell
put this
here?)

IT'S A GIANT CHICKEN, I
TELL YOU!!!! A GIANT
CHICKEN!!!!



B Dismember 2, 1994

NOT FLEMING

Top Ten Reasons Why This

Inside World Sucks

10. Lots of Random Junk Strewed all over.

I can't believe the Inside World has degenerated to this. There's

not a single interesting thing in this mass of crap except page D.

9. It ain't even close to representative of the student houses. I mean, what the hell? We got ONE submission from Blacker?

This is crazy!!

8. The Jerk Editor Whining and Whining about lack of submissions. Just read that sec-

tion on the bottom of page B. He even tries to impress us by speaking dirty, Cheya, right.

7. Vicki Brown wrote another damned article that got in. As if the last flamings from last year weren't enough. CAN'T YOU LEARN ANYTHING, FUCKHEADS? She's NOT an UNDERGRAD!!!

6. The sections lie like a dog in the sun. And libel, and slander, and innuendos, and so on.

Why, even this section has a damned lie: Vicki Brown didn't submit anything! Number seven should have

been for the lack of porno!

5. Wei-Hwa Needs to see the men in the white coats. I mean, is this guy schizo or what? He writes all this different stuff that no one cares about and flames himself. Jeezus.

4. All the articles that look like Swiss Cheese. Isn't it obvious?

3. No Ernest Explains

Instead, we get that "Question Man" crap. HE should have stayed dead.

2. Only one page of dilbert??? The whole damn TECH should be dilbert! Boy oh boy, that's what I'd like to see...

1. There's no real Fleming Top Ten, dammit!

ERRATUM

In the last Inside World, instead of "Keith Counsell" it should have said "loser."

We apologize for any inconvenience this may have caused.

The Inside World is pleased to announce the winner of the 1994 Dave Perlman Look-alike Prize. As you may recall, last year the prize was won by Neil Jones. This year, the winner is Dustin Green!!!! Congratulations, Dustin!

Inside World Policy

Guidelines for Submissions. Submissions are generally writings that the undergraduate community of Caltech may find interesting. Almost anything is fair game.

1. All submissions must be in by the Friday preceding the issue in which the submission is to appear.

2. Submissions may not contain libelous material without consent of those being libeled. It is the responsibility of the author(s) to check on this fact and explicitly mention this to the editor. Suspicious submissions will not be printed.

3. Pseudonyms are allowed; however, the name of the true author of any submission must be given to the editor, allowing the Inside World editor to release this name upon request.

4. All entries must state a house affiliation, or lack thereof, of an existing undergraduate house on campus. Please inform the editor if the submission is to be printed under another "affiliation."

5. Submissions must be turned in by e-mail, Macintosh disk, or 3.5" high-density IBM compatible disk. The e-mail address is *iw@tech*.

6. The author must be a registered undergraduate. Certain waivers for other people may be made at the editor's discretion.

7. The Inside World editor reserves the right to edit, shorten, or disallow any submission. The Inside World editor also is allowed to waive any of these rules after having received consent of the editor of *The California Tech*.

8. The Inside World editor is an appointed volunteer job, appointed by the editor of *The California Tech*. Interested people (Please, dammit!!) should contact the editors.

Okay. I'm done. I'm not going to beg. I'm not going to plead. I'm not going to do nuttin. This is your last chance. If I don't either get submissions to the Inside World or get someone to volunteer to edit the damned thing, it's gone. Kaput. Nada. (By the way, editing the thing means you follow MY rules (which ain't that stringent (I even allow multiple (nested) parentheses!)) and that YOU are responsible for getting the material, plus that I get to fire you whenever I choose. Well, yer not getting paid anyway, so hoo boy.) So don't give me no crap about "Oh, but if we lose the Inside World, we lose tradition, blah blah blah." Well, from what I've been getting in *iw@tech*, if we lose the IW we lose NOTHING!!! Hah! <Dirty Mode On> So if you motherfuckers ain't gettin' this shithole moosiegun up your fuckin' anuses, yer gonna be looking at some bloody sad screws, my man. And if you jus think I'm a load of bullshit, why don't you make like chickenfeed and choke yer

QUESTION MAN

Dear Question Man,
They lied. Macaroni and Cheese, fucker.
—Barb the Barb

Dear Barb,
Didn't I get killed by Ernest? What's my real occupation?

Dear Question Man,
Ooga Booga Chooga!!!
—Sleeping in Sacramento

Dear Sleeping,
What is the sound of one hand clapping?

Dear Question Man,
What the hell is going on?
—Jonathan Price

Dear Jonathan,
That's not an answer.

Dear Question Dude,
Nyaah nyaah! If you think I'm giving you answer, you are dead wrong!
—Pev-Olar Pedersen

Dear Pev,
What am I doing back here? What's the deal between me and Ernest?

Dear Question Man,
Four Score after a century ago, our Techers brought upon us a new school that decreed that all students shall have a sense of humor, or else fail Chem 3. And as to that, he's better looking.
—Bluehair

Dear Bluehair,
Do you actually think this column is funny? And why is Mark Hamill playing you in the next sequel?

Question Man promises to find questions to all your answers! Send your best answers to *iw@tech*.

THE INSIDE WORLD

This week's Inside World was presented by:

ME!! It's ALL Mine!!! HAHAHAHAHAHA
(And I'm typesetting in Monaco! Hahahaha!!)

The Scoreboard

WEI-HWA	1	0	∞	8
BLACKER	0	1	1	1
DABNEY	0	3	0	0
FLEMING	0	1	0	1
LLOYD	0	1	0	1
PAGE	0	0	0	0
RICKETTS	4	1	0	5
RUDDOCK	0	0	0	0

General Failure Reading Drive B: Abort, Retry, Ignore, Fail?!

Colonel Loser Reading Drive D: Abort, Retry, Ignore, Fail?_



CUT AND SAVE FOR YOUR NERDY JOKE ARCHIVES!!

Cross Words

edited by Wei-Hwa Huang

Phooey!
Damn!
Nuts!
Ouch!
Suck!
You Bastard!
I'm Pissed!
Shut Up!
You Make Me Sick!
Oh, Darn!
Rats!
Good Grief!
I Hate This!
No Respect!
I'm Angry!

You Suck!
Shitheads!
You Asshole!
I Don't Believe This!
You Can't Do That!
Peanuts!
Screw!
Oh, Fuck!
No Fair!
Damn You!
Blast!
Blabbering Blatherskites!
Phooey Kablooey!
Zounds!
Grrr...

Oi!
Ai!
That's It!
Liar!
Fuckheads!
My Gosh!
#@#\$%!!
Bastards!
You All Are Crazy!
By God!
By Allah!
By Jove!
By John Steinbeck!
Jumping Jehosaphat!
My Word!

Well, Blow Me Down!
<sigh>
AARRRGHH!!
Not Again!
Oh No!
No! No! No! No!
Let Go!
Stop That!
Go Away!
Not Interested!
I Am Not!
That Sucks!
I'm Stuck!
No Way!
Piss Off!

Ricketts Nickname List:

Winter 1994

by Adam Villain et al.
(Who's A?)

Super-Seniors

Mike "Myke" Hoskins
Richard Y. "In" Liu

Brian "Ethel the Aardvark" Trotter

Seniors

Max "Kill Mazel" Bloomfield
Charles Kevin "Chicken Boy" Boyce

Karen "The Bird Lady" Casciotti
Frances "Community Chest" Chance

Clark "KURV" Chang
Jenny "DD" Cormack

Keith "Loser" Counsell

Dudzik "Secret Passage" Anne
Frederick W. "Flowers" Duewer

Marcia "Ex-Jim" Elijovich
Cedric "Not Quite" Hobbs

Jacob "Cardor" Holland
Jason "PhysMath" Hollinger

Thomas J. "Pink Flamingoes" Lechner

Leslie "Another Blonde" Maxfield
Jonathan "Caribou" McDunn

Erika "Oscar" Meyer
Brien "Cacophony" Oberstein

Jane "Twin" Oglesby
Gisela "Gila" Rodriguez-Sandoval

Heather "Russel" Russell
Penny "Copier" Sherman

Scotty "Squatty" Townsend
Adam "Stewart" Villani

Michelle "Slip her a" "Mickie" Wilber

Saiful "Junk Mail" Zulkifli

Gypsy "Security" Achong

Michelle "Sonic" Celich

Andrew "Art" "Fool" "Haggis Lad"

Clarke

Travis "Oriental Women" Collier

Jennifer "Tickle Yani" Copas

Robert "Water" Cresswell

Scout "Gotta Have It" Dewinter

Brendan "Animaniacs" Dunn

Chris "SCMG" Gerardy

Gkioulekas "Star Wars"

"TMATM" "Cereal Box"

Eleftherios

David "Theater" Hobbs

Rachel "Pachydermal extra-

terrestrial" Hunter

Roman "I like it, I like it"

Jarosiewicz

Royden E. Jones, III

Mihoko "Sempai" Kato

Michael J. "Ammgadala" Medaglia

AAnthony "Incubate" Molinaro

Jean "Big Bad Boom" Mulcahy

Kevin "Drawn and Quarter"

Neville

Cecilia "Avenue" Park

Aaron "Jack O'Lantern" Rosin

David "Fuck Off" Smith

Patrick "Nuke" Spradlin

Andrew "Sulu" Tong

Sean "Ellison" Vellucci

Lyndie "Iter" Williamson

Joanne "Slinky" Yew

Sophomores

Toby "Jesus" Bartels

John Joseph "JJ" Carrasco

Kai Wai "Deutschland, Über Alles"

Chiu

Daniel "Blossom" "Dann" "Lauren"

Eckstein

Jarab "Wanna be like Roto" Evsin

Tad "Skin 'em" Fujioka

Wei-Hwa "Way-whaa" Huang

Andrew "LD" Huntington

Elizabeth "Materialize" Johnson

Neil "Grand Canyon" Jones

Sham "Elevation" Kakade

Thinh "Outside and in" Ly

Aaron "Not Rosin" Matz

Pauline "Blink" Ng

Scott "Not Seth" Noble

James "Testosterone Quelude"

Quallen

Priya "mvada" Rai

Radika C. "Erotica" Reddy

Marco "Latin Lover" Santos

Jesse "Free" Shue

Phil "and Phil's Girlfriend" Sutton

Jamie "Eerie" Walls

Michelle "Sigourney" Wiegand

Jason "Gump" Wiener

Dick Yeh, CCO Rep

Simon "sez" Yu

Transfers

Ramya "This anti eye hockey" Dissanayake

Rajul "Eating" Malhotra

Eileen "Kool-Aid Woman" Lau

Frosh

Sudipta "Bubba" Bardhan

Sarah "Beaver"

David "The Beaufit" Blau

Lubomir "Lobo" Borissov

Yeng-Long "Long Wang" Chen

Shay "Phone Book" Chin

Boris "Shoogums" Dmitrov

Lael "Bugs" Easter

Kulvinder "Who?" Gill

Carmen "Tequila" Green

Dustin "Knight Cow" Green

Eván "King Ad-Rock" Húrowitz

Robert J. "Inland Emperor" Johnson

Man "Shaggy" Jones

Emil "Borscht" Kartalov

Erin "Lydia David" Lynch

"Big" Terry Moran

Barbara "Berbery" Novak

Siddhartha "Little Klepto-Buddha"

Padmarabha

S. Jason "Life in Hell" Sekanina

Geoff "Not Goff" Smith

Michal "Leo Buscaglia" Smulski

Advoquita "Perry Mason" Stude

Yingzhang "Fuck" Tian

Brandon "Absolut" Vande Brake

Patrick "Not a God" Vela

Jennifer "Phobia" Wang

James "Jed" "Walter" Wing

Dan "I don't" Wyckoff

Jing "Ed Asner" Xu

THE ZANE CHRONICLES

from Zack Berger

Motif

*Zane Crawford is a frosh.
In every sense of the word.
This is his story.*

Czech, "What a great guy." ("Maricon.")

They were going to let me through right away but first they asked to see my keys, which I had unfortunately left behind in the eye-socket of an unfriendly Parisian. So here I am, drinking some great Czech tequila and writing this letter to you.

I was going to tell you about the train. There I was, riding on the French Very Fast Train, and a beautiful physicist sat down next to me. I knew she was a physicist because she was reading a book of poetry, and all physicists (like me) love poetry.

"OK," I said.

Sultrily she hit me over the head. When I woke up, I found I was on the top of the train! The train was speeding along with a velocity v. (I am, after all, a physicist.) There is a poem about trains which goes,

"When you're on
the top of a train,
"Use your brain,
"And then
you might remain
"Alive."

Wrong!

"Wrong!" they said, in Czech.

What?

"What?" I asked.

Right!

"Right!" they said, this time in English.

Physicists

do homework sets and also they do lab writeups. Also they do journal articles. Also physicists do tedious manipulation of mathematical formulae. Also and et cetera. Are you physicist?"

Biologists

I changed my mind. I love science but this physics stuff sounds ridiculous!

Biologists

"I am a biologist."

Mathematicians

They slapped my back and said admiringly, in

Zane

BLACKER

D is for... by Scott Adams

("cept they're all old
and I messed them up)



SPORTS

Women Hoopsters Open With a Win

by Angie Marie Bealko

Not since the likes of Magic, Doctor J, and Larry graced the courts with their presence has a team consisted of so much pure raw power and finesse as the Women's Basketball Team does. OK, maybe not. But at least we give away free stuff.

Not to mention the fact that WE WON! Believe it or not, the team is undefeated and running high on an exhilarating win this past Tuesday night against Pacific Christian.

The Lady Beavers led throughout the entire hoop match. Towards the end of the contest the Beavers' lead was cut to a mere point, but they quickly retaliated and pulled out the win at home. Senior co-captain Sharon Grelecki proved to be a force on the boards as did her fellow co-captain junior Angie Bealko. Grelecki protected the Beaver's basket as the center of the defense for most of the game and used her brute strength to topple a Pacific Christian player fighting for a board. Just call her Shaq. Sophomore Ellis "freethrow fireball" Meng managed to push her way to the basket and grab at least half a dozen opportunities to shoot at the line. Meng also swiped her fair share of boards. Freshman Irene "Speed Queen" Wong kept the Pacific Christian guards hopping the whole game. Her fists of fury managed to pick the ball out of a few hands of bewildered opponents. The other freshman starter Lori "Lightfoot" Hsu switched off at point with Wong. Hsu pushed

the ball up the court for the Beavers at a feverish pace enabling the team to convert on a few fast breaks. Hsu also managed to sneak under the basket secretly to catch a few passes from Bealko for easy lay-ups. As usual "the Hammer" Bealko intimidated her opponents by flattening a few unsuspected victims. Bealko led the team with 17 points, stealing once for a coast to coast drive and even out rebounding three opponents for an easy two on her own freethrow attempts. Senior Heather "the Dribble" Gibble and Junior Amy "Air" Quan added to the strength of the guard spots and helped pressure on defense. Freshman Katie "Sharpshooter" Stofer and Lily "Flower Power" Chang rounded out the Beaver line-up playing some minutes as forwards. Chang made her presence felt by dishing out four fouls and letting the PC players know that the Beavers weren't going to be pushed around. Stofer hustled up and down the court proving that (despite the rumors) Texans really can play ball.

The Beavers' last home game was yesterday, Thursday. If they won, they're undefeated.... if they lost, they're 500. Not bad for a Caltech team, and the first women's basketball team ever at Caltech!! They never could have pulled off their 46-41 win without all off the cheering from the rowdy fans. Thank you all for your support! The screaming, the wave, and the encouragement are all more than appreciated.

Caltech Bike Race a Comedy of Errors

by Michael Kantner

On November 20, 6 Techers competed in the UCLA mountain bike race at Lake Castaic. Caltech had a strong showing, with two top ten finishers and a team placing of 4th.

The course was difficult, with 3 steep climbs followed by technical descents spread over 4 miles. Michael Kantner placed fourth in the Men's A race. On the first lap, he fell twice. The first fall was caused by mechanical problems, which plagued him for the rest of the race. The second fall occurred on the descent at the end of the lap. For the next 3 laps, he raced very conservatively, eventually moving into fourth.

Caltech had similar luck in the Men's B race. Mark Sorensen was racing very well, but lost his water bottle on a rocky descent. Though leading the race he withdrew due to lack of water and the effects of the Page party, the night before. Mark Milam, also in the B race, finished sixth.

Paul Kim, Sam Rowels, and Dave Lynn raced in the C category. Sam finished the two lap race at 20th place with Paul close behind at 22nd. Dave had repeated mechanical problems and could not finish the race.

Team Placings (top 5):

- | | |
|--------------------|-----|
| 1. UCLA | 121 |
| 2. Cal Poly Pomona | 112 |
| 3. UC Riverside | 92 |
| 4. Caltech | 28 |
| 5. Cal Poly SLO | 17 |

For more information on collegiate cycling, contact Michael Kantner at x4882 or cycling@cco. One day racing licenses are available, and there are races for all skill levels.

SPACE

FROM PAGE 1

The Sky Is Falling!

Watch out! Earth will be bombarded on these dates by celestial debris.

December 12-15, 1994:

Gemini's Meteor Shower

December 21-23, 1994: Ursids

Meteor Shower

January 3, 1995: Quadrantids

Meteor Shower

selection of a single team to develop, manufacture and test the prototype between 1996-1999.

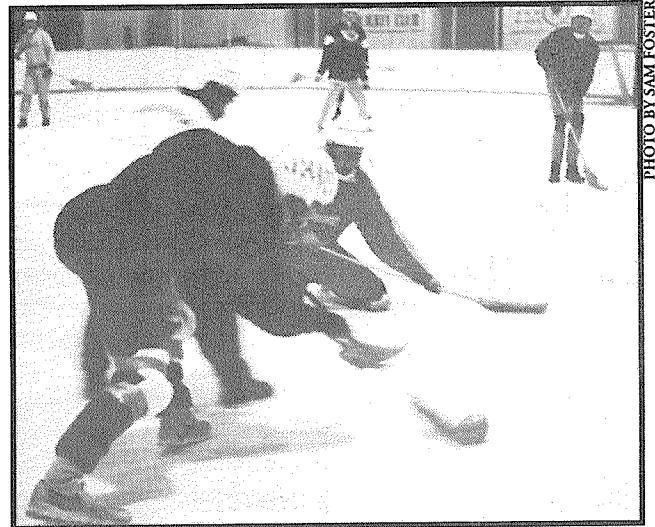
Their job will be a tough one: design a reusable aerospacecraft that requires only commercial jetliner turn-around time and meeting the national need for cheap access to space. Unlike the Space Shuttle program which was run by NASA and contracted out to dozens of private companies, this venture promises to take advantage of the best aspects of the free enterprise system while keeping cost and development time down. The fact that the corporations involved are taking a tremendous risk will spur the economic and time-related aspects of this vehicle.

Space Quote of the Week:

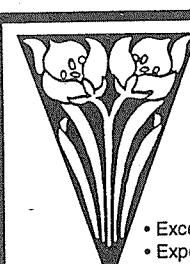
"Some people ask why NASA spends money in space. We don't. We spend it all on Earth — and in the United States. The one percent of the federal budget — and one-quarter of one percent of the GNP — we invest in NASA is a vital investment in our nation's competitiveness."

— Daniel S. Goldin, NASA Administrator

If you would like more information about CSS or its activities, email us at css@cco.caltech.edu or call 568-8028



Blacker's Jesse Rosenstock and ^{Brian} Dave Bacon battle the Rudds for control at the Bocce Bonecrusher Broomball competition. Note the lack of goalie.



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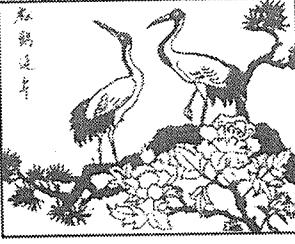
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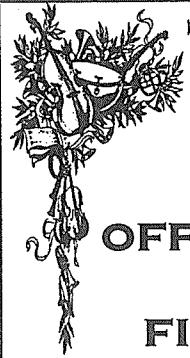
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INTEROFFICE MEMORANDUM CALIFORNIA INSTITUTE OF TECHNOLOGY Division of Geological & Planetary Sciences

TO: The Academic Policy Committee DATE: May 11, 1993

FROM: The Undergraduate Sub-Committee (Ed Etzkorn, Nathan Frei, Heath Hunnicutt, Joe Kirschvink, Antonio Rangel, & Jennifer Tritschuh)

SUBJECT: Recommendations Concerning Academic policies & Grading

The following proposed changes to academic policies concerning grades & grading were discussed thoroughly by our Committee, and we feel reflect the desires of a substantial cross-section of the undergraduates. These policies can be implemented under any format of restructured classes for the Core Curriculum. (They are also ranked in order of importance to the sub-committee.)

(1) Faculty should have no control over whether students decide to take their classes on a Pass/Fail basis rather than for grades. This decision should be made strictly between a student and the Registrar's computer, with no faculty veto. The P/F change will wipe out all official record of the actual letter grade turned in by the instructor, so that grade information for a class for which the student has used the P/F option will not be made available to anyone outside of Caltech. Many faculty are blatantly violating the present P/F guidelines as stated in the catalog by altering their definition of a Pass. The sub-Committee feels that only this approach will halt this abuse on the part of the Faculty.

(2) The Registrar's office should provide an expanded, computer-generated copy a student's transcript which includes accurate information concerning the course description and instructor. The present transcript system is out of date and woefully inadequate. Ma 1, for example, is listed on Caltech transcripts as Freshman Mathematics, and is interpreted at most other institutions as something like an introduction to algebra. All of the information necessary to print a better-formatted transcript is already on computer file, so this should not be an onerous task to implement.

Although the following section was determined to not be possible for funding reasons, it was in the original report and has been left in for completeness:

(3) The sub-committee endorsed the proposal that SURF students be allowed to earn research credit with Faculty sponsors during the summer term, in addition to receiving their stipend. Separate memos to this effect are attached, and the proposal is under review by other committees and the SURF Administrative Committee. A SURF is not simply work-for-pay, and should be treated under the rules guiding any other scholarship or fellowship. If research is an important component of the undergraduate education at Caltech, it is appropriate for it to be recognized in a more formal, academic fashion.

(4) Remove all restrictions on which classes can be taken P/F, including those in the core and those specifically required for graduation within an option. This should ease the complaints of the humanities Faculty in particular, and will encourage students to take a more diverse spectrum of classes.

(5) Create a new 'Pass/Fail day' at the end of Finals week for each term, at which time the selection for the elective pass/fail class should be made. Many classes are graded on a one-shot basis (final exams, term papers or projects, etc.). Hence, students are usually not in a position to make an informed decision by Drop Day. Moving the Pass/Fail decision to the end of the term (but before final class grades are known) would also tend to keep students motivated, as they would not know precisely which, if any, of their graded classes would be made Pass/Fail.

Discussion item (not ranked by committee): There should be more flexibility in the formal course requirements for graduation. Caltech is a unique institution, attracting some of the most talented and creative students in the world. Hence, the academic policies need to have a flexibility commensurate with the unique nature of our students and our Institution. At USC, any member of the Faculty can waive course requirements unilaterally in any field for a student advisee; however, this seems rather extreme and open to abuse. A more suitable approach for Caltech would be to allow two members of the faculty within any one Division to waive a specific requirement for one of their Division's classes by simply sending a note to the Registrar. Ideally, one of the two faculty would include the appropriate Academic or Executive Officer for the option involved. This would simplify the procedure for talented students, particularly in the Physics, Math, and Chemistry core classes.

Recommended Changes for the Caltech Catalog:

(Bold text indicates the changed portions, {text like this shows portions which we recommend be deleted})

P. 31 - 33 the 'Grades & Grading' section:

P. 31, line 11: ... In any situation in which no grade is reported, {the grade shall be assumed to be F} the grade shall remain blank until acted on by the Instructor. ...

Page 33, bullet #2: "All other students, undergraduate and graduate, in courses with numbers under 200 will receive letter grades unless the course is designated "graded pass/fail" or unless {when it is allowed;} the student files with the Office of the Registrar a completed Pass/Fail Course Selection Card {not later than the last day for dropping courses} by the last day of the term."

Page 33, bullet #6: "Any instructor may, at his or her discretion, specify prior to preregistration that his or her course {if not classified by the above regulations, is to be graded on a "letter grades only" basis or} is to be graded pass/fail only {subject to possible review by the responsible option}. The Registrar {must} should be notified of such specification two weeks before the beginning of preregistration.

Page 33, bullet #7. "Each term any student may select {subject to such requirements as may be imposed by the option} one {elective} course in which he or she is to be graded on a pass/fail basis {if it is not designated as "letter grades only" and is not specifically required for the degree in his or her option}. To make this election, a completed Pass/Fail Course Selection card must be submitted to the Office of the Registrar on or before {the last day for dropping courses that term} the last day of the term." This election may be reversed or reinstated by the student at any time before the deadline. {The election must be approved and the card signed by the student's advisor. The instructor must be notified and should sign the card to indicate that this has been done; the instructor must allow any eligible student to make this election.} Approval by the Instructor of the course, the student's Academic advisor, or the Registrar is not necessary for this selection. The grade which has been converted to pass/fail will be for internal Caltech use only and will not appear on any official transcript, nor will it be included in calculation of the student's grade point average.

To fully implement the suggestion removing constraints on the Pass/Fail system, the following option requirements should also be modified:

p. 110 - At the bottom of the Applied Physics Option, item #6, delete the sentence which states {None of the courses taken to satisfy option requirements may be taken on a Pass/Fail basis.}

p. 118 - In the 4th paragraph of the Chemistry Option, delete the sentence which reads, {Undergraduates in the chemistry option must take chemistry courses below the 100 level with a letter grade, with the exception of the following courses which are offered only on a pass/fail basis: Ch 1, Ch 3a, Ch 90, and, if taken during the freshman year, Ch 4ab, Ch 21abc, and Ch 41abc.}

p. 118 - In the Chemistry option requirement #3, delete the phrase {taken for a letter grade}.

p. 126 - In the engineering & applied science option requirements, item #2, delete the sentence {Neither sequence of courses may be taken pass/fail}, and #3, delete {Note that the student cannot exercise the pass/fail option on any courses offered to meet this requirement.}

p. 139 - In the Physics option requirements, item #7, delete the sentence {The student cannot exercise a pass/fail option for any courses offered to meet this requirement.}

CORE

FROM PAGE 1

desirable.

Though when the Task Force was created every assurance was given that the student input gathered would be taken into consideration, the Task Force has not had the same responsiveness to the students that its predecessor did. The Academic Policies Committee's reports were not even distributed to the Task Force's members until mid November of this year. When this extreme delay was called into question, the explanation given for not distributing the documents was that the Task Force was not specifically charged by the Faculty Board to take the Academic Policies Committee's findings or student opinion into account.

Other problems have been experienced as well. Several faculty members of the Task Force are felt to have their own agendas and to not seem to be interested in hearing student opinion. Additionally, the student members of the Task Force are given little voice and there have even been cases of student representatives not being notified of meetings.

Few Caltech policies have as much direct impact on the entire undergraduate population as those concerning the core curriculum. Because of this, students have every right to have a strong involvement in the decision making process. Furthermore any attempt to set policy on this issue is crippled without the insight of undergraduates. No one but the undergraduates have actually taken the core classes. Only the students have directly experienced the results of the policies that these committees debate. To minimize the influence of students is a grave error about which we are deeply concerned.

The box on the left contains the original recommendations made by the Academic Policy Committee. A complete copy of student opinions recorded can be obtained from any house president and will be posted to *caltech.acit*.


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SURVEY

FROM PAGE 1

December the surveys will be sent in to Southern Illinois University, where the survey was developed and where aggregate data are kept. An approximately 300-page analysis will be returned to each participating school by the end of January. Each school will receive its own data and the overall data.

The five colleges, Fuller Theological Seminary, the Art Center College of Design, Pasadena City College, Pacific Oaks College, and Caltech, received a two-year grant from FIPSE (Funding for the Improvement of Post-Secondary Education) to pursue two goals: first, to obtain a database by doing the survey now; and second, to evaluate the effectiveness of programs and services currently provided. In pursuance of the second objective, a consultant will visit Caltech for two half-days to explore ways of improving substance abuse services. Also, the survey will be re-administered in two years to see if anything has changed.

The survey is called the "Core Alcohol and Drug Survey - Long Form." It was developed through a grant from FIPSE and has had its reliability and validity tested for six years. It is very popular and is used

nationwide.

At Caltech, the survey was distributed anonymously by mail to 600 undergraduates. There has been a 50% return rate, the highest among the five schools. Surveys will continue to be accepted until mid-December. The results will be used to help provide services and educational programs for the entire campus. "This survey will allow for a more accurate perspective of the use of sub-

stances within the Caltech community and what services to provide," said Dinah Lee Schaller, Drug and Alcohol Abuse Prevention Coordinator. Results will be used by Schaller to promote awareness of drug- and alcohol-related issues. The raw data and results will not be publicly available.

Questions on the survey ranged from background information (e.g., age, sex) to drug and alcohol use

questions (e.g., "Average # of drinks you consume a week"; "During the past 30 days, on how many days did you have alcohol?" "...tobacco?" "...marijuana?") to attitudes toward drugs and alcohol (e.g., "Do you believe that alcohol has the following effects? — Breaks the ice, Enhances social activity, etc.").

Since this is a general, nationally distributed survey, some of the questions do not really apply to

Caltech. For example: "On this campus, drinking is a central part in the social life of the following groups (y/n): Fraternities; Sororities; etc." Also, many students found question 19 confusing: "How often do you think the average student on your campus uses...tobacco, alcohol, marijuana, etc." Any comments returned with the survey will be forwarded to the researchers at Southern Illinois University who developed it.

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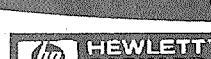
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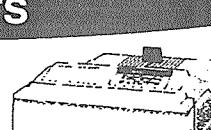
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Notices

Mentors are needed for a Pasadena Unified School District Partnership Program. Each mentor meets with a high-school student about once a month to discuss school work, college applications, and such. The two might meet for lunch, for example. JPL participates in the program, as do adults from Caltech and throughout the community. The organizers are particularly in need of female mentors to match with the female students. To learn more about the program, please come to an informal lunch time meeting with Pasadena Partnership Coordinator Alma Dillard. The meeting is on Tuesday, December 6, in the Caltech Y lounge, on the second floor of the Winnett Center, from 12:15 to 1:15 p.m. Bring a lunch, if you'd like. This is the time slot when Open Line normally meets, and we're hoping that members of this group will join us at the mentorship meeting. Any interested people who can't attend or would like more information can call Alma Dillard at 568-4549 or Hillary Bhaskaran at ext. 6624.

The 6th Annual Posada Walk for AIDS Assistance will be held in Pasadena on Saturday, December 3rd from 5:00-6:30 p.m. This fundraising Candlewalk will benefit people living with AIDS and to remember those who have died with AIDS. The walk is 1.5 miles and will feature performing groups and other entertainment. To register to walk in the Posada, or for further information call 800/2-POSADA, or meet on the third at 4:30 p.m. in the Y lounge.

Care to Tango? Every Tuesday in December there will be tango classes held in Dabney Lounge sponsored by the Caltech Folk Dancers. No experience or partner is necessary, and everyone is welcome! Classes begin at 7:30 p.m. Call (818) 797-5157 for more information.

For the last several years, the Human Resources Department has "adopted" needy Pasadena families in lieu of a gift exchange among ourselves. Providing toys, food, and clothing for those who would otherwise not be able to celebrate has been very rewarding for us all. We have received several inquiries about how other departments of individuals could participate this year. If you would like information about adopting a person or family, you may call Veronica Kirton at x6374.

Goodwill Industries of Southern California is seeking male and female volunteers to model authentic antique fashions that date as far back as the 1860's. The style shows are held at major hotels, country clubs, and churches to benefit the non-profit Goodwill, which provides rehabilitation and job training and placement for people with physical and mental disabilities and/or social disadvantages. Shows are held weekdays as well as weekends. Goodwill is seeking models between the ages of 18 to 70 years, so please contact Beryl Panza or Cathy Hoyt at (213) 223-1211 Ext 229 or 230 for more information.

The Caltech Muslim Student Association will hold Muslim Friday Prayers weekly in the Y-lounge at 12:40 p.m.

"Take a Break and Spend Some Time with Friends." The office of the International Student Programs would like to invite you to our Open House for coffee, tea and conversation. Every Wednesday from 4:00 p.m. - 5:30 p.m. at the office of International Student Programs, Olive Walk. Open to the entire Caltech community.

If you don't do well on your finals next week, I personally will be very disappointed with you and may even call your Mommy. No dummies will be awarded point values.

From the Counseling Center

The Gay, Lesbian and Bisexual Support Group meets the first and third Tuesdays of each month at 7:30 p.m. in the Health Center Lounge. This confidential meeting is open to all Caltech community members looking for a supportive context in which to address questions and concerns about sexual orientation — including coming out, being out, self-discovery, coping with families... We begin with a focus topic but move to whatever is feeling most relevant to the group that night. Refreshments are served. For information, please call 395-8331.

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Events and Notices

♦ denotes a new announcement.

Auditorium at 8 p.m. on Saturday, December 3rd. Dancers Teodoro and Isabel Morca are joined by two musicians in "Flamenco in Concert." In celebration of Teodoro's sixtieth birthday, a variety of renowned flamenco dancers, guitarists, and singers will join in the finale. Admission prices range between \$22.00 to \$16.00, though student tickets are only \$8.00, beginning one-half hour before performance. For more information, please call x4652.

The Friends of Caltech Libraries (FOCAL) Annual Dinner will feature James Thorpe, former director of the Huntington Library and Art Gallery, and author of "Henry Edwards Huntington: A Biography" on Thursday, December 15, 1994 in the Athenaeum; 6:00 Social Hour, 7:00 Dinner. Admission is \$55.00 for the general public and \$45 for FOCAL members. Call x6411 for reservations (must be made and paid for by Friday, December 9th).

Free Tickets and Stuff

The Caltech Men's and Women's Glee Clubs and the Caltech Chamber Singers will present their annual Holiday Concert on Friday and Saturday, December 2nd and 3rd in Caltech's Dabney Lounge. Featured works include: Daniel Pinkham's "Christmas Cantata" performed by the combined Glee Clubs and accompanied by brass choir; the Men's Glee Club sings Conrad Susa's "Carols and Lullabies;" and the Women's Glee Club a carol sequence by Walter Mathias entitled "Salvator Mundi." The Chamber Singers will add traditional carols to this holiday mix. The concert is free and open to the public. Call extension x4652 for more information.

Caltech's 3rd annual Messiah Sing-Along with Conductor Dr. Donald Caldwell and orchestra will be held on Friday, December 9th from noon to 1:00 p.m. in the Dabney Lounge. Scored will be provided, or bring your own. A reception will follow.

Dr. Donald Yeoman of the Jet Propulsion Laboratory will present a E.C. Watson Caltech Lecture entitled "Cosmic Collisions and Near-Earth Objects" in the Beckman Auditorium on Wednesday, December 7th at 8 p.m. Admission is free; please call x4652 for more information.

Club Announcements

The Caltech Swedish Club will meet at 3pm on Sunday the 11th of December, at 204 S. Holliston Ave. apt 11, to celebrate Lucia. Anyone interested in Scandinavian culture or in speaking Swedish is welcome. For more information, please call Lena Peterson at 683-9102 (or email lena@pcmp.org) or Rustan or India Leino at 584-7162 (or email rustan@ccs.caltech.edu).

The Caltech Ballroom Dancing Club meets every Thursday at 7 p.m. in Dabney Lounge for a 90-minute ballroom dance lesson. No previous dance experience is required for this free class. Experienced dancers meet every Sunday at 1:30 p.m. in Winnett Lounge for a two-hour intermediate ballroom dance lesson. For further information, please send e-mail to rberman@arms.gps.caltech.edu.

Internships and Competitions

Applications are now being accepted for the 1995 Miss California Teen All-American Pageant to be staged on January 7th and 8th at the Holiday Inn Plaza Park in Visalia. The 1995 event is the Official Preliminary to Miss Teen All American staged annually in Florida. All judging is on the basis of poise, personal interview and beauty of face and figure. Applicants who qualify must be ages thirteen to nineteen as of August 1st. To apply, send a recent photo along with your name, address, telephone number and date of birth by fax to (304) 242-8341, or mail to: Dept. F-Miss California Teen All American, 603 Schrader Avenue, Wheeling, WV 26003-9619. Prizes include a personal appearance contract, cash, jewelry, luggage, and a FURI Deadline: November 25th.

The University of Texas at Houston has created a Summer Research Program for students interested in pursuing a graduate degree in the biomedical sciences. Students will gain hands-on experience in the

areas of biomedical research under the supervision of faculty sponsors of their choices. Specialized training is available in laboratory and radiation safety, research technology, and biomedical ethics. Students will write research abstracts which will be published in the annual *UT-H Summer Research Abstracts* book. All student must be enrolled in any accredited U.S. college or university during 1995. Students are responsible for travel and living expenses, but will receive a \$2,000 abstract. All applications are due by February 24, 1995. For more information or an application, please call extension x1545.

Sao Summer Internship Program 1995 Applications are invited from undergraduates to participate in the Smithsonian Astrophysical Observatory Summer Intern Program at the Harvard-Smithsonian Center for Astrophysics in Cambridge, Massachusetts. We anticipate that twelve positions will be offered during the summer of 1995. Research opportunities exist in all areas of astrophysics from planetary science to cosmology including theory, observation, data analysis, instrumentation and laboratory astrophysics. The program will provide students with the opportunity to use telescopes at the Oak Ridge Observatory and to present a paper at a scientific meeting. The Intern Program begins June 12th and ends August 18th, 1995. The stipend will be \$250 per week, and housing/travel will be subsidized. Applicants must be US citizens (or hold a valid green card) currently enrolled in a program leading to a bachelor's degree. Graduating seniors are not eligible. For more information email to: IN%6kdow@corwin.harvard.edu.

The 1995 Elie Wiesel Prize in Ethics Essay Contest, with awards totaling \$10,000, is now open to junior and senior undergraduates who are enrolled full-time at an accredited college or university in the United States. The deadline for submitting an original 3,000-4,000 word essay is January 13, 1995. The theme for this year is: "Creating an Ethical Society: Personal Responsibility and the Common Good." For entry forms and guidelines contact: The Elie Wiesel Foundation for Humanity, 1177 Avenue of the Americas, 36th Floor, New York, New York 10036. Phone: (212) 221-1100.

Fellowships and Scholarships

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

The American Concrete Institute (ACI) is offering several awards. The Peter D. Courtois Concrete Construction Scholarships are two \$1000 awards for undergraduate study in concrete construction for the 1995-96 academic year. Eligible students must be enrolled at least half-time and must be seniors in 1995-96. The application, available at the Financial Aid Office, with all required supporting documents is due January 10, 1995.

The Association of State Dam Safety Officials, Inc. announces its 1995 Dam Safety Scholarship Program. Applicants must be juniors or seniors in 1995-96, and must demonstrate an interest in pursuing a career in hydraulics, hydrology, or geotechnical disciplines, or in another discipline related to design, construction, and operation of dams. Applicants must also have a cumulative GPA of 3.0 or above. Applications are available at the Financial Aid Office, and must be received by ASDSO no later than January 17, 1994.

The Korean American Scholarship Foundation, Western Region, is offering two scholarships of \$10,000 each or four scholarships of \$5,000 each, and more than twenty scholarships of \$1,000 or higher to full-time students of Korean-American heritage. Applicants must be at least second year undergraduates, or graduate students. To receive an application, write to: Scholarship Committee, KASF Western Region, 400 Bridge View Drive, Anaheim, California 92808. Completed applications are due January 31, 1995.

The College Women's Club of Pasadena Scholarships Foundation is awarding scholarships and fellowships of at least \$1,500 for the 1995-96 academic

year. Applicants must be at least second year undergraduates or graduate students who will be enrolled full-time in 1995-96 and have at least a 3.0 GPA. Completed applications and all supporting documents must be submitted to the Financial Aid Office no later than February 9, 1995.

The Chinese-American Educational Foundation is offering scholarships to graduate and undergraduate students of Chinese descent. All applicants must be full-time students in 1995-96 and have at least a 3.0 GPA, and undergraduates must have completed at least one year of study. Completed applications must be received by April 10, 1995.

The Association of Former Intelligence Officers San Diego Chapter 1 announces the establishment and offering of the Annual Lieutenant General Eugene F. Tighe, Jr., USAF Memorial Scholarship. The scholarship is in the amount of \$1000. It will be awarded based on the judged quality and suitability of a 1,000-1,500 word essay on the topic of: "What role should the United States Government's Intelligence Community play in supporting American business interests worldwide?" Completed applications/essays must be postmarked no later than December 15, 1994.

Glamour Magazine announces its 1995 Top Ten College Women Competition. Scholarships are in the amount of \$1000. Winners also receive national recognition in Glamour's October 1995 issue, and the opportunity to meet with top professionals in their fields. Women who are full-time juniors for the 1994-95 academic year are eligible to apply. Applications are due January 31, 1994.

The National Academy for Nuclear Training announces its Scholarship Program Competition. Academy scholarships are awarded on the basis of merit to students with a demonstrated interest in, and potential for, a career in the nuclear power industry. Approximately 125 awards of \$2,250 each will be made to students who are currently pursuing a bachelor's degree in nuclear engineering, power generation health physics, or a nuclear/power option in a discipline such as chemical engineering, electrical engineering, or mechanical engineering. Application materials must be postmarked no later than February 1, 1995.

The American Scandinavian Foundation of Los Angeles (ASF/LA) is awarding four \$1,000 scholarships to undergraduate and graduate students with a demonstrated interest in Scandinavia. Applicants must have strong academic qualifications and must show financial need. Two letters of recommendation, appropriate transcripts, and the completed application are due by March 15, 1995.

The American Electropolishers and Surface Finishers Society is offering scholarships to upper class undergraduate and graduate students who are interested in careers in the surface finishing field. This includes those majoring in the fields of Chemistry, Chemical Engineering, Environmental Engineering, Materials Science, Materials Engineering, Metallurgy, or Metallurgical Engineering. Applications and all requested documents must be postmarked by April 15, 1994.

Please contact Lauren Stoler, Fellowship Advisor for information on any of the awards of programs listed below at extension x2150 or e-mail at Lauren_Stoler@starbase1.caltech.edu or contact the person or organization indicated.

The Rotary Scholarship allows students to study abroad after graduation in any country having a Rotary Club for one academic year. Students must speak

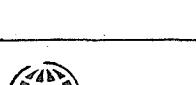
the language of the country. This is a great opportunity to live abroad with all expenses and travel fund paid. You can study in your major or in some other field that interests you and in which you have a good background. Juniors and seniors who apply now will be able to go abroad in fall of 1996. Therefore, it is advantageous to apply as a junior if you wish to go abroad immediately after you graduate. Find out more by attending a Rotary Scholarship Information Meeting and Pizza Lunch on Monday, December 5th at 12 noon in Winnett Lounge, Caltech x6330 by Thursday, December 3 to let us know you will come. Please note that U.S. citizens and international students may apply. Applicants who have an immediate family member in the Rotary Club or whose parents work for the Rotary may apply.

Tau Beta Pi, the national engineering honor society is offering fellowships in the amount of \$7500 to use in graduate studies which advance the interest of the engineering profession. Applications are welcome from all members of Tau Beta Pi, both students and those already graduated. Students who will be initiated by March 1, 1995 are also eligible to apply. The fellowship committee looks for high scholarship, strong faculty recommendations (two are required), definite extracurricular contributions, unusual promise of substantial achievement through a definite plan or purpose, and a program through which accomplishment will advance the interest of the engineering profession. Interested students should contact Joe Lee at extension 1420 or through e-mail (jplee@ccs). Applications must be postmarked on or before January 17, 1995.

The James Madison Memorial Fellowship Foundation has at least one \$24,000 fellowship available in California for master's level graduate study of the framing, principles, and history of the Constitution by current and prospective secondary school teachers of American history, American government, and social studies. The fellowships are available to U.S. Citizens or permanent residents who are either college seniors or master's level graduate students and are pursuing one of the following degrees: MA in American history or political science; MA in teaching history or political science; or a related master's degree in education that permits a concentration in American history, American government, or social studies. For additional requirements and for information on how to apply, come to the financial aid office, or write to the James Madison Fellowship Program, P.O. Box 4030, 2201 North Dodge Street, Iowa City, IA 52243-4030. Completed application must be received by March 1, 1995.

The James Madison Fellowship has also begun to provide graduate school funding for outstanding college seniors or college graduates without teaching experience who intend to become secondary school teachers of American history, government, or social studies for grades 7-12. Applicants may study for a master's in American history, political science, a master's of arts in the teaching of history or political science, or a master's in education that permits concentration in the fields specified above.

The Lemelson Fellowships allow undergraduates to explore creative solutions to real-world problems; a visiting student at Hampshire College. This is a great opportunity to take a break from Caltech and receive a generous stipend/tuition at the same time. Undergraduates can go for either one semester and receive full tuition or go for a full year and receive 70% tuition. Hampshire is located in a beautiful part of Western Massachusetts near Amherst, Smith Mt. Holyoke and U. Mass Amherst. Lemelson Fellows can take courses at any of these schools. This is a wonderful way to see another part of the country, meet new people, experience weather (brrrrrrr!) and have it paid for. Jerome Lemelson, the founder of this fellowship is an independent inventor who holds more patents than any living American including patents for key components of the VCR. The deadline for the fall semester of 1995 is March 15.



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