

Vote
Early

The California Tech

Vote
Open

Volume XCVI, Number 13

Pasadena, California

Friday, January 20, 1995

Attention All Undergraduates!

On Monday, January 23, 1995 you will have the opportunity to elect a new ASCIT President and a new ASCIT Vice-President/BOC Chair. The candidates for President are Chris Marsh and Jonathan McDunn; and the candidates for VP/BOC Chair are Ricky Carson, James Honaker, Jeff Kirshberg, and Chris Walker. Each candidate has had the opportunity to submit a statement to the Tech, so look for them in this edition. In addition there will be five proposed by-law amendments and one Caltech Y referendum on the ballot, the contents of which are included in this edition as well. Any questions regarding the procedures or any other aspect of this election should contact Cedric Hobbs, Election Chairman at 568-0001 or cedricit@ugcs. Also, anyone interested in assisting the Election Chairman in ballot-counting should contact Cedric. Remember, the more votes, the better. And good luck to each of the candidates.

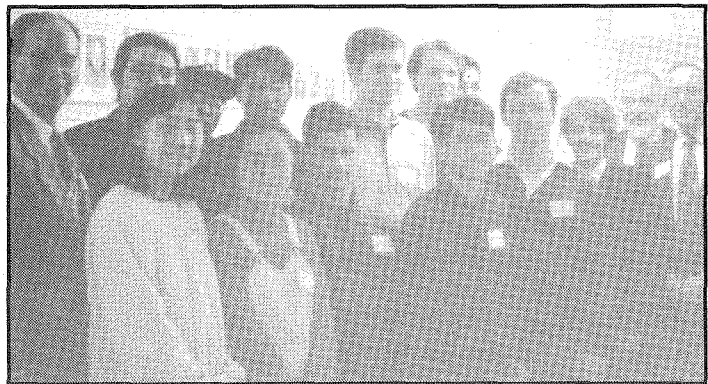
ΣE Gets New Inuctees

by Suzette Cummings

Alumni House was the setting for the initiation ceremony to honor 13 new student Associate (Student) Members of Sigma Xi, the Scientific Research Society, on Friday, January 13, 1995. The new members are John Joseph Carrasco, Jeremy Darling, Jose Hurtado, Lin Jia, Roshan Kumar, Tom Maccarone, Obie Manley, Anandi Raman, Michael Ru, Elwyn (Tim) Uy, Ken Walsh, Michael Wang, and Jian Zhang. The ceremony included Gary Lorden, Vice President for Student Affairs (Caltech chapter president), Dr. William Whitney of JPL, (chapter secretary/treasurer), Dr. Fred Shair of JPL, (past president of the Caltech chapter), and Carolyn Merkel, Director of SURF,

and Suzette Cummings, Assistant to the Dean of Students. Sigma Xi is a national honorary society of research scientists. The society has chapters in virtually all science-teaching colleges and universities in the U.S. and in many government and industrial laboratories. The Caltech chapter grants an annual prize, the Sigma Xi Award, for outstanding research. The chapter has in the past contributed funds to pay travel costs for students going to NCUR, helped undergraduate students conduct outreach programs at local schools, and has on occasion sponsored talks at Caltech by speakers from outside the Caltech community. In the future the chapter hopes to tie local Sigma Xi activities in more closely with undergraduate research at Caltech.

Congratulations to the new members of the Caltech chapter of Sigma Xi!



SAMANTHA FOSTER

As many people as we could fit into one photo. Front Row, l-r: Jian Zhang, Lin Jia, José Hurtado, Michael Wang. Back Row, l-r: Gary Lorden, J.J. Carrasco, Tim Uy, Michael Ru, Ken Walsh, Jeremy Darling, Roshan Kumar, Carolyn Merkel, Dr. Fred Shair, Dr. William Whitney.

The Undergraduate Research Opportunities Handbook (UROH) will be out the beginning of next week. You can find it in the following places: 7 House Lounges, Deans's Office, ASCIT Office, CDC. Please do not take these copies for your own. They are for the whole undergraduate community! Happy Researching!!!

—Gina Serraiocco, ASCIT Director-at-Large

Caltech Jazz Bands Bring on the Heat with Saturday Concert

by William Bing

Gregg Bissonette, a drummer who has performed with artists such as David Lee Roth, Maynard Ferguson, and Joe Satriani, will be performing in a free concert with the Caltech Jazz Bands this Saturday night in Beckman Auditorium at 8 PM. Gregg, is a clinician for the Slingerland Drum Company, and has been featured in many other recordings and publications, and has two drum videos of his own. He was one of a select group of drummers that played in a video tribute to Buddy Rich.

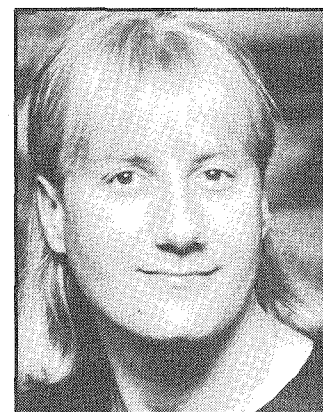
The Caltech Jazz Bands have been around for a long time; they have won first-place awards at major jazz festivals and have played for sold-out audiences at the local jazz club, "The Baked Potato". The Jazz Bands (there are two) moved their concerts to Beckman Auditorium when their audiences outgrew Ramo Auditorium. The bands are directed by William Bing, who has been teaching at Caltech for 20 years. Bill, along with his wife Delores, who directs the Chamber Music program, were recipients of the 16th Annual ASCIT teaching award. The bands and their concerts are sponsored by Caltech's Office of Student Affairs. They recently released their first CD,

Exothermic Jazz, which is available at the Caltech Bookstore, Tower Records, and Poobah Records in Pasadena.

The guest soloist on the CD is vocalist Angie Whitney, who has sung with the band on many recordings, and was a natural for the job. She sings on three of the cuts, and has received many compliments on her performances, especially her rendition of the standard "Stormy Weather". She also sings a mean blues.

The CD also features four world-premiere recordings. Three of these premiers were written by Joe Curiale, a composer for many well known artists, including Michael Jackson and Kenny G. Joe is also a former writer for the Tonight Show Orchestra, and recently donated his entire big band library to Caltech. There are many students featured on the CD as well. Phil Sutton plays a beautiful version of Gershwin's "Someone to Watch Over Me", and Ken Lee, Jeff Bramel, Rustan Leino, James Dooley, Tom Lloyd, Missy Richmond, Marc Hillmeyer, Susan Paulsen, Erik Daniel, Jean-Paul Davis, and Gary Leskowitz are featured as well. However, it is the total effort of everyone in the bands that makes the CD such a success.

The project has been in the mak-



FILE PHOTO

Drummer Gregg Bissonette will accompany the Caltech Jazz Band in tomorrow's concert.

ing for a long time. The Jazz Bands recorded at Kingsound Studios, a state-of-the-art sound studio in North Hollywood, over a two day period. The sound engineer, Eddie King, produced the digital masters with a 36-track mixboard. Some of the members had been to the studio before to record informally, but no one had had any experience recording a CD. The session went well; most of the recordings were completed with only a few "passes" at each piece, and one of the recordings was done in one take —no cuts.

The CD has been selling well, and the band hopes to sell out so they can record another one.

Perpall Speaking Competition Held

by Wei-Hwa Huang

The Doris S. Perpall Speaking competition was held on Wednesday, January 11 in Beckman Institute Auditorium. Over 30 faculty, staff, and student members attended as the "creme de la creme" of the Summer Undergraduate Research Fellowship (SURF) Honorees demonstrated their communication skills.

The Perpall competition was initiated by alumnus Bob Perpall in memory of his wife Doris. Bob Perpall is an active member of the SURF board and created the Awards as incentive for students to give excellent presentations on SURF Seminar Day.

Approximately 200 students were demonstrating the culmination of their summer's work back in October on SURF Seminar Day. Session chairs and judges selected the most excellent speaker from each of the 19 simultaneous sessions, and twenty students were invited to the semi-finals.

SEE PERPALL, PAGE 8

Head of Technology Transfer Plans Aggressive Changes

by Mason A. Porter

Recently, Larry Gilbert took over as Caltech's Head of Technology Transfer. He has been involved in university technology transfer for about twenty-five years. His career began with a ten year association with MIT. He was at Boston University until two weeks ago, having been a "80% employee" there since 1987. While working at Boston University, Gilbert also served as a consultant for other universities. From the second half of 1976 until 1987, he was a consultant for various universities, including Boston University. Caltech first contacted Gilbert in March of 1994. He was interviewed in early June and was offered the job in August.

Gilbert has been very active over

the past ten years. He has helped start up many different companies that experienced widely varying degrees of success. Some, such as Summit Technology, have succeeded phenomenally and are now traded public on the NASDAQ market system. He predicts that some others will soon follow this course. Gilbert emphasized when I interviewed him that he was involved only in the "incubator stage" of these companies. He would help organize the companies and continue active involvement with them until they reached solvency. He would then "step out of the picture." Gilbert estimates that he has started more than twenty companies in the last decade.

Though the "Head of Technology Transfer" title is new, Gilbert has been in the position for a long time. He has helped start up many different companies that experienced widely varying degrees of success. Some, such as Summit Technology, have succeeded phenomenally and are now traded public on the NASDAQ market system. He predicts that some others will soon follow this course. Gilbert emphasized when I interviewed him that he was involved only in the "incubator stage" of these companies. He would help organize the companies and continue active involvement with them until they reached solvency. He would then "step out of the picture." Gilbert estimates that he has started more than twenty companies in the last decade.

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Opinion: What to do About Double Majors?

by Flora Ho

As ASCIT Director for Academic Affairs, I would like to bring to the attention of Tech readers an academics-related controversy that arose last week: Should double majors be allowed to count courses cross-listed in different divisions toward both majors? Overtly this may seem to be an issue which affects only a small subset of undergraduates, but because it arises from ambiguities in both the Caltech Catalog and conveyances by the Registrar, it is an issue which could well concern all undergrads.

A group of seniors who had believed that they would be graduating with a double degree (primarily Bi/Ch, but also Ph/Ma and Ph/CS, among others) are suddenly finding themselves faced with either dropping one major or taking additional courses beyond what the Catalog defines as necessary for fulfilling the requirements for a given option. Not only does the Catalog not prohibit using cross-listed courses (such as Bi/Ch110abc, which is a specific course required for Bi majors as well as an elective falling under the Chem department's "upper-division" requirement) to fulfill the requirements for both options, double-majors were not told at any time that, traditionally, cross-listed courses may be counted towards only one option (for ease of discussion, we'll call this the "one-shot" rule). An adviser who is aware of a student's plans to double-major should be aware of this stipulation, but more often are not (in this particular instance, none of the students involved were informed of the one-shot rule by their advisers).

Perhaps the most disturbing aspect of this issue is that these seniors were explicitly told by the Registrar in their first term exit interviews that cross-listed courses (specifically, Bi/Ch110abc) did indeed count towards

fulfilling requirements in both options. As far as students could discern, it was not until last Wednesday that a disgruntled senior was told a different tale by the Registrar. Confirmation arrived from the Chemistry Option Representative, and a number of seniors who had believed they were only a course or two away from a double major, now found themselves at least four short.

Granted, the reasoning behind prohibiting cross-listed courses to effectively count double is valid: To be truly considered a "Chemist", for example, it seems reasonable enough to expect you to take courses beyond just the minimum requirements listed for the Chemistry option — you shouldn't be allowed to "slide by" with a second degree in Chemistry because you are taking courses (e.g. Bi/Ch110abc) to fulfill one set of requirements (for Biology) that also "happen" to fulfill another set, for a different option. While it should not be more administratively difficult to double-major at Caltech than at any other university (aside from the level of the courses themselves), in theory neither should it be easier to major in biology/chemistry than in, say, math/humanities (divisions which don't have courses cross-listed with each other). In general, a student would need one set of courses to satisfy the requirements of an option, and a second set of courses to satisfy the requirements of an additional option. There are, nonetheless, several concomitant issues that should be addressed.

To begin with, let us assume that the reasonableness of the one-shot rule is closed to debate and focus first on the system itself. It is probable that most students do not know how the degree-granting process works, or who determines whether a student has satisfactorily fulfilled all requirements. If asked, J. Random Undergrad would probably say "the

Registrar." In the case at hand, the Registrar claimed that it was not up to her to decide whether or not cross-listed courses could count towards more than one option's requirements, deferring instead to the Option Representative. Somewhere in the process, the Curriculum Committee becomes involved as well. While students bear certain responsibilities to find out and follow the rules, if certain policies are not clearly stated in the Catalog and neither advisers nor the Registrar has the final word, students may quickly find themselves lost in the system, unsure of who actually has the authority and when they can really be certain that what they have been told is how it will be in the end.

We are not so much concerned here with the propriety of the one-shot rule itself, but with its lack of written substantiation and the inconsistent manner in which it has been presented. What are some ways to dispel the vagueness? A simple statement to the effect of "A student who plans to double-major must consult the Registrar [or the Option Representative, or his Adviser]" would suffice, if those consulted were aware of the one-shot rule and the different options' requirements. Currently, you are required to submit a petition to the Curriculum Committee before the beginning of your senior year if you plan to double major — but you may never be assigned an adviser in your second option. Ideally, the Registrar's Office (or the Curriculum Committee, whichever is the more appropriate channel) would contact the student after his petition is approved and either assign him a second adviser and require a consultation, or make it mandatory to go see the Registrar. In either scenario it is imperative that who the student gets sent to speak to regarding his requirements should be aware of all policies (whether written in the Catalog or not) which may concern him. Another possibility is to state explicitly in the Catalog that "cross-listed courses may not be used to simultaneously satisfy the requirements for more than one option".

Secondly, let us look a little more closely at the reasoning behind the one-shot rule itself. Inherent in the policy is an unsettling notion that an individual who has fulfilled all the requirements for, say, Chemistry, cannot "really" be considered a Chemist (i.e., acknowledged by the division as such) if he also happens to be a Biologist. Think of it this way. Let's say I. B. Bioman has taken all the Biology courses he needs to fulfill that option's requirements (both specific and elective), including Bi/Ch110abc; additionally, he has taken Ch112 and Ch154 to satisfy part of the Chemistry option's requirement of five upper-division courses, plus he has taken four out of the five required labs. Right now, according to what he finds in the Catalog, Bioman can count Bi/Ch110abc towards fulfilling the remainder of his Chem upper-division requirements, and so he believes he is only a lab away from two majors.

Now, in a blaze of blinding confusion, he finds that because he took Bi/Ch110 (a specifically required course) for Biology, fulfilling in the process part of a non-specific Chem requirement, he is somehow less

qualified to receive a Chemistry degree than if he had not chosen to be a Bio major and had instead taken Bi/Ch110 to specifically satisfy the Chem upper-division requirement as a Chem major. Because he chose to work towards a Biology degree simultaneously, instead of being one Chem lab away from a Chemistry degree, Bioman is now an additional three upper-division Chemistry courses away. Why is this so unsettling? — If the Chemistry department believes, as was conveyed, that

(a) there are certain "fundamental things" that every Chemist ought to know, presumably covered by the option requirements, and

(b) that a Biologist who takes all the required Chem classes nonetheless does not qualify for a Chemistry degree, then it seems that perhaps these "fundamental things" are in fact not being reflected in the basic option requirements. Consequently, Biologists end up penalized and forced to fulfill more than what is required of Chemists, to be considered a Chemistry majors.

So, to summarize — the issues here which reach beyond just those attempting double majors are the following:

1) The existence of such confusion, miscommunication, and ambiguity of policy regarding double-majoring opens up the possibility that there are other "standard" academic policies which faculty and administration accept as "the way it's always been," but about which students may be in the dark. It should not be left up to individual students to serendipity stumble upon such procedures in this hit-or-miss method, a method of disclosure which may well leave students wondering if they have really fulfilled their graduation requirements, or if the football may be snatched away at any time, a la Charlie Brown. It is particularly unfortunate if this happens late senior year, when the situation may be beyond rectifying.

2) Given the rationale behind the one-shot rule (that a cross-listed course which is counted twice does not, in essence, fully count towards one option — i.e., Bi/Ch110 is okay for Chemists, but not Biologists, to use in satisfying the Chemistry option's requirements), perhaps we should ask — Do the requirements for any given option, when satisfied, actually encompass the fundamental base of knowledge which the option deems every student graduating under that option ought to know? It may be informative to scrutinize these minimum requirements to ascertain whether the desired knowledge base is actually being established.

The ASCIT BoD is currently looking into ways to clarify the situation and rectify some of these problems by discussing them with members of the administration and bringing them to the attention of the undergraduate body. If you have any comments, concerns, or questions which you would like to bring to the attention of the BoD, please contact Flora Ho at x1432, or email fhoh@cco. We hope that the immediate situation can be resolved before Add Day, and will continue to investigate the underlying issues.

Letter to the Editor

Yo Edidtor!

I totally support zac; like absolutley. What write have you to opress us with your arbritry ruules of Grammer. And "speling" — for that mattar.

Yours. in diquist:

Dave liNey

We're sorry. What was that about oppressing you with arbitrary rules?

—eds.

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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Caltech 40-58 SAC, Pasadena, CA 91125
phone: (818) 395-6153
e-mail: editors@tech.caltech.edu
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EDITOR-IN-A-BOX Wei-Hwa Huang	PHOTOGRAPHERS Samantha Foster Stephen Van Hooser Richard Zitola
DE JURE ASSIGNMENTS EDITOR Krishna Gidwany	STAFF WRITERS Toby Bartels Zackary Berger Evan Hurowitz Michael Kantner Steven Van Hooser
TRYING TO BE ASSIGNMENTS EDITOR Yingzhong Tian	FEATURE WRITERS Jeff Goldsmith J. Random Hercfrosh Wei-Hwa Huang Lauren S&M Adam Villani
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LAYOUT EDITORS Steven Van Hooser Wei-Hwa Huang	
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SOMETHING DIFFERENT AT CALTECH

CALTECH JAZZ BANDS

SATURDAY, JANUARY 21, 1995 / 8 PM
Beckman Auditorium
FREE



Coleman Chamber Concert CHAMBER MUSIC SOCIETY OF LINCOLN CENTER

SUNDAY, JANUARY 22, 1995 / 3:30 PM
Beckman Auditorium

\$22.50 - 19.00 - 15.50 - 12.00*

Fifty free tickets are available to Caltech students at the Caltech Ticket Office on a first-come, first-served basis for this concert.

B.J. CROSBY SINGS GOSPEL

featuring members of the choir from the
FIRST A.M.E. CHURCH OF LOS ANGELES

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Beckman Auditorium

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CIT STUDENTS: \$8.00
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Phunnies

by Cheryl Hanson

Skeleton walks into a bar,
Bartender says, "What can I get you, Skeleton?"
Skeleton says "Give me a beer and a mop!"
Mushroom walks into a bar,
walks up to a girl and asks her out,
Girl says "no,"
Mushroom says "why not, I'm a fungi!"
Lemur walks into a bar,
bartender charges him \$10 for a beer, cause
he's a LEMUR, he wouldn't know the difference.
Bartender says, "We don't get too many lemurs in here"
Lemur says "At these prices, I'm not surprised."
Did you hear they are opening a new
restaurant on the moon?
Great food, no atmosphere.
How do you keep a dog from barking in the front seat?
Put him in the back seat.
Have you heard about the new corduroy pillows?
They're making headlines!
Send your worst Phunnies to editors@tech.

Health Week 1995

by Angie Marie Bealko

Feeling sick? Feeling tired? Feeling stressed? Well then take some time out of your busy week to wipe away your worries and see what's up for health week! It's all free and it's guaranteed to work wonders no matter what may be ailing you. It all starts on JANUARY 23rd. The following programs will be offered and the entire Caltech community is welcome to attend any or all of the events.

Safety Program: Reducing the likelihood of becoming a crime victim.

Monday Jan. 23rd 12:00 - 1:00 pm Clubroom 1
Phyllis Cohen, Greg Henderson

What to do when someone you love tells you they are gay, lesbian, or bisexual.

Tuesday Jan. 24th 7:30 pm - ? Y Lounge
Aimee Ellicott, Jon Pederson, Sue Bunker

Nutrition Program: 1995 - No more dieting (brown bag lunch)

Wednesday Jan. 25th 12:00 - 1:00 pm Clubroom 1
Phyllis Cohen, Rene Klang

Eating Healthy: Learn how to eat healthy and light for the new year. SAMPLE FOOD ITEMS WILL BE SERVED!

Wednesday Jan. 25th 7:00 - 9:00 pm Winnett Lounge
Dinah Schaller, Denise Gabaldon, Denise Schafer

Noon Time Concert: Vanishing Violet

Thursday Jan. 26th 12:00 - 1:00 pm Winnett Plaza
Chris Sundberg

Self-Defense Training for Women Learn valuable tools to help keep yourself safe.

Thursday Jan. 26th 5:00 - 9:30 pm Winnett Lounge
Beverly Kenworthy, Leslie Bachian

Personal Safety Self-Defense Training for Men
TBA

Beverly Kenworthy

Women's Issues: Hormone Replacement (brown bag lunch)

Friday Jan. 27th 12:00 - 1:00 pm Women's Center Lounge
Phyllis Cohen, Kathleen Bartle-Schulweis

Health Fair

Over 30 booths from the Pasadena and Caltech Community will be featured. Such booths as blood pressure checks, earthquake preparedness information, fire safety and much more. FREE FOOD SAMPLES WILL ALSO BE AVAILABLE.

Friday Jan. 27th 12:00 - 3:00 pm Winnett Plaza
Dinah Lee Schaller

Family Night

Program for children age 2 - 12. Activities include games, face painting, and a clown. Healthy snacks will be served.

Friday Jan. 27th 5:30 - 7:30 pm Winnett Lounge
Kate Finigan, Parandeh Kia, Phyllis Cohen

Massage Demonstration by Wild Oats

Friday Jan. 27th 7:30 - 9:00 pm Braun Gym
Aerobics Room
Angie Bealko, Chris Sundberg

Chantry Flats Hike

LUNCH WILL BE PROVIDED

Saturday Jan. 28th 12:00 - 3:00 pm Sign up at Y by
JAN. 24TH. 15 SPOTS available. Angie Bealko, Chris
Sundberg, Jeff Kirshberg

Senseless Death

Enjoy the comedy stylings of this Caltech Improv group. REFRESHMENTS WILL BE SERVED

Saturday Jan. 28th 9:00 - 11:00 pm Winnett Lounge
Dinah Schaller

For more information on any specific event please contact the person(s) listed below the event or call Dinah Schaller at 395-8331.

Internet Talk

by Zackary Berger

Have you used the Internet at all? Do you know what the Internet is? Can you, in fact, pronounce the word "Internet" without passing out from the effort? Then you would have been substantially overqualified for Wednesday night's Ernest C. Watson Lecture by Dr. Roy Williams, entitled "Infinite Information on the Internet."

Williams hangs his scientific hat at Tech's Concurrent Supercomputing Facilities as a practicing compu-slimmer; in particular, said the program notes, he researches "parallel adaptive unstructured meshes and algorithms for computational fluid dynamics." His presentation, however, was not so impressively arcane—rather, it comprised a friendly, rather basic tour of those services and media available on the Internet. The talk was similar in tone to the Armchair Adventure lectures: let us see, says the lecturer to his elderly audience, what whimsy foreigners are engaging in nowadays. In this way the foreign is made less strange. And with a few jokes and wry asides, Williams performed an analogous service for those folks behind the curve of technological innovation—rendering accessible the avant-garde, emphasizing the wacky and charming over the terrifyingly new.

Indeed, while tediously elementary for all but the most infrequent computer users, Williams' talk performed an important service in emphasizing the "conventionality" of the Internet, its similarities to other long-accepted forms of communication. For far too long (the past year or two) we have been bombarded with breathless missives from the Net—take (please) Newsweek's Cyberscope, which has as its mission the heedless celebration of bandwidth waste. Such boosterism oper-

ates on the assumption that whatever's on the Net is new and therefore worthwhile. This view isn't justified, as everyone knows. (Sure, watching a frog on your Sparcstation is fun. But why not go outside and find a real frog to stare at?)

Williams, therefore, made in passing what seemed to be the most important point of his talk: that those devices recently sprung up on the Net are those which owe most to the (obsoleter?) technology of the printed book. He laid out four "paradigms" of the Internet: simple e-mail; usenet and chat systems; Telnet and ftp; and Web, Gopher, and their ilk. Of these, only Telnet and ftp are forbiddingly opaque in a way unique to the binary world—they require (relatively) obscure commands that are alien to the normal non-user.

The other elements of the Net, Williams pointed out, are in their essence not all that new. E-mail is just the regular lick-and-stick mail we grew up with, only gussied up a bit. (Those "emoticons"—:), etc.—relied on to compensate for the supposed difference of the medium are really manifestations of authorial laziness.) Chat systems rely on human beings' natural sociability (CB radio comes to mind).

Most wowed over these days is the World Wide Web. But this is based on hypertext, which in turn is an extension of textual commentary and footnoting that has been with us for hundreds if not thousands of years. If you look at any text on the Web, you can find links to servers around the world concerning hundreds of different subjects. This is something to marvel over, to an extent. But pick up any halfway decent commentary on the Bible and you will find the same: dozens of authors separated by centuries and oceans using wildly varying means of approach to the same "site," or text. ("Text" itself, a very old word, means

"weave"—a pattern of links, a structure of connections. In short, a web.)

So what Williams might have been hinting at is this: we have license, and even some responsibility, not to overestimate the newness of a medium. Dazzled by the new, we tend to shed the cautiousness that comes with respect for the established and well-exploited, a cautiousness (going by the name of technical skill) that lies behind whatever is created true and lasting. Why is TV so damn bad? Because among the initial developers of the sitcom, for instance, there was not one who had a vested interest in the preservation of the medium's integrity—it was a blank slate, you see, and so not worthy of thought. Many people act now as if the Net is perfectly new and sticky, like a piece of flypaper; anything thrown at it will adhere. And that is fairly true, at least for the moment. However—one day the Net will lose its natural, technological stickiness, and only worthy contributions will be left behind.

That is: if the Net (as gaggles of pundits are suggesting) is to be the foundation for the next millennium, those who use it and create for it should act as if they are building a foundation. In his last sentences, Williams reminded his audience that we model our electronic societies on real counterparts. The former will never be sufficiently developed to be divorced entirely from latter—yet our flesh-and-blood interactions are increasingly affected by our digital constructs. This, of course, can only mean that we must be more careful about what we do and say around each other. For our moral and aesthetic standards are reflected in our communications, which are reflected in us, which are reflected again and again, back and forth, into infinity—or until CCO goes down again while recording your keystrokes.

Editor's Corner

From your Crazy Tech Editor

I'd like to thank Dave Smith, who came into the office at random and helped out. Cool. We're going to try to move deadlines a day earlier, so DON'T SEND IN STUFF LATE!!! Not like anyone listens to me anyway...muha-hahahahaha! Back to homework now...

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. Tuesday

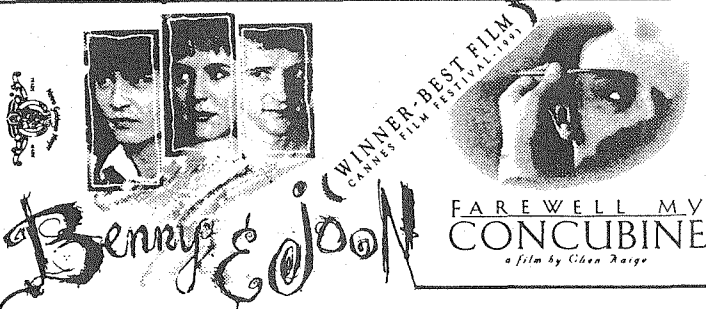
Articles, News Submissions

— 5 P.M. Tuesday

Art/Photo Submissions

— 5 P.M. Wednesday

ASCIT MOVIE NAIR MOVIE
on Friday, Jan. 20 on Saturday, Jan. 21



BAXTER LECTURE HALL AT 7:30 AND 10:00 PM
\$1.50 ASCIT NEXT WEEK:
\$2.00 NON-ASCIT Barcelona

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Zhang Yimou's
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Daily 6:40, 9:30 p.m. (Fri 6:40 p.m. only)
Sat-Sun Bargain Matinee 1:00 p.m.
Sat-Sun Regular Matinee 3:50 p.m.

Politics of Cancer
Fri 9:30 p.m. Sat-Sun 11:00 a.m.

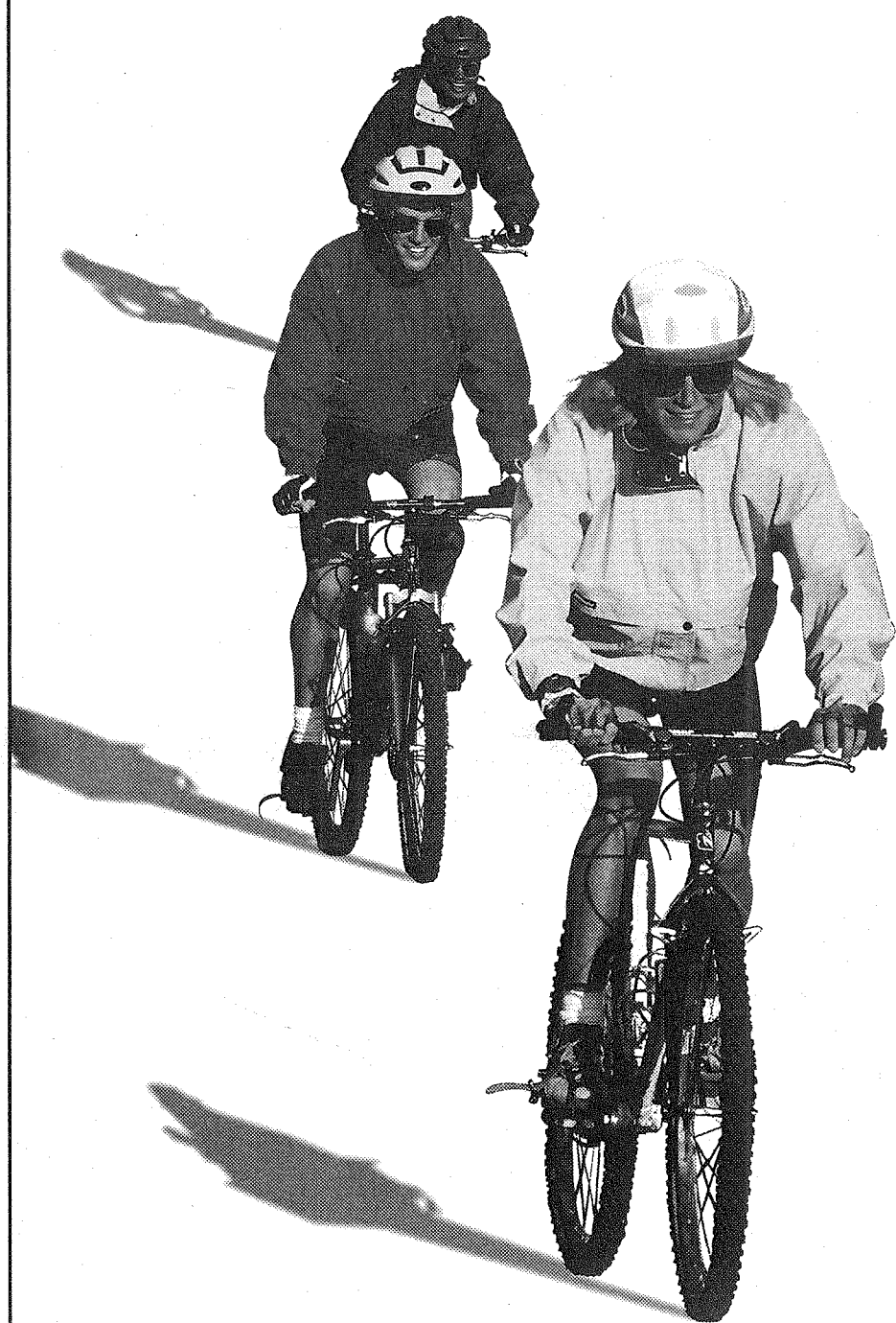
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This Week's ASCIT Election Statements

President

Chris Marsh:

Hi. As you probably know by now, I am running for the ASCIT presidency. Student government is changing pretty fast these days, and as president I would like to take on the challenge of making sure that when the dust finally settles, you are better off. As a candidate, I feel I have several facets which would make me an excellent choice for president; among them are good working and personal ties with the school's administrators and all current and prospective house presidents. More pertinent than this, however, is my proven track record of using these avenues to quickly and correctly accomplish the duties with which I am charged, an example being last year's ASCIT Formal. Serving on the current BoD has given me much more than this however: I have seen four presidents in the office, and, as such, have a very good feel for the responsibilities and commitments of the position. I also talk with quite a few people from around campus, and, subsequently, have a fairly keen insight into the various student opinions on issues that will face us in the upcoming year. But all these things are meaningless unless you look at me all by myself, without any ties to what I have done or these assets I possess. I believe that I have the ability to react and to adapt positively as quickly as any situation can present itself, making me the clear choice for the position. I hope that you will grant me your vote on Monday. Thanks.

Jonathan McDunn:

This is an exciting time to be involved in student government. Last year's arguments about jurisdiction and representation have died down and ASCIT is serving again as a representative body. We are cooperating with both the IHC and BOC instead of working at cross-purposes.

We have developed a rapport with various members of

the administration in the past four months, and as a result, I feel that undergraduate concerns are more adequately and fairly addressed than they have been in the past. The most obvious of these issues has been the administrative effort to preserve Steele House as the residence for the MOSH. An equally important issue has been the revision of the core curriculum and the pass/fail grading system. Although these issues are not yet resolved, undergraduate input continues to be solicited, presented and considered at every level including the Faculty Board.

These things coupled with the current evaluation of Student Affairs leads me to believe that there could be significant improvements in the quality of undergraduate life in the next few years.

Here are just a few areas that I can think of where undergraduate input could make a difference in the next year: deciding the role of Avery House in the Caltech community, strengthening the undergraduate advisor program, building relationships between the undergraduate community and the faculty, and evaluating how well various Caltech offices (e.g., the Bookstore, Career Development Center and Health Center) serve the needs of the undergraduate community.

I feel that in my term as ASCIT President I have focused the BOD on addressing issues relevant to the student body as a whole. Questions about reforming the BOD structure and procedures are still being addressed, however, they have taken a backseat to more pressing issues (e.g., Steele House and the Core Curriculum). I hope that these things will continue to be addressed in the future, but not to the exclusion of either day-to-day business or long-term goals. Hopefully it is clear that I am seriously running for reelection (yes, next year will be my fifth year) and that I really care about the future of undergraduate life here.

I hope that you consider these things when you vote on Monday for ASCIT President. Thank you.

Vice President/BOC Chair

Ricky Carson:

I believe that the Honor System is our most valuable institution. Trust and respect between members of the Caltech community gives us a degree of freedom not found elsewhere. However, the numerous benefits we enjoy under the Honor System are not without responsibilities. Every member of the community has an obligation to uphold the standards of the Honor System, and it is the duty of the Board of Control to maintain and, in some cases, protect the rights of the undergraduate students. More importantly, the primary responsibility of the Board of Control Chairman is to ensure the continuance of the Honor System in the undergraduate student body.

As a house representative on the Board of Control for the past year, I have had experience dealing with Honor System issues. I have also served as a representative of the Board of Control on the ASCIT Committee on Student Government, and have worked closely with members of the ASCIT Board of Directors. I want to continue to serve the undergraduate community by assuming the office of Board of Control Chairman and ASCIT Vice-President.

As a member of the ASCIT Board of Directors, I would work to represent your interests to the administration and faculty, and to bring about improvements in student government. As Board of Control Chairman, I would endeavor to protect the privileges we enjoy under the Honor System, and to promote greater trust and respect in our community. On Monday, I hope you will consider Ricky Carson for Vice President/Board of Control Chairman.

James Honaker:

The Honor Code makes

life at Caltech what it is. Well, the Honor Code and the House System. Or perhaps, the Honor Code, the House System, and the type and sorts of people that Tech attracts...

Whatever the formula is, the Honor Code is an important element. I first joined the Board because I thought it was an important way to serve and I was fascinated to see how it really worked. Also because I was constantly being told that the Honor Code was not what it used to be, that it was slipping, that it was beginning to fade. Profs seemed more distrusting, students seemed more cynical, and the Administration acted as though it had never heard the words. Above all I wanted to help stop this erosion. Over the last two years, the leadership of Mike Brundage and Chris Bryant (and Dan and Zack) has helped the Board bring about increased faculty interaction, the new faculty handbooks being but one example, and stronger dealings with administration and offices such as resident's life.

I think the changes that have taken place are visible all around. In dealing with Faculty as a member of UASH, I have seen a Professor explaining to the registrar how the Honor Code works and how it extends beyond academics. As President of Blacker and a member of the IHC I have witnessed an increased cooperation with the administration, for example, changes is security, and an increased willingness to gain student participation, through increasing the number of representatives on several faculty-student committees and allowing student delegates to attend faculty board meetings.

I think the erosion is ending. I think it is time to work on reversing the process, to build back whatever trust has been lost, to regain the confidence that has been absent. This is what I believe I can accomplish. Please re-

member to vote.

Jeff Kirshberg:

I've served on the BOC for a year, and I have little or no opinion on the future or role of A.S.C.I.T. Frankly I'm sick of hearing people go on and on about A.S.C.I.T. this, and A.S.C.I.T. that. Blah, Blah, Blah. . . None of it matters, because as far as I can remember no one in student government has ever made a decision which has had jack to do with me. Bottom line: I'd make a great chairman for the Board of Control for three reasons. First, I'm assertive. Second, I have a good relationship with the Deans. And third, not only do I know where the honor code applies, but I also know which issues fall outside the honor code!! And in the immortal words of Ty Webb, "A flute with no holes is not a flute, and a donut with no holes is a danish." FREE RICK JAMES!!!

Chris Walker:

A Chairman of the Board of Control must possess two qualities: experience and patience. The Chairman's primary function is to guide the Board; he, with the aid of the Secretary, decides whether a case merits a full Board hearing; he provides the Board with an overall view of the case and may stress key points; in the event of a conviction, he often sets reasonable guidelines for the nullification and protection procedures; all this requires experience. To ensure that all information relevant to a case is available to the Board, that adequate deliberation among the Board members takes place, and that no decision is hastily reached requires patience. Having served on the Board since spring of last year has given me both the experience and patience necessary to perform competently as Chair; please vote for me.

Proposed ASCIT Bylaws Amendments

The following five amendments to the ASCIT Bylaws will be voted on as part of the ASCIT Presidential Election on Monday 23, January 1995. These amendments are the result of efforts over the past few months to improve ASCIT operations (e.g., making workloads more reasonable, improving oversight of services and publications, and clarifying responsibilities). They are being voted on at this time so that they will take effect — if passed — in time to benefit the new officers. The reasons behind these amendments are included here also. Note that if Amendment #5 is approved, the individual elected to the office of VP/BOC Chairman will assume the office of BOC Chairman and an election for Vice President will be held in the ASCIT Officers Election of 6 February 1995.

Key: Text Added Text Unchanged ~~Text Removed~~
Description of Changes '...' = remainder of section unchanged

AMENDMENT #1 Proposed by BoD (7-0-0) on 15 January 1995

STRENGTHEN AND RENAME THE EDUCATIONAL POLICIES COMMITTEE

- *Edit ARTICLE IV—OFFICERS, Section 8, to modify the name of the committee:*

SECTION 8. Office of the Director for Academic Affairs: The Director for Academic Affairs shall be chairman of the Educational Policies Academics and Research Committee and be responsible for all other committees formed by the Corporation on academic affairs. ...

- *in ARTICLE XII—COMMITTEES, edit Section 1 to modify the membership of the committee and to strengthen its responsibilities:*

SECTION 1. The Director for Academic Affairs shall be the Chairman of the Educational Policies Academics and Research Committee. The committee shall consist of the Chairman, a Secretary elected by the ASCIT membership, one member elected from each of the Houses, and two at-large members appointed by the Board of Directors. ~~The Board of Directors, with the advice of the outgoing Educational Policies Committee, shall appoint a number of representatives deemed necessary by the Director for Academic Affairs. The House-elected members shall be elected during second term each year using procedures similar to the election of Board of Control members. They shall assume office at the start of third term. The Academics and Research Committee shall be responsible to the Board of Directors for actively enhancing the academic and research experience available to undergraduates at the Institute. Specific responsibilities shall be assigned by the Board of Directors. The Educational Policies Committee shall be responsible for maintaining the Corporation's interests in regard to academic policies of the Institute. The Educational Policies Committee shall also be responsible for the production of the Course Listings of Undergraduate Education.~~

EXPLANATION - Amendment #1 15 January 1995

STRENGTHEN AND RENAME THE EDUCATIONAL POLICIES COMMITTEE ACTION

This amendment renames the Educational Policies Committee to the Academics and Research Committee (ARC). Modifications are made to the membership: seven members are now elected from the Houses, the other two are still appointed by the Board of Directors, and an ARC Secretary is elected by the student body.

In the current system, all members are appointed by the Board of Directors. The level of activity of the committee varies from year to year.

RATIONALE

These changes make the Academics and Research Committee (formerly the Educational Policies Committee) a proactive force in undergraduate representation on academic and research issues. With a strengthened membership (one that draws on the ideas and diversity of the seven Houses), this committee is able to deal with the increasing importance of research at Caltech (e.g. the SURF Program) and the need to continuously improve the curriculum.

A name change has been made to emphasize the enhanced role of the committee, and also to more easily distinguish it from the Faculty's 'Academic Policies Committee'.

A note on the *CLUE*: for all practical purposes, the production of the *CLUE* has been through the Editor and his/her team of co-editors. The Educational Policies Committee has not been involved in this process. Note that striking out the sentence about the *CLUE* does not prevent the ARC from contributing to the content of the *CLUE*.

AMENDMENT #2 Proposed by BoD (6-0-0) on 15 January 1995

CLARIFY THE RESPONSIBILITIES OF THE TREASURER THAT RELATE TO THE PUBLICATIONS, AND IMPROVE OVERSIGHT ACTION

- *In ARTICLE IV—OFFICERS, edit Section 6 as follows:*

SECTION 6. Office of the Treasurer: The Treasurer shall receive all money belonging to the Corporation and

shall deposit it to the credit of the Corporation in such bank or banks as the Board of Directors shall determine. He shall keep a full account of money expended and received and shall make a report of such account once a term at a regular meeting of the Board of Directors, and at such time as the Board of Directors may desire. He shall have the Corporation books audited as soon as possible after the close of the previous fiscal year. He The Treasurer shall receive and present to the Board of Directors term and annual reports of all ASCIT publications, and he shall ensure that all publication officers are informed of and comply with the provisions of Article XIV. He shall have direct charge of all Corporation property.

- *Edit ARTICLE XIV—PUBLICATIONS as follows:*

Edit Section 5 to emphasize that the financial reports are to be in writing. Also, bring this section into agreement with Article IV, Section 6, which establishes the Treasurer as the liaison for publication financial reports:

SECTION 5. The Business Manager of each publication is responsible for all funds belonging to that publication. He may open accounts only with financial institutions previously approved by the Board of Directors. He will account for all receipts and expenditures in a manner recommended by the Treasurer. He will submit written reports on the financial condition of the publication to the Board of Directors through the Treasurer at the beginning of each term and at the end of the academic year. He The Business Manager is the only one empowered to transact business in the name of a publication. ...

In Section 7, require that the publications disclose contracts to the Treasurer:

SECTION 7. Contracts or agreements may not be made, by the Business Manager of any publication, that extend beyond the academic year in which his term expires, unless a termination clause which requires ninety (90) days (or less) notice to be effective is part of the contract or agreement. The Treasurer shall be notified in writing of any contract or agreement prior to its enactment. ~~However, the~~ The Board of Directors may enter into contracts on behalf of a publication for a period not to exceed three (3) years.

Edit Section 8 to clarify the accountability of the publication officers to the Board of Directors to reduce the likelihood of budget overruns, and to ensure the Board has adequate information to meet its obligation of being ultimately responsible for the circulation and finances of the publication:

SECTION 8. Printing contracts for the *Big T* or *little t* must be approved by the Board of Directors before they are awarded. Prior to requesting this approval, the publication (*Big T* or *little t*) must submit a budget to the Treasurer for approval by the Board of Directors. Such a budget shall include a reserve amount of 10% expectable income of the publication for unforeseen expenses; it shall be reviewed by the Treasurer for completeness before presentation to the Board of Directors. The reserve amount may not be used without the prior approval of the Treasurer. Unexpected occurrences, significant deviations from budget estimates, and other problems shall be brought to the attention of the Treasurer, or another Director if the Treasurer is unavailable, as soon as a publication officer is aware of such a possibility.

In Section 10, clarify the procedures for presenting the compensation schedule to the Board:

SECTION 10. Compensation schedules for *The California Tech*, *Big T*, and *little t* must be submitted by each publication to the Treasurer for approval by the Board of Directors ~~for approval~~. The schedule must be submitted within a month after the Editor and Business Manager of that publication have taken office. If either is replaced before their respective term of office ends, the schedule must be resubmitted within one month after such replacement has taken place. The schedule must include the following: salaries, commission rates, and possible bonuses; description of duties for all paid positions; and a payment schedule; it shall be reviewed by the Treasurer for completeness before presentation to the Board of Directors. The salaries, commissions and bonuses will be paid from the respective publication's funds.

EXPLANATION - Amendment #2 15 January 1995

CLARIFY THE RESPONSIBILITIES OF THE TREASURER THAT RELATE TO THE PUBLICATIONS, AND IMPROVE OVERSIGHT ACTION

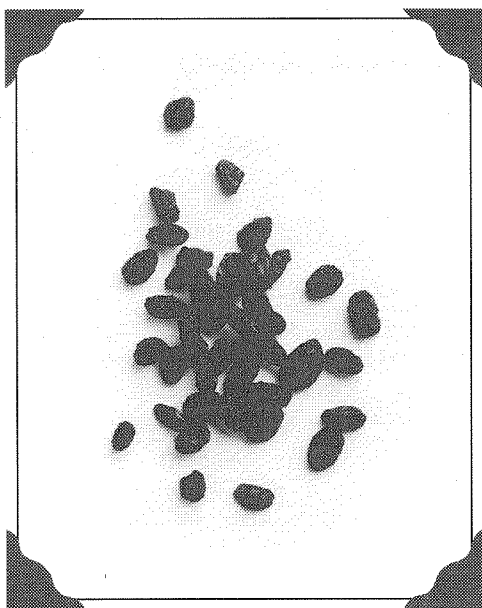
This amendment clarifies the oversight responsibilities of the Treasurer in relation to the financial aspects of the publications. It also establishes procedures (Art XIV, § 8) to ensure that the Board of Directors is aware of potential financial problems - before they happen.

Modifications are also made to have the Treasurer review and clarify financial reports before their presentation to the Board of Directors.

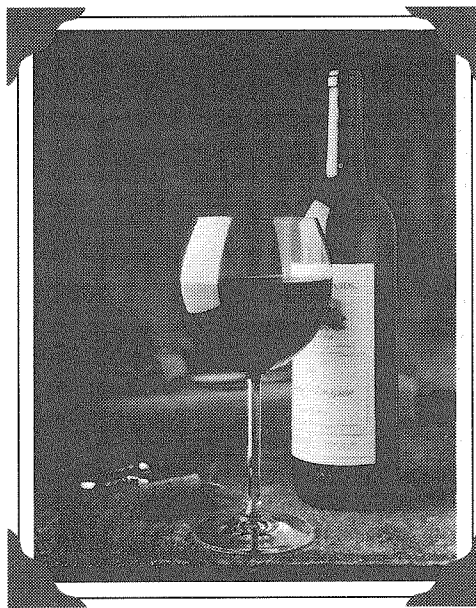
RATIONALE

The changes in the amendment are fairly straightforward. Most deal with clarifying the channels of communication and financial oversight between the publications and the Board of Directors. The Treasurer has been, and remains, the liaison.

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This amendment clarifies that financial reports be submitted to the Board of Directors through the Treasurer so that he can check that the information is complete.

A change is made to Art XIV, § 8, in order to give the Treasurer and the Board of Directors forewarning of financial problems. With this information, the Board can work on minimizing the damage instead of having to bail out the publication weeks down the road.

AMENDMENT #3 Proposed by BoD (5-1-0) - 15 January 1995

CREATE THE OFFICE OF DIRECTOR FOR SERVICES, REPLACING THE UPPERCLASS DIRECTOR-AT-LARGE

- Edit ARTICLE IV–OFFICERS as follows:

In Section 1, rename the Upperclass Director at Large to Director for Services:

SECTION 1. The general officers of the Corporation shall be the President, Vice President, Secretary, Treasurer, Interhouse Committee Chairman, Director for Academic Affairs, Director for Social Activities, Director for Services, ~~two Freshman~~ Directors at Large, and Athletic Manager. These offices, and those of Board of Control Secretary and Editor of the *California Tech*, are elected offices.

Split Section 10 into Sections 10 and 11 (renumber all subsequent sections) and include the duties of the Director for Services:

SECTION 10. Offices of the Director for Services Directors at Large. One of the Directors at Large shall be a freshman and the other shall be an upperclassman at the time of election. The Upperclassman Director at Large Director for Services is responsible for the management, finances, operation, and maintenance of the ASCIT van and copier. He shall oversee the operation of the ASCIT movies, athletics, the PA equipment, and all other non-publication services provided by the corporation to the membership.

SECTION 11. Office of the Freshman Director at Large: The Freshman Director at Large is responsible for the publication of the *Undergraduate Research Opportunities Handbook*. ~~The Directors at Large~~ He shall in addition perform other duties as specified by the Board of Directors.

- Edit ARTICLE V–THE BOARD OF DIRECTORS to include the Director for Services, replacing the Upperclass Director at Large:

section 1—MEMBERSHIP. The Board of Directors shall consist of the President, Vice President, Secretary, Treasurer, Interhouse Committee Chairman, Director for Academic Affairs, Director for Social Activities, Director for Services, and ~~one freshman and one upperclassman~~ Director at Large. ...

- in ARTICLE XII–COMMITTEES, edit Sections 3 and 5 to clarify the responsibilities of the Director for Services:

SECTION 3. The Athletic Manager shall be the Chairman of the Athletic Committee. The Board of Directors, with the advice of the Director for Services and the outgoing Athletic Committee, shall appoint no more than three at-large representatives. The remainder of the committee shall consist of the athletic managers of each undergraduate House. The Athletic Committee shall be responsible for maintaining the Corporation's interests in athletics at all levels of competition, and they shall report to the Director for Services on their status throughout the year.

SECTION 5. The ~~ASCIT~~ Movies Chair shall be the chair of the ASCIT Movies Committee. The Chair shall be appointed by the Board of Directors with the counsel of the Director for Services and the Treasurer, and shall be responsible for the Committee. The Movies Chair shall appoint additional members to the Movies Committee upon approval by the Board of Directors. The Movies Committee will be in charge of operating and maintaining the ASCIT Movies equipment, choosing each term's movies, and managing the business expenses and advertising costs. At the beginning of each fiscal year, the Committee shall submit a budget for approval by the Board of Directors for the upcoming year, and they shall be responsible for reporting to the Director for Services ~~Board of Directors~~ on their status throughout the year.

EXPLANATION - Amendment #3 15 January 1995

CREATE THE OFFICE OF DIRECTOR FOR SERVICES, REPLACING THE UPPERCLASS DIRECTOR-AT-LARGE

ACTION

This amendment replaces the Upperclass Director-at-Large with the Director for Services, who performs many of the same duties as the Director-at-Large. In addition, the Director for Services is responsible for overseeing the operations of 'all non-publication services provided by the corporation to the membership'.

At present, many of the services (e.g. the ASCIT Movies) do not have oversight, except by the Board of Directors as a whole.

RATIONALE

The responsibilities of the Upperclass Director-at-Large are mainly service-related (e.g. van, copier), and this change gives the office a more appropriate title. The Director for Services is to act as a liaison between the other ASCIT services and the Board of Directors. At present, communication between the services and the Board is poor, given the fact that there is no liaison specifically charged with this duty. The Director for Services will monitor the activities of the services, keep the Board updated, and coordinate the services.

AMENDMENT #4 Proposed by BoD (6-0-0) - 15 January 1995

CLARIFY THE RESPONSIBILITIES OF THE SECRETARY

- In ARTICLE IV–OFFICERS, modify Section 5 as follows to clarify the duties of Secretary:

SECTION 5. Office of the Secretary: The Secretary shall, during the absence of the President and Vice President, assume the duties of the President. The Secretary shall keep a record of the proceedings of the meetings of the Corporation and the Board of Directors. He shall post, or otherwise make public, copies of the record of each meeting within three days subsequent to that meeting. He shall post notice of all meetings of the Corporation in which legislation is to be acted upon or discussed, together with a complete statement of such legislation at least seven (7) days prior to the meeting. The Secretary shall maintain a current file of the minutes and reports of all ASCIT committees, and all committees and organizations having interests in common with those of the Associated Students. He shall oversee communications, elections, and the records and archive.

EXPLANATION - Amendment #4 15 January 1995

CLARIFY THE RESPONSIBILITIES OF THE SECRETARY

ACTION

Addition of two sentences to the description of the duties of the Secretary (see amendment).

RATIONALE

It is valuable to have the minutes of ASCIT and non-ASCIT committees (e.g. Faculty Board) readily available to monitor proceedings and issues which involve undergraduates. This amendment charges the Secretary with obtaining and maintaining these records.

The amendment also clarifies that the Secretary has the responsibility to oversee communications, the elections, and the archives/records of the corporation. As with the Director for Services, this modification provides a liaison - the Secretary - between these branches of ASCIT and the Board of Directors.

AMENDMENT #5 Proposed by BoD (7-0-1) - 15 January 1995

CREATE THE SEPARATE OFFICES OF VICE PRESIDENT AND BOARD OF CONTROL CHAIRMAN

- Edit ARTICLE IV–OFFICERS as follows:

In Section 1, add Board of Control Chairman to the list of general officers:

SECTION 1. The general officers of the Corporation shall be the President, Vice President, Secretary, Treasurer, Board of Control Chairman, Interhouse Committee Chairman ...

In Section 2, change 'Vice President' to 'Board of Control Chairman':

SECTION 2. ... If an officer ceases to be a registered undergraduate, he shall retire from that office. An officer other than the ~~Vice President~~ Board of Control Chairman or the Board of Control Secretary may petition the Executive Committee for permission to continue. ...

Edit Section 4, which describes the office of Vice President, as follows:

SECTION 4. Office of the Vice President: The Vice President shall, during absences of the President, assume the duties of that office. ~~He shall act as chairman of the Board of Control. He shall assist the President in coordinating the policies and activities of the Associated Students. His primary responsibility shall be to insure the continuance of the Honor System among the students. He must be either a junior or a senior in the fall term immediately following his election.~~

Add the following as Section 7, to describe the office of Board of Control Chairman, and renumber all subsequent sections:
SECTION 7. Office of the Board of Control Chairman: The Board of Control Chairman shall perform the duties of the office as defined in Article VII. His primary responsibility shall be to insure the continuance of the Honor System among the students. He must be either a junior or a senior in the fall term immediately following his election.

- In ARTICLE V–THE BOARD OF DIRECTORS, add Board of Control Chairman to the membership of the Board of Directors:

SECTION 1—MEMBERSHIP. The Board of Directors shall consist of the President, Vice President, Secretary, Treasurer, Board of Control Chairman, Interhouse Committee Chairman, ...

- In ARTICLE VII–THE BOARD OF CONTROL, edit Section 2 and subsection g to replace 'Vice President' with 'Board of Control Chairman':

SECTION 2—MEMBERSHIP. The Board of Control shall consist of the ~~Vice President of the Corporation, who shall act as chairman, and the following members: the Secretary of the Board of Control~~ Chairman, the Board of Control Secretary, two members appointed by the Board of Control, and seven members, one elected in each of the seven undergraduate student Houses.

(g) These representatives at large shall be chosen after ASCIT elections but before the swearing in of the new officers. They shall assume office at the time the ~~Vice President~~ Chairman is installed.

- Edit ARTICLE VIII–ELECTIONS & PROCEDURES as follows:

In Sections 1 and 4, replace 'Vice President' with 'Board of Control Chairman':

SECTION 1. Nominations for the offices of President and ~~Vice President~~ Board of Control Chairman shall open at 8 a.m. the second Wednesday of second term and shall close at 5 p.m. the following Tuesday.

SECTION 4. All registered undergraduates may vote for the ~~Vice President~~ (Board of Control Chairman), the Board of Control Secretary, and the Interhouse Committee Chairman. Only members of the Corporation may vote for other elected officers. A voter may cast no more than one ballot in each election.

Edit Section 9 so that the Vice President succeeds into a vacant presidency:

SECTION 9. In the event of a vacancy in the presidency, the Vice President shall become President and the office of Vice President shall be declared vacant. In the event of a non-presidential vacancy on the Board of Directors, the Executive Committee shall ...

EXPLANATION - Amendment #5 15 January 1995

CREATE THE SEPARATE OFFICE OF VICE PRESIDENT AND BOARD OF CONTROL CHAIRMAN

ACTION

This amendment creates the separate offices of Vice President and of Board of Control Chairman. Both will be elected (the Vice President by the ASCIT membership and the BOC Chairman by all undergraduates) and serve on the Board of Directors.

The BOC Chairman is responsible for the Board of Control. The duties of the Chairman include enforcement of the Honor System and education of the undergraduate community about the Honor System. The Vice President is charged with assisting the President in the representation of ASCIT to the Faculty, Administration, and other groups (the President and Vice President will coordinate their actions to ensure that all bases are covered). With the President, he will sit on the major representative committees and ensure that the corporation runs smoothly. He shall assume the duties of the President in his absence, and shall become President if a vacancy occurs (an election would be held for a new Vice President).

In the current system, the Vice President serves as Board of Control Chairman and is responsible for the duties of both positions. At present, the Vice President does not enter the Presidency in the event of a vacancy (he is required, however, to perform its duties until an interim President is appointed).

RATIONALE

Both the offices of President and Vice President/BOC Chairman are heavily burdened. The duties of BOC Chairman prevent the Vice President from being as effective and proactive as possible and creates problems when the presidency is vacant. The addition of a third officer should significantly lower the burden on the President while freeing the BOC Chairman of the Vice Presidential duties. The number of issues which come up, such as the changes to the core curriculum and Steele House, ensure there will always be work for the Vice President. Specifically, the Vice President is an ideal officer to coordinate the preparation for Faculty-Student Conferences.

Having the Vice President succeed into the presidency ensures continuity and a smooth transition, something lacking in the current procedures which specify the appointment of an interim President for the two weeks it takes to elect a successor, usually a newcomer to the office who requires time to adapt. Recent events have shown the need for procedures to handle a presidential vacancy with minimal disruption to ASCIT operations and representation.

The Board of Control Chairman will be elected in the first election, and the BOC Secretary in the second election. Similarly, since the President is elected in the first election, the Vice President will be elected in the second election.

In the past, Vice Presidents/BOC Chairmen have handled the enormous burden in different ways. Some have taken five years to graduate, others relied heavily on the grade of 'E', and a few made time by not attending Faculty Board and ASCIT Board of Directors meetings. These well-qualified and hard working officers had to make difficult choices under the demanding workload of the office.

DUTIES OF THE VICE PRESIDENT

- Assist the President in representation of ASCIT to outside groups
- Be available to handle important issues when the President is too busy with other tasks
- (No issue should be left unaddressed because the President is too busy to handle it)
- Represent ASCIT, with the President, on major committees
- Coordinate the Faculty-Student Conferences, including preparations and follow-up
- Monitor ASCIT operations and ensure that publications, services, and activities run smoothly
- Assume the duties of the President in his absence
- Succeed to the Presidency in the event of a vacancy in that office
- Have the power to sign checks

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ASCIT NEWS

20 January 1995

✓ CURRICULUM

- The Educational Policies Committee (EPC) is preparing a formal 'freshman grading policy' for presentation to the Faculty. Tentative plans call for the entire year to remain pass/fail, but for the second and third terms to be on a confidential system of 'shadow grading'. If you have questions or suggestions regarding this proposal, please contact Flora Ho at floho@cco or David Derkits at dderkits@cco.

- The Board of Directors is reviewing the unexpected development relating to double majors, notably Bi/Ch. Apparently, some classes which were thought to count towards both majors will only go to one, meaning that some seniors suddenly do not have enough units to double-major. Watch for additional information in the coming weeks.

✓ ELECTIONS

- The ASCIT Presidential Election will be held this Monday, 23 January 1995, from 10:00 AM to 10:00 PM. Voters will elect the President and the Board of Control Chairman / V.P. (see the campaign statements), will reconsider the Y Referendum, and will consider five amendments to the Bylaws (these appear elsewhere in the *Tech* and also in the lounge of each of the seven Houses). Questions regarding the election should be directed to the Election Chairman,

Cedric Hobbs, at cedricit@ugcs.

- If Amendment #5 is approved, the individual elected to the position of Board of Control Chairman/ Vice Pres will assume the office of Board of Control Chairman and an election will be held for the Vice President in the second election (see below).

- Nominations for all remaining ASCIT elected offices open next Wednesday, 25 January, and close the following Tuesday, 31 January. Nomination sheets are posted on the east side of Winnett, by the ATM. The ASCIT Officers Election will be on Monday 6 February 1995.

✓ MISC ANNOUNCEMENTS

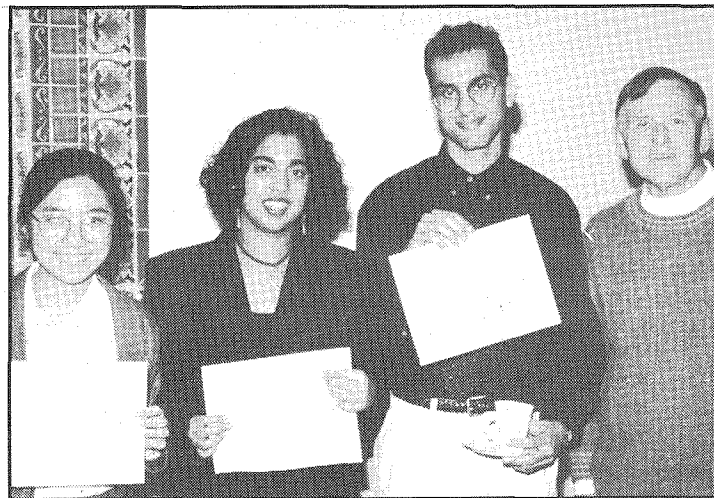
- Meetings of the Board of Directors will alternate between Wednesday and Thursday at 11:00 AM in the ASCIT Office. This coming week, the meeting will be on THURSDAY.

- There is still time to turn in *CLUE* Reviews. In addition, soon it will be possible to submit reviews over the World Wide Web.

- The *UROH* will be released soon.

- <http://www.cco.caltech.edu/~ascit/>

- Copies of ASCIT Board Minutes are available by mail or e-mail free of charge on request to students, faculty, and administrators. Requests should be sent to Secretary, ASCIT 64-58. The Minutes are available on caltech.ascit.announce and in House lounges.



The winners of the Doris S. Perpall Competition show evidence of their abilities. Pictured left to right: Lin Jia, Anandi Raman, Roshan Kumar, and Bob Perpall.

Perpall

FROM PAGE 1

Six finalists were then selected from this batch to advance to the final round. In the two-hour session, each of the contestants were given twelve minutes for their presentation, with three minutes for a question and answering period. This was three minutes shorter than the contestants had before, and in some cases the hurriedness was evident. A few presenters later confided that they had to remove sections of their presentation in order to finish on time.

Presentations were not flawless; however, despite the occasional overhead transparency that referred to "foreign paritcles," (sic) the presenters were all enthusiastic and showed evidence of placing decent effort into their talks. Between the semifinals and now they had been "trained" on presentation skills by Mary Ann Smith. Questions from the audience were invariably handled well.

First place was awarded to Lin Jia, a sophomore in biology/chemistry, for her project presentation, "Iso-

lation and Characterization of Yeast Nuclear pre-mRNA Splicing Genes and Factors in *Saccharomyces cerevisiae*." Her presentation was well-paced and was accompanied with informative diagrams. She will receive a \$500 check for winning.

Second place (\$300) was awarded to senior Roshan Kumar, and third (\$200) was to senior Anandi Raman. Coincidentally, all students in the top three were in Biology/Chemistry. Honorable mention went to John Joseph Carrasco, Kenneth Walsh, and Michael Wang.

All six students will be going with several other semifinalists to the National Meeting at Union College in Schenectady, NY, in April. All of the finalists are looking forward to the trip. Carrasco commented, "I'm really thrilled at being invited...that's the really exciting part."

At the end of the competition, a small reception was held while the results were being tabulated. To sum up, Bob Perpall commented that the "quality of the talks were comparable with the quality of Caltech."

True words indeed.

Ann Evans) and George Sand (Amandine Lucie Aurore Dupin) were female.

19. James Goldman wrote *The Lion in Winter*, C.S. Lewis wrote *The Lion, the Witch, and the Wardrobe*, George Bernard Shaw wrote *Androcles and the Lion*, and Irwin Shaw wrote *The Young Lions*. The closest Kurt Vonnegut, Jr. even came was *Welcome to the Monkey House*.

20. Ken Kesey wrote *One Flew Over the Cuckoo's Nest*. This is followed by Charles Dickens's *A Tale of Two Cities*, Alexandre Dumas's *The Three Musketeers*, and T.S. Eliot's *Four*

Quartets. The correct continuation is Kurt Vonnegut's *Slaughterhouse-Five*. A.A. Milne comes close with *Now We Are Six*, and Joseph Heller completely misses the boat with *Catch-22*.

21. Tom Clancy initiated *The Hunt for Red October* (or *Red Storm Rising*); Anthony Burgess created *A Clockwork Orange*; Fred Gipson owned *Old Yeller*; Fannie Flagg had *Fried Green Tomatoes at the Whistle Stop Cafe*; Toni Morrison showed *The Bluest Eye*; and Alice Walker wrote in *The Color Purple*. Of course, none of these colorful metaphors deterred you from noticing that *The Bluest Eye* was the only work not adapted to a movie.

Games & Puzzles

Last Week:

Literary Trivia

Apparently not enough of you were literary enough; only two people dared to enter the contest. The winner is Bob Nolty, who claims to have arrived at his answers without any research. Anyway, he will receive his new book as soon as I can figure out how to get it to him.

- Two female names appear as books in the Old Testament: Ruth and Esther; two in the Apocrypha: Judith and Susanna.
- Two of each animal were on Noah's Ark, according to Genesis 7:14-16; but look at Genesis 7:2-3, which numbers clean beasts and air fowls by sevens.
- Sixty-four(!) parables of Jesus are in the Bible.
- Sherlock Holmes, at 221-B

Baker Street, gets so much mail and packages that they are answered by a full-time secretary.

- The character of Terrence Mann in the movie *Field of Dreams* was based on J.D. Salinger.
- Antonio, not Shylock, was *The Merchant of Venice*.
- Jules Verne. The item is described in *Twenty Thousand Leagues under the Sea*.
- Ralph Ellison's *Invisible Man* is never named in the novel.
- Percy Bysshe Shelley (poet) and Mary Wollstonecraft Shelley (author) were married.
- H.G. Wells's *The Invisible Man* features a (literally) invisible man named Griffin.
- Richard Wright's *Native Son* is Bigger Thomas.
- Hamlet*, *Love's Labour's Lost*, *A Midsummer's Night Dream*, and *The Taming of the Shrew* are all

Shakespearean plays that contain plays within them.

- The lover in D.H. Lawrence's *Lady Chatterley's Lover* is Oliver Mellors.
- Although the word "witch" appears many times in the stage directions, the dialogue of *Macbeth* only contains the word twice: "Aroint thee, witch!" from I, 3, 6; and "Witch's mummy" from IV, 1, 23.
- Quasimodo was Victor Hugo's *The Hunchback of Notre Dame*.
- Hamlet may have the longest speaking part in any Shakespearean play (with 1,422 lines), but the character with the most lines is Sir John Falstaff, with 1,178 in *Henry IV*, Parts I and II, and an additional 436 lines in *The Merry Wives of Windsor*, for a total of 1,614 lines.
- Two and three cent pieces were still circulating in 1906 when O. Henry (pseudonym for William Sydney Porter) wrote "The Gift of the Magi," so there is nothing surprising about \$1.87 with only 60 cents in pennies.
- Although all pseudonyms, by George, George Orwell (Eric Blair) was male. Both George Eliot (Mary

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YNEWS

by Topher Hunter

Hiya 'Toonsters! Next week is Wellness Week, the time when various campus organizations get together to present information to you on how you can take better care of yourself. We've got a lot of events, ranging from the fun to the educational, so be sure to drop by! The schedule is as follows:

- Monday:
Reducing the likelihood of becoming a crime victim., Winnett Club Room 1, 12-1 pm.
- Tuesday:
When Someone You Love Is Gay, Lesbian, or Bisexual, Caltech Y Lounge, 7:30-9:00 pm. Refreshments will be served.

- Wednesday:
1995—No More Dieting, Winnett Club Room 1, 12-1 pm.
Eating Healthy in 1995, Winnett Lounge, 7-9 pm. Refreshments will be served.

- Thursday:
Self-Defense Training for Women, Winnett Lounge, 5:00-9:30 pm. Refreshments will be served.

- Friday:
Health Fair, Winnett Lounge and Patio, 12-3 pm. Food samples will be available.
Hormone Replacement: Is It For You? Women's Center Lounge, 12-1 pm.
Wellness Week Family Night, For children 2-12 and their parents,

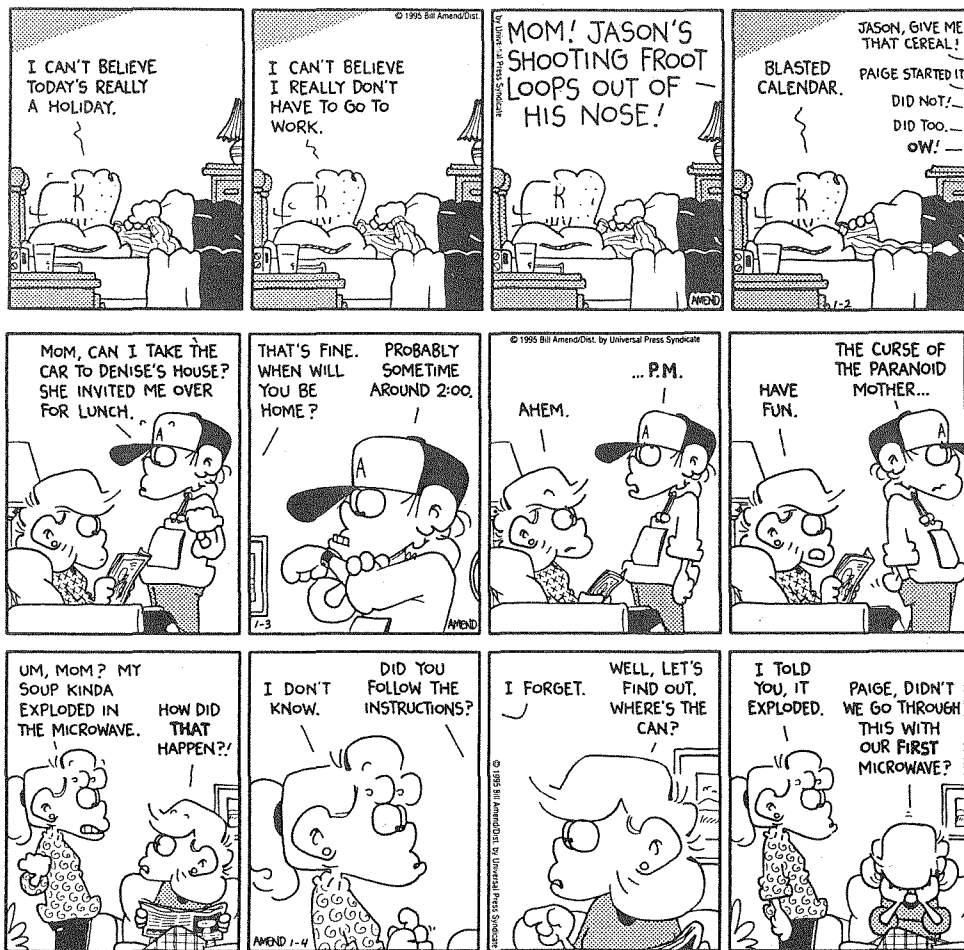
Winnett Lounge, 5:30-7:30 pm.
Massage Demonstration by Wild Oats, Braun Athletic Center, 7:30-9:00 pm.

- Saturday:
Hike at Chantry Flats, 12-3 pm. Space is limited, sign up at the Y. Lunch will be provided.
Senseless Death Comedy Troupe, Winnett Lounge, 9-11 pm. Refreshments will be served.

If you have questions or want additional information, see the campus mailing or call Dinah Lee Schaller at x8331. That's the news, folks, and I am outta here! Ciao!

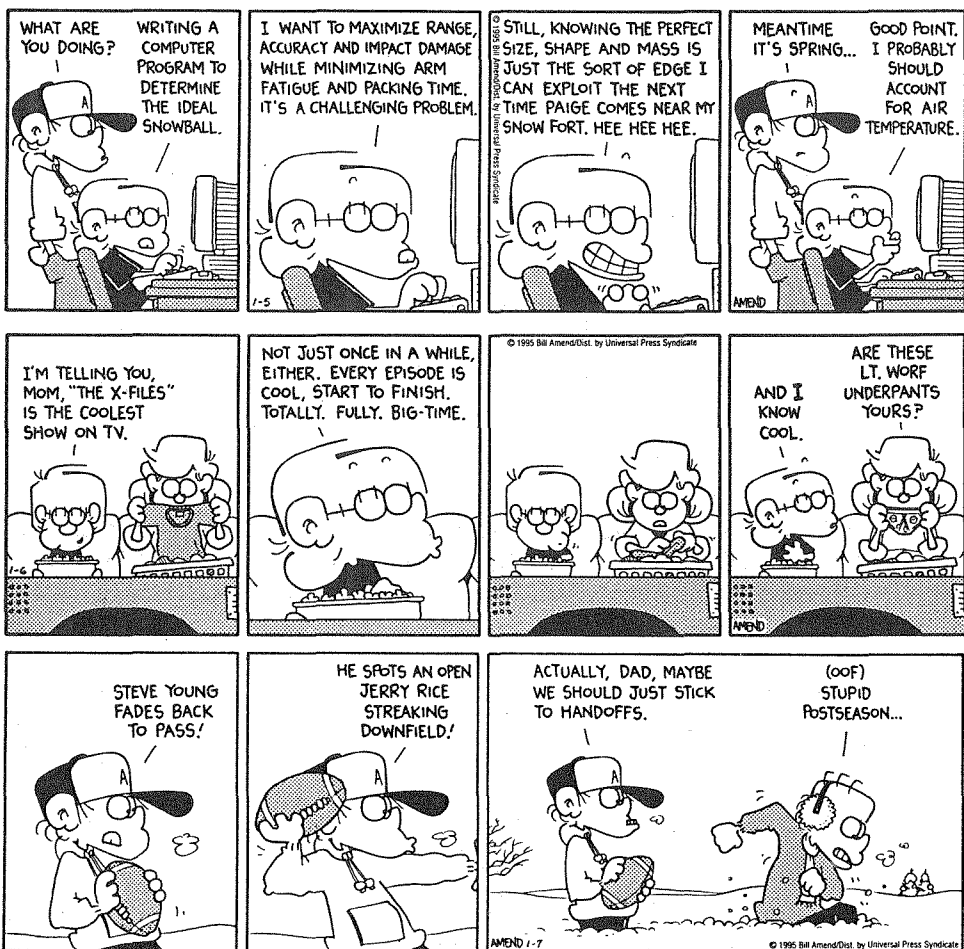
FoxTrot

by Bill Amend



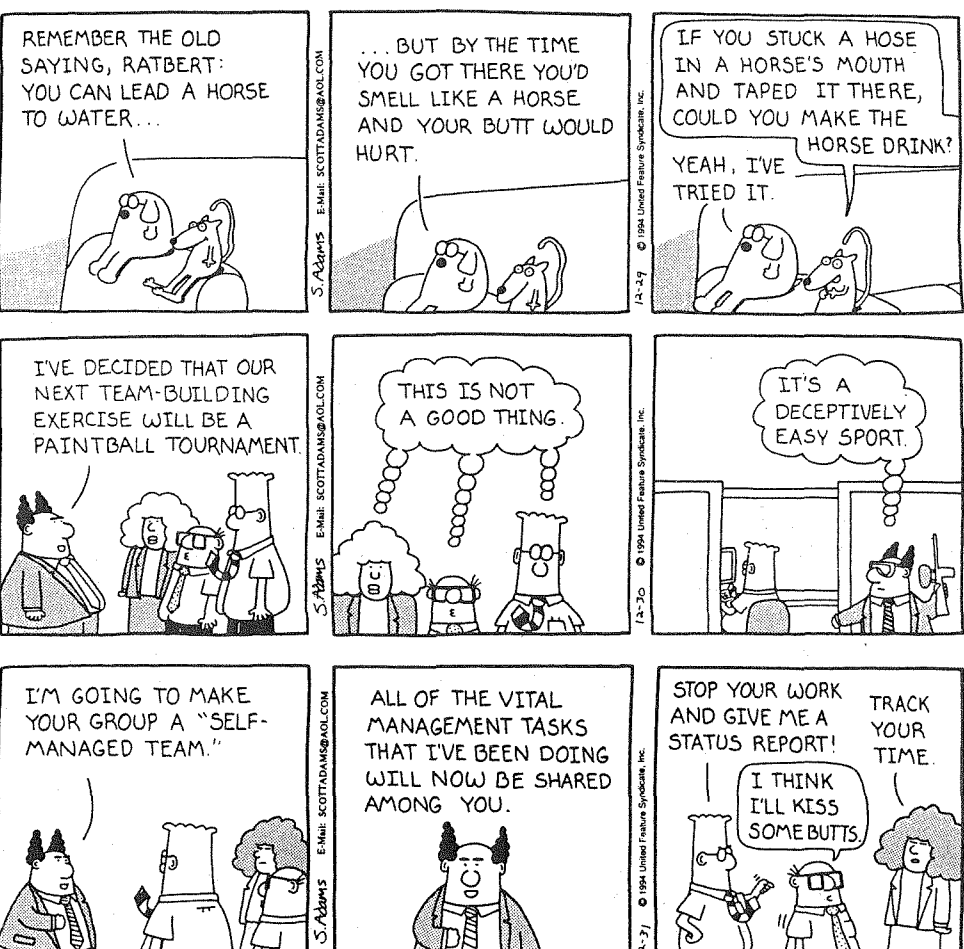
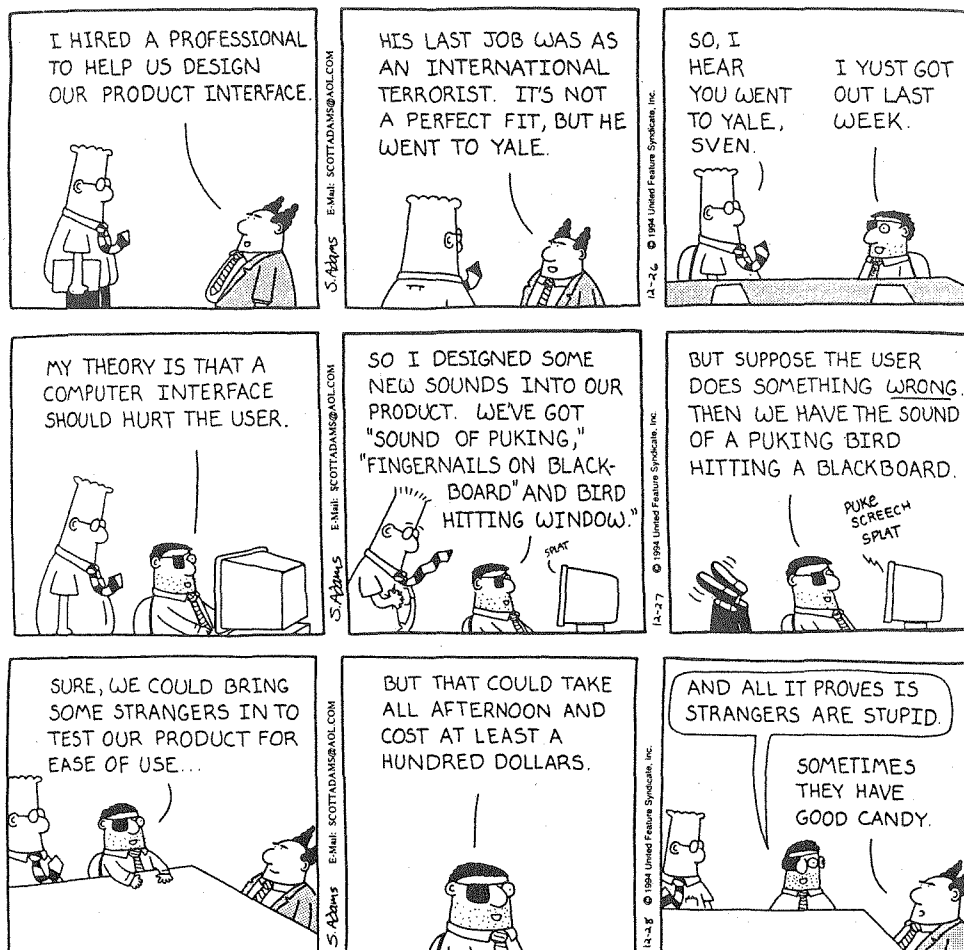
FoxTrot

by Bill Amend



DILBERT ® by Scott Adams

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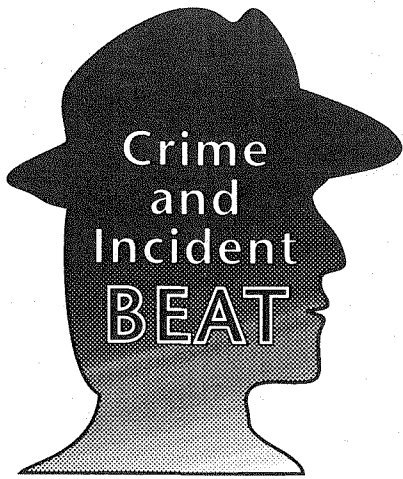
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Submitted by Gregg Henderson

January 12

Grand Theft Auto

1985 Toyota Camry, 4 door, Metallic Blue, Cal License #1MKH502. Missing from the North Lura lot between 8:30 am and 6:30 pm on 1/12/95.

January 13

Vehicle Accident

Two vehicles collided at the Alles loading dock. No injuries, minor damage.

Bicycle Theft

Unknown brand black bicycle taken from Fleming Courtyard, value \$200.00. The bike was last seen on September 19, 1994.

Suspicious Person

Male White 60-65, 6'2", 190-200 lbs., gray hair, wire rim glasses, neatly dressed. The suspect entered South Mudd claiming that earthquake reports from Caltech were ruining business in Pasadena. The suspect also called the Pasadena Star News

with the complaint. The suspect was agitated, but left without further incident in an unknown direction.

Theft from Vehicle

A briefcase was taken from the unlocked trunk of a vehicle parked on San Pasqual near Hill. Taken between 7:00 pm and 10:00 pm.

January 14

Suspicious Person

Male White, 45, 5'11", 175 lbs., black hair, hazel eyes, pinstripped white shirt, gray denims, black shoes was observed in Lloyd House library and later headed toward Dabney House. Security located him in Blacker House lounge. He was escorted from the campus.

Theft

A Gateway computer was taken from Millikan Library. The room had been secured at 6:30 pm on 1/13. No forced entry. The monitor was left behind. Value: \$1,000.00.

January 17

Auto Burglary

Two suspicious persons were reported on Hill near San Pasqual. They were contacted as they walked north on Hill. One ran east on San Pasqual the other to a Ford Pick-up, Cal License #4R79594. He was detained and it was determined that they had broken into a vehicle and had attempted to remove the radio. The police were notified and took the suspect into custody.

January 18

Theft

The handle bars of a bike parked at Marks House west end bike rack were stolen. The bike was secured with a "U-lock" and was not taken.

Gilbert

FROM PAGE 1

ogy Transfer" is a new title at Caltech, Gilbert insisted that it is actually quite similar to a previous office here: "Head of the Patents and Licensing Office." That office had been held by Michael Keller for the past three and a half years. In fact, Gilbert praised Keller because the licensing at Caltech increased during his tenure. Keller will stay and will be working closely with Mr. Gilbert. The former will manage patent portfolios and will be granted a new, as yet unnamed title.

Gilbert has ambitious plans for licensing at Caltech. He hopes to increase the licensing of Caltech technology. He desires to "create a climate in which the faculty will be more receptive...to working with industry." Gilbert feels this will be a

mutually beneficial relationship, where the public, the Caltech faculty, and the Caltech community as a whole will all benefit. This relationship between Caltech and industry will result in both new products and new companies.

Gilbert concluded with a three-point plan to improve Caltech's licensing, which he felt was "good" but in need of improvement. The three

foci of his strategy for improving Caltech's licensing are the following: First, he intends Caltech to be involved in a "large amount" of industrial research; second, he plans to improve royalties to stimulate such involvement; finally, he intends to improve Caltech's "start-up" in such projects. It is evident that Caltech's licensing will be undergoing radical changes in the near future.

SING!



The Gospel Fest in Dabney Lounge on Monday, part of the Martin Luther King, Jr. Day celebration, had a very high turnout. Everyone enjoyed the festivities.

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Kreative Korner

Elemental Pygmy

by Shameel Arafin

Underground spotlight blares her face —
Botched and painted sweet —
Songs she coos and dances tattoos,
Nail heels at her feet.

Wishing wells wedding bells
Swirl as she's undone,
Audience we stare groggily
For more of her to come.

Swivels and grinds the oiled flesh,
Royal hair and scented skin;
Our noses flare our breath grows rare,
We leer within our sin.

Monkey music tangible wonder,
Her lips are dark-stained berries;
Smoky prancer our neon dancer
Teases with attendant fairies.

Peach juice nipples pillared legs
Circle before my face,
Perfumed sweat-stew juggled sinew
Bought in this sacred place.

Dead women efficient smiles
Signal us at the door,
Tired sheets pre-menstrual pills
Chase us to our whore.

Elemental pygmy mind
Our dollar bills are done;
Tucked elastic squeezed plastic
She was our evening fun.

Dressed shame hungry daughter
Credit card Cleo rides the bus,
Telephone love buys books and pens
Subscription away from us.

—13th August 1994

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 judgment 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.

E&N

FROM PAGE 12

lowships 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 who 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 American Society of Naval Engineers is sponsoring a scholarship program with awards of \$2,000 each for the 1995-96 academic year. Eligible students must be U.S. Citizens, graduate or undergraduate students (undergraduates must be in their final year of study), majoring in engineering, and who demonstrate a genuine interest in a career in naval engineering. Demonstrated financial need is not a requirement but may be taken into consideration. Applications are available from the Financial Aid Office, and are due February 15, 1995.

The American Meteorological Society announces the 1995-1996 AMS/Industry Undergraduate Scholarship competition. Full-time students who will be juniors in 1995-96 and who are: 1. Pursuing a course of study leading to a B.A. in the atmospheric or related oceanic or hydrologic sciences; or 2. Enrolled in a program leading to a B.A. in science or engineering who have demonstrated a clear intent to pursue a career in the atmospheric or related oceanic or hydrologic science following the completion of appropriate specialized graduate level education are eligible to apply. Applicants must also have a minimum 3.0 GPA, and must be U.S. Citizens or permanent residents. The awards are \$2,000 for 1995-96, and are renewable for the following year (the senior year). To request an application, mail a self-addressed, stamped envelope to: American Meteorological Society, Attn: AMS/Industry Undergraduate Scholarship Program, 45 Beacon Street, Boston, MA 02108-3693. Applications are due February 17, 1995.

The Society of Manufacturing Engineers announces the availability of 41 scholarships for undergraduates, and 10 graduate fellowships. All of the undergraduate scholarships require applicants to be full-time, second year students with a minimum G.P.A. of 3.5. Forty of the scholarships are being offered to students who are enrolled in a degree program in

manufacturing engineering or manufacturing engineering technology. One scholarship is available to a full-time student seeking a career in robotics/automated systems. The graduate fellowship is offered to a student in a graduate program for manufacturing engineering or manufacturing technology. Applicants for the graduate fellowship must have a minimum 3.5 G.P.A. and must have proven scholastic ability, exemplary character, and leadership capability and who have demonstrated their potential for future leadership in the profession. Completed applications are due March 1, 1995.

→FIND/SVP is offering eight scholarships totaling \$25,000. Under the Tools for the Future Scholarship Program, eligible students can apply for two \$5,000 awards with 40 hours of FIND/SVP research services and a paid summer internship, and for six \$2,500 awards. To be eligible for these awards, in the Fall of 1995 you must be in an undergraduate or master's degree program in business, library science, computer technology, information studies, market

research, or journalism/communications. You must also be a legal resident of the U.S. Completed applications and all supporting documents are due no later than April 28, 1995.

Students can get further information and applications on all of the following awards listed below from Lauren Stolper, Fellowship Advisor, x2150, or email Lauren_Stolper@starbase1.caltech.edu.

→Rotary Scholarships: These awards fund one year of study abroad at the advanced undergraduate or graduate level in any country that has a Rotary Club. Juniors, seniors, and grad students may apply. Applicants must come from countries that have Rotary Clubs and if applying through their hometown in the U.S.A. or through the Pasadena club, must study in a country other than the U.S. The deadline for applications, which can be obtained from Lauren Stolper, is February 1, 1995.

→NSF-NATO Postdoctoral Fellowships in Science

and Engineering are currently open to all U.S. citizens or permanent residents. These fellowships will fund six months to a year of research in any NATO country other than the U.S. Eligible countries include Albania, Belgium, Bulgaria, Canada, the Czech Republic, Denmark, France, Germany, Greece, Hungary, Iceland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Spain, Turkey, the United Kingdom, and the 15 republics of the former Soviet Union. The application post-

mark deadline is January 31. Applications are available from Lauren Stolper.

→The Computational Science Graduate Fellowship Program funds 4 years of doctoral study in the U.S. in an area of applied science or engineering discipline with applications in high performance computing. The application postmark deadline is January 25. Applications are available from Lauren Stolper.

Sports Schedule

Sat., January 21st, 11:00 a.m. Swimming vs. Pomona-Pitzer@Pomona Pitzer
7:30 p.m. M. Basketball vs. Pomona Pitzer@CIT
Tue., January 24th, 2:30 p.m. Baseball vs. La Verne J.V.@CIT
Wed., January 25th, 7:30 p.m. Basketball vs. La Verne@La Verne
Sat., January 28th, 11:00 a.m. Baseball vs. Pomona-Pitzer J.V.@CIT
11:00 a.m. Swimming vs. Occidental@Occidental
1:00 p.m. M. Tennis vs. Faculty@CIT
7:30 p.m. Basketball vs. Occidental@Occidental

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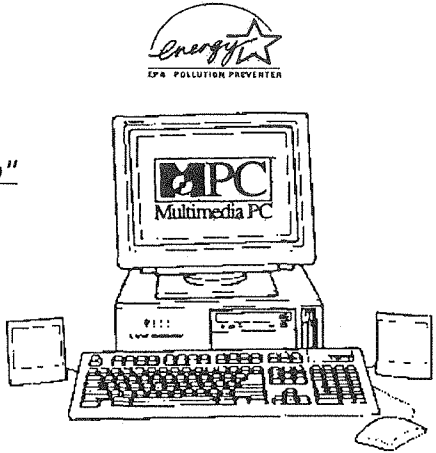
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486DX2-66 VESA

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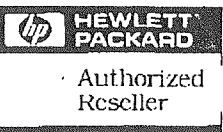
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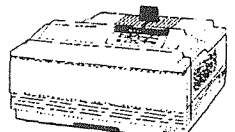
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Notices

→ Auditions for TACIT's upcoming production of "The Fever" by Wallace Shawn will be held on Saturday and Sunday, January 21st and 22nd from 2 to 5 p.m. at the TACIT House, 300 S. Holliston Ave. Production dates are scheduled for February 17th through 19th, February 24th through 26th. Copies of the script are available on reserve at Millikan Library. For more information, please call Asif Hassan at 797-1071.

→ Starting Friday, January 20, Sharyn Slavin, Assistant Vice President for Student Affairs, and Stan Borodinsky, Student Affairs Administrator, invite you to stop by the Coffeehouse on Friday afternoons between the hours of 2 and 4 p.m. to talk to them. All students are welcome and free soft drinks will be available. Please drop by and get to know Sharyn and Stan. They will be happy to answer questions or provide assistance.

The AIDS Service Center presents "Just Say Know," a free eight week educational support group that will explore different topics related to HIV and AIDS. "Just Say Know" will meet every Tuesday from 6:30 to 8:30 p.m. from January 31st through March 21st at the AIDS Service Center, 126 West Del Mar Boulevard, Pasadena. To participate, call Tom Drake at (818) 398-4553.

The Caltech Muslim Student Association will hold Muslim Friday Prayers 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.

From the Counseling Center

→ The counseling center will be offering a group for undergraduate students who are interested in developing skills that will help them overcome their shyness. The group will meet for five weeks, on Wednesday, from 3:00-4:30 p.m. beginning February 8th. The focus of the group will be (1) understanding your shyness and the underlying thoughts and beliefs that serve to maintain shyness, (2) developing skills to manage your anxiety and to help you become more effective socially, and (3) increasing your confidence and level of comfort by joining others who can identify with and support your experience.

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

→ The Caltech Folk Music Society will present singers Steve Gillete and Cindy Mangsen in concert at 8:00 p.m. on Saturday, February 4th in Dabney Hall. Gillete's songs have been recorded by Linda Ronstadt, John Denver, Gordon Lightfoot, and Anne Murray, while Mangsen has recorded a pair of memorable albums featuring her "rich, full voice." Tickets are \$10 each, \$4 for Caltech students.

→ Student Affairs and Friends of Caltech Instrumental Music will be hosting a series of Noon Chamber Music Concerts in the Dabney Lounge. On Friday, January 20th, they will perform music by Boismortier, Mozart, Haydn, and Beethoven, while on January 27th, Mozart's 239th birthday, the group shall perform works by Mozart, Beethoven, Schubert, and Mendelssohn. Admission is free, and lunch will be served to the first one-hundred people to attend.

→ Three concerts are to be held in the Dabney Lounge by the Chamber Music Ensemble. On Friday, January 20th at 8:00 p.m., the ensemble will perform works by Mozart, Weber, Schumann, Dvorak, and Shostakovich. The concert on Saturday, January 28th at 8:00 p.m. will include works by Brahms and Muczynski trios, and the Schubert Cello Quintet. The Sunday, January 29th "Super Bowl Alternative Concert" shall be held at 3:30 p.m., and

will include works by Mendelssohn, Dvorak, Beethoven, Khachaturian, and Cui. All concerts are to be performed by Caltech students, and admission is free.

→ An all-new edition of "Masters of Magic and Illusion", featuring the magic of Tiny Clark and Les Arnold, will be held on Saturday, February 4th in the Beckman Auditorium. Admission is \$9 for adults, \$5 for children. For more information, please call x4652.

→ A Paco A. Lagerstrom Chamber Concert will be performed by Nai-Yuan, violin, and Paulina Crake, piano, on February 5th at 3:30 p.m. in the Dabney Lounge. The performance will include Mozart's Sonata in E minor, KV 304; Beethoven's Sonata in F major, Op. 24; and Strauss' Sonata in E-flat Major. Admission is free.

→ Pianist-Composer Vatché Mankerian will perform works by Bach, Beethoven, Debussy, Babjanian, and Mankerian on Sunday, February 12th, at 3:00 p.m. in Harbeson Hall, Pasadena City College. General admission is \$20, students \$10. For ticket information, please call 794-2141.

At 3:30 p.m. on Thursday, January 26th in the Beckman Auditorium, a Censorship and Silencing Seminar shall be held. Entitled "The Debate Over 'Genetics and Violence': The Silencing of Socially Charged Science," guest speaker David Wasserman of the University of Maryland will explore issues growing out of the National Institute of Health's recent decisions to freeze a conference that was to be held on the genetic factors in crime. Professor Troy Duster of the University of California, Berkeley, and James Q. Wilson of the University of California, Los Angeles, will act as guest commentators for Mr. Wasserman. Audience question and discussion will be encouraged after the lecture and commentary.

→ The Caltech Jazz Bands are going to hold a concert featuring guest drummer Gregg Bissonette (drummer with David Lee Roth and Maynard Ferguson) on Saturday, Jan. 21st at 8 p.m. in the Beckman Auditorium. For further information on this free concert, please call x4652.

At the Beckman Auditorium on January 28th at 8 p.m., B.J. Crosby Sings Gospel Choir will sing a night of gospel music and song. Featuring members of the choir from the First A.M.E. Church of Los Angeles and directed by Barbara Allen, the Admission cost will range from \$22.00 to \$28.00 for adults, with student and senior rush tickets costing \$8.00 beginning one-half hour before the start of the performance.

William Bing will be hosting guest drummer Greg Bissonette in a Caltech Jazz Bands Concert on Saturday, January 21st, at 8 p.m. in the Beckman Auditorium. Admission is free.

On Sunday, January 22nd at 3:30 p.m., The Chamber Music Society of Lincoln Center will perform Mozart's Quartet in F major for Oboe & Strings, K. 370; Brahms' Trio for Horn, Violin & Piano, Op. 40; Hindemith's Sonata for Oboe & Piano; and Fauré's Quartet No. 1 for Piano & Strings in C Minor, Op. 15 at the Beckman Auditorium. Admission ranges from \$12.00 to \$22.50 (a \$4 discount is available for Caltech students).

Club Announcements

→ The Caltech IEEE Student Branch will have a meeting Tuesday, January 24th, at 7:30 p.m. in 102 Steele. Dr. McEliece will be our guest speaker, and we will discuss other events for this term and next. All members of the Caltech community are welcome.

→ The Entrepreneur Club is having a meeting on Wednesday, January 25th at 6 p.m. in Winnett Clubroom #1. We'll be taking yearbook pictures, accepting nominations for new officers, and serving pizza and soda. Don't miss out! Please contact samson@uges for more information.

→ Caltech Students for the Exploration and Development of Space (SEDS) will be holding a general meeting on Monday, January 23 at 9:00 p.m. in Winnett Lounge. In addition to discussing plans for the coming term, we will be having our group picture for the Big T taken. As usual, refreshments will

Terry's Page

→ denotes a new announcement.

be served. All members of the Caltech community are invited to attend. For more information, please contact Brad Dooley at sed@cco or at x2902.

→ The Undergraduate Seminar Series in Mathematics will begin as soon as someone volunteers to speak on mathematical topics of their choice, and a good time for those interested in attending is set. So, if you have questions or comments, might be willing to present something, or want to request a time, contact Heather at hijr@cco.caltech.edu.

Join the Caltech Shaolin Kung-Fu Club to learn and develop usage of classical kung-fu techniques, Chinese weapons, qi-gong, iron body training, meditation, proper stretching & holistic health practices. For further information, please contact Sifu Gene Black at (818) 359-1270, or Prof. Steve Wiggins at x4127.

The Office of International Programs invites you to a slide/video presentation presented by the U.S. Peace Corps on Friday, January 20th at 12:00 noon in Winnett Lounge entitled "Making a World of Difference: A Peace Corps Legacy." Pizza will be served after the presentation. Please make reservations by calling x6330, or by sending e-mail to Chris@pcmail.

The Caltech Ballroom Dancing Club offers free beginning classes every Monday night from 7-8:30 p.m. in Winnett lounge. Everyone is always welcome, whether he or she has attended any previous classes or not or whether he or she has a partner. For more information, contact Jeanne Hardebeck at jlh@seismo.gps.caltech.edu, x6971, or MC 252-21.

The Ballroom Dancing Club is currently accepting registration fees for a beginning Salsa and West Coast swing class. Enio Cordoba, a professional dancer and the owner of Alhambra studio Let's Dance LA, will teach the class at Caltech. Classes will be from 7:00-9:00 p.m. approximately every other Friday night starting January 20th. The first class will be in Winnett lounge, though succeeding classes will be in Dabney. The cost is \$15 per term for a student or staff or JPL employee and \$30 per term for someone unaffiliated with Caltech or a spouse of a Teacher or JPL member. Make the check payable to Caltech Ballroom Dancing Club and mail with your name to Bob Herman at MC 170-25 (RHERMAN@arms.gps.caltech.edu) or register at the door.

The Ballroom Dancing Club meets this Friday from 7:00 to 9:00 p.m. in Winnett lounge for a dance break. This dance practice is open to beginners, intermediate and advanced dancers who want to practice dancing or socialize and watch others dance. For more information, contact Jeanne Hardebeck at jlh@seismo.gps.caltech.edu, x6971, or MC 252-21.

Josh Levy, a professional jazz piano player and graduate of the USC jazz program, will begin teaching a non-credit Jazz class once a week this term. This class will include the following topics: Introduction to jazz harmony, listening skills, transcription, basic patterns and licks, and construction of logical solos. No previous improvising experience necessary, and the schedule is to be announced. There will be a nominal fee for attending this class.

Women's Glee Club begins all new music this term: Purcell's "Come Ye Sons of Art", Stravinsky's "Symphony of Psalms", and the Mozart "Requiem". Rehearsal will be held in SAC 1 on Mondays from 7:30 to 9:30 p.m. and with the Men's Glee Club in Beckman on Wednesdays from 5:00 to 6:00 p.m.. This is the last time this year that the Glee Club can accept new singers. For more information contact Laura Brady, President (356-7427, laura@uges) or Monica Hubbard, Director (X6260, mhubbard@cco).

Internships and Competitions

→ The Deans' Office is accepting proposals for the Monticello Foundation Internship. Three Caltech undergraduate women (current freshmen, sophomores and juniors) will be given an opportunity to participate in research projects outside the Caltech-JPL community for ten weeks during the summer. Each student will receive a \$3,600 stipend. Applicants are required to identify the projects in which they wish to participate. All arrangements with the principal researcher will be the responsibility of the

student. If you are interested, simply identify a sponsor for your experience at a research facility for a ten-week period. In a short essay, describe your project, and submit it to the Deans' Office, 102 Parsons-Gates, along with two faculty recommendations. Proposals are due by March 3rd, 1995.

→ Completely weary of the long hours of constant droning by your math and physics profs? Internships for a culturally diverse group of undergraduate students interested in exploring careers in art museums and related areas of the visual arts and the humanities will be offered this summer by the J. Paul Getty Trust. Students of all cultural backgrounds and academic disciplines are encouraged to apply for this ten-week internship opportunity. Applicants must be currently enrolled in an accredited four year college. They must have completed at least two semesters of college at the time of the application. In keeping with the focus of the program, students in the Los Angeles metropolitan area and Los Angeles residents attending school elsewhere will be given priority. The internships are full-time, beginning June 19th and ending August 25th, 1995, and include a stipend of \$3,000. Individuals will be assigned to one department and will work with a mentor on specific projects. All applications materials must be postmarked by February 27th; notifications will be made by May 1st. To receive an application form, please contact Getty Undergraduate Internships for Diversity in the Arts and Humanities, Department of Education and Academic Affairs, The J.P. Getty Museum, P.O. Box 2112, Santa Monica, CA, 90 407-2112, or call (310) 451-6545.

→ The Indiana University Center on Philanthropy is seeking student applicant for its Jane Addams Fellowships in Philanthropy program. The fellowship program awards each fellow \$15,000 for the year and 12 credits toward a graduating degree. Created in the spirit of Jane Addams, the program encourages aspiring young leaders to work for the common good while studying and investigating the roles of philanthropy. In addition to guided study, students will select an internship with a nonprofit organization in the Indianapolis community. Applicants must show a demonstrated leadership potential, special interest in some aspect of community service, and academic stability. Qualified candidates will be recent graduates with a bachelor's degree, including seniors anticipating graduation; the program is not intended for students who are already committed to a program of graduate study. Interested persons should contact the IU Center on Philanthropy, 550 West North Street, Suite 301, Indianapolis, IN 46202, or call (317) 274-4200.

The National Research Council announces the 1995 Resident, Cooperative, and Postdoctoral Research Associateship Programs to be conducted on behalf of federal agencies or research institutions whose 120 participating research laboratories are located throughout the United States. The Programs provide opportunities for Ph.D. scientists and engineers of unusual promise and ability to perform research on problems largely of their own choosing yet compatible with the interests of the sponsoring laboratory. Approximately four hundred new full-time Associateships will be awarded on a competitive basis in 1995 for research in: chemistry; earth and atmospheric sciences; engineering, applied sciences and computer science; life, medical, and behavioral sciences; mathematics; space and planetary sciences; and physics. Awards are made for one or two years, renewable for a maximum of three years; senior applicants who have held the doctorate at least five years may request shorter periods. Applications will be accepted on a continuous basis throughout the year to the National Research Council Associateship Programs (IJ 2094/D1), 2101 Constitution Avenue, N.W., Washington, D.C. 20418, or at the fax number (202) 334-2759.

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, contact the Tech office.

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 info, email to: IN%kdow@corwin.harvard.edu

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.

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, 1995.

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 20 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, CA 92808. Completed applications are due January 31, 1995.

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 College Women's Club of Pasadena Scholarship Foundation is awarding scholarships and fel-

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