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Mark Bassett '84

# THE CALIFORNIA TECH

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Volume XCI, Number 13

Pasadena, California

January 19, 1990

## Everhart Speaks

by Chris Dunn

A lingering trade deficit and the depreciation of American competitiveness have impelled solicitous examinations of the nation's industrial base, and the consequent shift of values in many sectors of the economy inevitably will affect funding of U.S. universities. Last Wednesday, President Everhart in his seminar, "U.S. Research Universities: Pressures, Prioritization, and Public Policy," outlined the historical response of U.S. basic research to variations in financial apportionment.

Concern over the state of technology is not new. The period from 1958 to 1968, which Everhart referred to as a decade of "dynamic growth," found ample impetus from the Soviet military and technological threat. The apparent threat was countered according to two policies assumed by the government after WWII: 1) That government would finance research, and 2) That the primary setting for basic research would be the university. Government funding increased both absolutely (in adjusted dollars) and proportionally compared with levels in the twenties, when institutions relied heavily upon private sources. Although some of the most visible stimuli for growth, e.g. Sputnik, the Cold War, cancer, and heart disease, inspired widespread apprehension, Everhart stressed that only an oversimplified view would see fear as the sole reason for expansion during the years of such noteworthy achievements as the space

program.

He termed the next decade "steady-state" for the stabilization of research funding. The latest period, 1978-1988, he dubbed the "decade of diversification." There were renewed interests in the Cold War, more academic competition for resources, a shift in emphasis from teaching to research, and far greater expenses for conducting research. There is now a tremendous reliance on federal dollars at private universities, especially at Caltech where funding for JPL accounts for at least 80% of the budget.

The seminar was part of the weekly program, "Science, Ethics, and Public Policy." Following the usual format of SEPP seminars, Everhart fielded questions from the audience of faculty, students, and magicians (Merlin, a.k.a. David L. Goodstein, was there). Students are encouraged to attend.

In an interview after the seminar, Everhart spoke of the importance of basic science in "lifting human spirit, improving the morale of a nation." While he believes the U.S. university system to be the envy of the world, he noted the poor condition of K-12 schooling and called Japan's primary education its "secret weapon."

The next SEPP seminar will be Wednesday, January 24 at noon in Judy Library (the one in Baxter) and will feature Diane Paul, political scientist from the U. of Mass. at Boston, speaking on "Genetics in Nazi Germany." Bag lunches are allowed at the seminars.

**Ex-Comm Meetings.** The Executive Student Committee meets over lunch every Monday in the Y Lounge to discuss future programs for the Y to sponsor. Come to find out what's going on and to enjoy some non-Board food and non-boring discussions (hopefully).

**Futures For Children.** The Caltech Y is offering reduced-admission tickets to this outstanding performance to be held on Saturday, Feb. 3rd at 8:00 pm. For more information about the program call (818) 355-1070, or contact the Y.

## Worms and Time Travel

by Ali Mortazavi

How does a theoretical physicist study and think about such an exotic topic as "closed timelike curves arising out of wormholes" (grossly modo, space-time travel, possibly in the past)? This will be the theme of professor Kip Thorne's Watson lecture this coming Wednesday at 8 pm in Beckman Auditorium.

He will discuss the use of thought experiments in the exploration of the frontiers of theoretical physics and will use the rather "ground-breaking" example of time travel to vividly illustrate some results of this thought process.

However shocking and mind-boggling as the use of time travel sounds, this is all a very serious (this is not *Back To The Future*)

and insightful way of exploring the uncharted seas of quantum gravity, the sub-field of physics concerned with the incompatibility of general relativity and quantum mechanics, as well as to test the causality problems of time travel (e.g. what if you went back in time and assassinated your own self?).

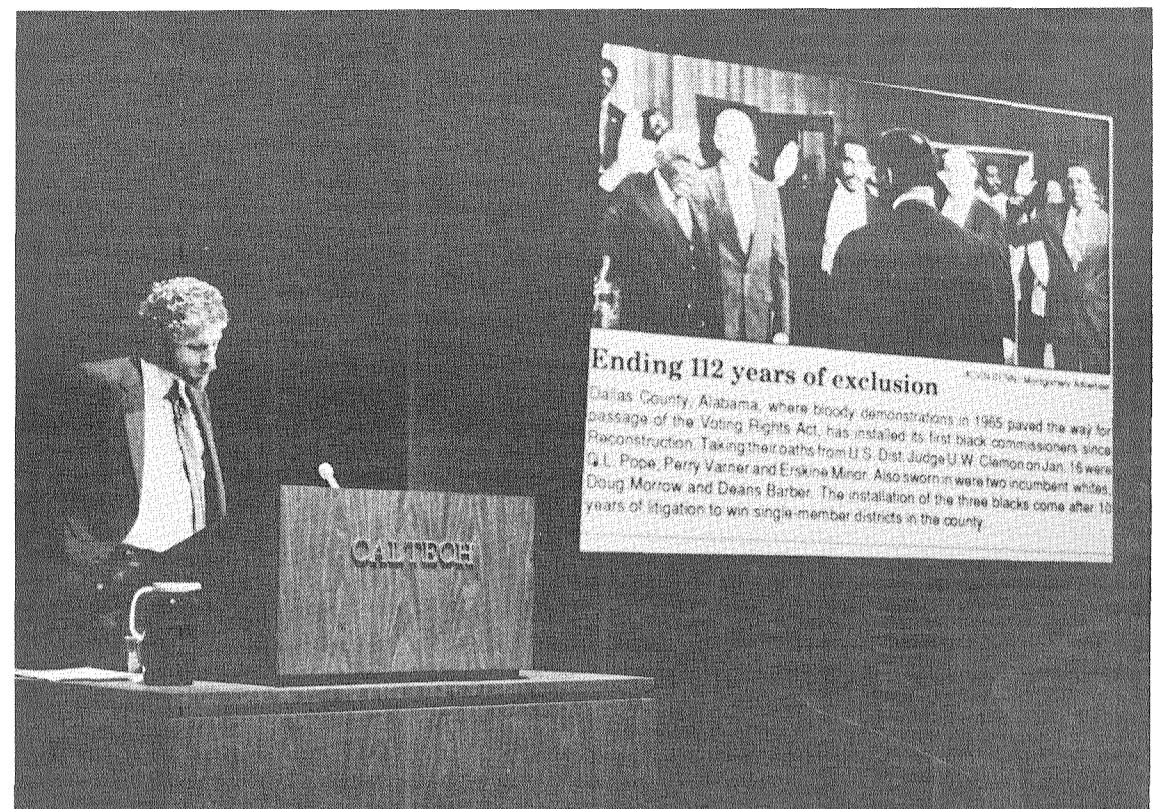
Thorne, one of the most eminent physicists at Caltech, if not in the world, has spent lately a good deal of time studying wormholes ("tunnels" between different points in the case of a multiply connected space-time) and the possibility that an AAC (an Arbitrarily Advanced Civilization) could use them for space and/or time travel. One word of caution though: even if time travel was possible, don't expect it to happen anytime soon; it will take centuries of diligent work by scores of engineers and space explorers to

make wormhole-travel a reality.

If the fact that one of the most preeminent men in the field of general relativity is going to give an introductory level lecture (no physics required) this coming Wednesday on scientific thought, as well as on what could obviously turn out to be one of the crowning achievements of science in the history of mankind, does not interest you, then you have no business being at Caltech. Any other university on the planet would have been sufficient to satisfy your craving for masochistic independent-study in any field; Caltech's edge is that it can expose you to the frontiers of research and of human thought. Considering how most Watson lectures tend to packed, try to get there early to get a seat and to go where no others have gone before.

## Basketball Stats

page 11



Dr. J. Morgan Kousser speaks at last week's Dr. Martin Luther King, Jr. program.

## Communication Committee Convenes

by Chris Dunn

In the wake of the controversy prompted by recent events in the undergraduate houses, seven members of the Caltech community are attempting to educate perceptions of problems by engaging students in informal discussions following dinners at the houses.

The group, tagged the "Kiewiet-Rogers Committee," issued from a memo sent by Ted Rogers, IHC Secretary, to Gary Lorden, VP of Student Affairs, on behalf of the IHC suggesting the formation of "an ad hoc information-gathering committee." That its origin lies in student initiative may lend credibility to its purpose of repairing what has been called the "communications breakdown" pervading the campus, and comments from the members confirm the sincerity of that goal.

Says Jennifer Remine, a Lloyd freshman on the committee, "It's helping to find out a lot about what the students think."

After sessions with the final houses, Ricketts and Page, the committee will report its findings

to both Lorden and the IHC. Rod Kiewiet, the eponymous professor of political science, favors an oral report. He notes the tacit finality of a written statement and insists that the present effort is "just the first stage" in the amelioration of student-faculty discourse, which ought to be robust given the notably commensurable ratio at the Institute.

Kiewiet will not divulge any details of the responses encountered until all seven houses have been visited, but he cites as the most important outcome that "we no longer

talk about the students and faculty as undifferentiated blobs of people who all think the same." He has been surprised by the diversity of opinion even within houses.

Rogers summarizes the views found on the campus: "There just needs to be better communication."

The committee members are available to hear remarks privately: Rod Kiewiet-x4032, David Van Essen-x6823, Mary Lidstrom-x2132, Jean-Paul Revel-x4986, Ted Rogers-Fleming, Jennifer Remine-Lloyd, Eric Candell-Ricketts

## Crime and Incident Beat

1/9 An attempt was made to break into a car parked in the Del Mar Parking Lot. While unsuccessful, the door sustained damage. Nothing was taken; the car did not contain a stereo.

1/10 A radio was stolen from a car parked in the Business Services parking lot; the auto was a convertible and the perpetrator entered by cutting through the roof.

1/11 A microscope was reported missing from Braun Lab. Normally the cabinet where it was located was locked, however was unlocked and the time of the theft. It was last seen in the lab on 10/1/89; the exact date of the theft is unknown.

1/11 Catalina I residents reported three persons soliciting in the housing complex at 19:05. Security approached them. The three had a permit to solicit, however they were advised that they were not permitted on campus. They were cooperative and left campus.

1/12 Security received a suspicious person call at 17:30: two persons dressed in military-type fatigues were looking at heavy equipment in the parking lot east of Steele and Watson. Officers investigating found no one.

1/12 A campus security electric cart began smoking as an officer was driving past the Winnett center. He stopped the vehicle, got a CO2 fire extinguisher from the bookstore and extinguished the small flame he found in the vehicle. Maintenance said the problem was a mechanical defect.

1/15 A professor in Baxter heard a crash and found that the building's snack area change machine had fallen flat on the floor. Investigation by security found that the machine was very heavy and had a secure base. Richardson Vending, the machine's operator and owner indicated they had recently given a number of refunds because the machine was malfunctioning. Security hypothesized that the machine had been knocked over by a disgruntled customer.

1/16 A security officer locking the southeast corner of Tournament Park at 17:50 encountered a person there. He was advised that while it was acceptable to be in the park when the gates were unlocked, he would be trespassing once the gates were shut.

Total dollar value stolen this week: \$20,600.

## Y News

**Distinguished Speakers.** The Distinguished Speakers Sub-Committee of the Caltech Y Ex-Comm has several thousand dollars still budgeted to bring distinguished speakers to campus. If you have any suggestions, contact the Y, Eric Stout, or Craig Volden.

How does a theoretical physicist study and think about such an exotic topic as "closed timelike curves arising out of wormholes" (grossly modo, space-time travel, possibly in the past)? This will be the theme of professor Kip Thorne's Watson lecture this coming Wednesday at 8 pm in Beckman Auditorium.

He will discuss the use of thought experiments in the exploration of the frontiers of theoretical physics and will use the rather "ground-breaking" example of time travel to vividly illustrate some results of this thought process.

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**ASCIT  
Statements**

**Election**  
page 2 and 3

**Jim's Journal**  
all over

# BOC Speaks Out

To the Editors,

The series of letters that appeared in the California Tech during the latter portion of first term clearly indicated a growing concern over the relations between students and the administration. The majority of the letters identified mis-communication as the number one cause for growing tensions and called for a campus wide effort to reestablish healthy lines of communication and discussion. To aid in this process, the Board of Control feels it is necessary to clarify a few misunderstandings that have surfaced in the recent months.

In particular, some of the letters in the Tech expressed a common, but incorrect, perception: namely, that the Honor Code and the Board of Control were completely ignored when the administration handled the incident connected with the undergraduate party. In fact, the administration contacted the Chairman of the Board in the early stages of the investigation as is commonly done when similar issues arise. At that time, Dr.'s Chris Brennen and Barbara Green expressed concern over the incident from the Institute's point of view and proposed a method of resolution.

In addition, Dr. Brennen voiced the opinion that if individuals approached the Board with personal concerns arising from the incident, the Board should fulfill its obligations to those individuals by considering each concern and acting accordingly. Since the Chairman felt that the course of action proposed by the administration would be more effective in addressing Institute concerns and legal issues than would direct involvement by the Board, it was agreed that the administrative investigations would continue. In this manner, the Board would be free to consider any personal conflicts internal to Caltech that could arise, particularly from the undergraduate student body.

Unfortunately, this isolated in-

cident inconveniently fell into the gray areas of jurisdiction. For well over two years, the Board of Control and the administration (particularly the Deans and MOSH) have been working together to develop a procedure to identify, on a case by case basis, which issues should be handled by which organization in order to best serve the interests of the entire Caltech community. Although broad guidelines had been generally accepted and utilized in the past, certain areas were left uncomfortably in the gray.

The need for a more encompassing set of guidelines was identified during third term of the 1988-89 academic year, well before the undergraduate party. Dr. Morgan, then serving as Vice-President for Student Affairs, organized a committee (composed of a variety of individuals including the Chairmen of the Board of Control and the Graduate Review Board) to begin the long process of developing a consistent Institute-wide policy for dealing with a variety of cases and identifying desirable jurisdictional boundaries.

The final policy was intended to balance the ideals and freedoms of the Honor System against the practical limitations of legal obligations, reasonable expediency of resolutions, and concerns for safety. Since a number of issues arising from the undergraduate party required immediate attention or a more focused forum for discussion, the committee formed by Dr. Morgan is temporarily unable to reconvene.

The incident of the undergraduate party has simply magnified the need for such a comprehensive plan. The application of the Honor System in such a circumstance was unrehearsed, and mistakes were inevitably made by students and administrators alike, resulting in decisions and actions difficult to reconcile with the ideal nature of the Honor System. It is imperative that communication and discussion

continue freely and unrestricted so that our efforts can be directed towards achieving a community that is truly guided by the simple trust of the Honor System.

Efforts have already begun with the Kiewiet-Rogers Committee assembled by Dr. Lorden and the Student/Faculty Conferences being sponsored by the Caltech Y and the Deans' Office. Such forums will be invaluable sources of the dialogue necessary for the pursuit of a unified campus.

In anticipation of upcoming discussions, it is desirable to address another common misconception. The Board of Control and the Graduate Review Board are often viewed as the sole guardians of the Honor System. Although such a view may have philosophical merits, it is a practical impossibility. The organization and structure of the Boards is powerful in dealing with a large subset of Honor System issues at Caltech. However, this same structure is largely ineffective or harmful in certain situations.

For example, a typical case requiring the attention of the entire Board of Control may take several weeks or months to resolve. Obviously, situations that pose an immediate threat to the safety of individuals require immediate attention. Less obvious examples in which the Board's role requires close attention include incidents involving emotionally or mentally unstable individuals; cases of rape; issues concerning non-internal concerns such as the Institute's legal liabilities and federal requirements addressing alcohol and substance abuse; and non-incident specific matters such as concerns of sexism on campus. All these issues still need to be addressed for the protection of our community.

In short, it is false to assume that the Honor System does not apply to an action or concern simply because the Board of Control or Graduate Review Board are unable to effectively address the issue. *Protection of the Honor System is also the responsibility of the administration, faculty, staff, and students.* Together, we need to develop policies to guarantee that any actions taken and resolutions reached by these different organizations adhere to the spirit of the Honor System.

In hindsight, the Board of Control realizes that the need for this letter has existed for some time and apologizes for our failure to produce it in a more timely fashion. It is our hope that its contents will spark additional constructive dialogue, thereby reconstructing much needed channels of support and reassurance. We encourage anyone with a question or concern to contact us at campus extension 6200.

Sincerely,  
The Board of Control

## Election Statements President

### Gary Eastvedt

ASCIT needs a facelift.

For too long, the ASCIT BOD has earned and maintained its image as a bunch of bylaw-breaking, munchie-eating, money-distributing nitwits. This is not to say that this description is accurate. It is not. But it does suggest that some changes are needed.

First of all, the BOD needs to go on a diet. Maybe if they ate raw meat instead of cookies at the meetings, they might be more focused and determined individually in their respective positions and as a group. ASCIT is a corporation and should be run more like one. With me at the helm, time and resources will not be wasted, meetings will be more productive, and goals will be set and accomplished. This is not to imply that the fun and magic will disappear but this way more people will benefit as the party rages on.

Sitting on the BOD for a year, I've had to listen to quite a number of complaints, the biggest one being that "ASCIT doesn't do anything for me." Well, that just is not true unless you spend every second of your life locked in your room developing a close relationship with a computer. For the rest of us, ASCIT does participate in our lives. Actually, we know that ASCIT does things for us but we don't know that we know. This is a problem and the reason why ASCIT needs a publicist.

A publicist could be created as a new office or incorporated into one of the existing offices such as Frosh Director at Large with the sole purpose of informing the Caltech community as to the events that ASCIT sponsors. In this way, everyone sees that they are receiving a significant return on their dues and the Caltech community can marvel at our achievements. This role could later be developed into some sort of liaison to other organizations as the BOD sees fit.

There are two issues that are rather crucial to the future of ASCIT and therefore very important to this election - relations and money.

The undergraduate life here in Hell is being threatened by forces from above. Though it is currently a time of peace, I believe that this could be the lull before the storm if we ignore or abandon the problems that exist. To date, the IHC has foisted the responsibility and burden of the communication breakdown between students, faculty, and administration and has done an exceptional job. Now it is time for ASCIT to step in and represent the student body as it should have from the onset to preserve our right to self-government and to improve rela-

tions with a faculty and administration that is willing to listen.

Finally, ASCIT needs money. ASCIT needs a lot of money. After serving as ASCIT Treasurer for the past year, I know intimately how desperate we are (for money). As it stands, ASCIT is only able to budget about one-half of the funds requested by clubs which is gravely insufficient. I can almost guarantee that there will be another effort to raise dues in the next year and

I can almost guarantee that a resistance will fend off the attack. With this in mind, we need to brainstorm some new avenues for income. Just off the top of my head, for example, we could take the check for 3rd term dues to Las Vegas and put it all on the field.

One roll. Happiness or homelessness. (Maybe this is a little extreme but at least it's a start.) Or how about we auction off some of our favorite people as slaves for a day. How much do you think someone would pay to have their rooms cleaned, dishes washed, and shoes shined by Bill Swanson (see ad this page), Dwight Berg, or Rich Reid? I see a potential goldmine.

I really haven't said too much about myself. Although I make light of almost everything, I'm serious about doing great things. Those who know me can attest that I'm sincere about making positive changes in student life and have the leadership ability to get the job done. For those who don't know

## THE CALIFORNIA TECH

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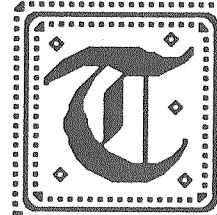


### ASCIT FRIDAY NIGHT MOVIE

#### The 5000 Fingers of Dr. Seuss

A  
Dr. Seuss  
feature  
film

of  
Dr.



With: Monsieur Pointu (or something like that)

Baxter Lecture Hall

\$1 for ASCIT members

7:30 & 10:00 p.m.

\$1.50 for others

Next Week: Bill & Ted's EXCELLENT adventure

# ELECTION STATEMENTS

me, I invite you to get to know me. I'm open to all suggestions and am not afraid to do something unconventional if it benefits the student body.

Please come to the Presidential debate on Sunday and vote for a redhead on Monday.

## David Geraghty

I spoke with Chris Brennan and Gary Lorden about what they wanted from the new ASCIT President. They both focused on improved communication between the student body and the rest of the world. The only way I can see to do this is to improve people's "ASCIT awareness." This is what I will try to do if elected.

There are two sides to this, the students' and the administration's. I would try to make the student body more aware of the tool ASCIT is, and encourage them to use it. I would also try to make the administration more aware of that there is a group elected to represent the student body, and that when changes are to be made at this school it would be nice if the group were consulted.

I feel I have shown my ability to do a good job by my actions as Junior Class President. I would really like the chance to make a difference as ASCIT President.

## BOC Chairman

### Kevin Luster

The Honor Code is the single most pervasive aspect of life at Caltech. It affects us in ways that many of us take for granted: master keys, easy access to labs and computer facilities, not being searched on the way out of the libraries, and an implicit trust between the faculty and students that enables most classes to have take-home exams and loose homework policies. The most notable difference that I see when I go to other campuses is the lack of trust among students with both the administration and each other. The Board of Control is necessary in order to maintain the freedoms and privileges that already exist.

As a senior I've seen Tech change over the years that I've been here; some of the changes I feel have been good, while others I have not welcomed. I'm concerned about the continually growing opinion on campus that the honor system has degraded over the years. Though there are problems with the current system at Tech, I believe that the solution is not a massive reworking of the student government structure, but instead directed efforts toward solving individual problems as they arise. Students and faculty need to work on solutions that don't end up either crippling the honor system or leading to mistrust between the students and the administration. Whatever these changes are, the chairman of the board is going to play a part in the decisions being made and is going to act as an intermediary between student concerns and administrative perceptions about student life. While on UASH and on the Board of Control I have seen differing viewpoints and a lack of information on the parts of both students and faculty. I feel that the chairman must be the type of person that can deal with faculty and can express the opinions and concerns of students and be able to work with both sides on reasonable solutions to the problems facing Tech. I feel that I have the experience and ability necessary in order to carry this out.

The chairman also works with

the secretary of the board in conducting all of the preliminary investigations and gathering all of the relevant material before board hearings. Many of the non-academic matters brought before the chairman are able to be settled without having to have a full board meeting—this requires someone who is able to listen to both sides of a dispute and work out a compromise between the people involved that they are satisfied with. The chairman also has responsibilities with ASCIT as their vice-president—he is involved with duties not related to the board and also takes over when the president is unable to. All of these jobs require that the chairman of the board spend a lot of time and be devoted to the job. As for time, I need less than 90 units over the next 5 terms to graduate, and would devote a large part of my time to the duties of the office.

As for devotion, I am concerned about life at Caltech and the honor system in general. Aside from UASH and the board, I have been involved with student life as a member of the food service committee and the campus computing organization, as well as being my house's senior upper class counselor. I would like to see Tech continue to maintain the ideals under which it was established. I feel that I have the abilities as well as both the time and the desire necessary to carry out the office of ASCIT vice-president.

### Craig Volden

The main job of the Vice President of ASCIT is to be Chairman of the Board of Control. I am running for this position as an experienced member of the Board, and as a student concerned about student government and the Honor System.

Last spring I was selected by the Board to be a Representative at Large. I have held that position for almost a year now. I consider at least one year of experience necessary for this position. Because our more-experienced representatives are soon graduating, I was asked to run for this office. As Representative at Large, I have been given more of an opportunity to serve a campus-wide role (more similar to the role of the Chairman) than the House Representatives have. With this experience, I am confident that I can do a good job.

The role of the Chairman is diverse. Primarily, and most importantly to me, the Chairman (with the aid of the BOC Secretary) takes care of the cases of possible Honor System violations which are brought to the Board's attention. This will be my main concern.

In addition, the Chairman must address larger issues. In times when the usage of the Honor System in non-academic matters may be questioned, it will be essential

for the Chairman to discover the views of the student body and relate those views to the Board and the administration. I will be strongly involved in any discussions about the role that the Honor System should play in the future of undergraduate life, and about the jurisdiction of the Board of Control.

As Representative at Large, I have been open and responsive to all views expressed to me. That will continue as my position with the Board changes. Above all, I wish to represent the students of Caltech of the best of my ability.

### Maneesh Sahani

We live in troubled times. I believe that the Honor System is today facing a critical challenge to its continued existence. The atmosphere of trust that is so very essential to a working ethical system such as the Honor System seems to have been seriously undermined, perhaps fatally. My primary goal as Chairman of the Board of Control, then, would be to lead the Board in an attempt to resuscitate this atmosphere of trust and preserve the Honor System. Action is needed, but it must not be hasty or ill-thought action.

I believe that the experience and qualities that I can bring to this task are valuable. I have sat on the Board previously, and as such have a good appreciation of the actual administration of the Honor System. I have also been forced to consider it more closely than most people on Campus have: when one must determine the fate of someone's career on the basis of a somewhat obtuse system of ethics one had better be assured that one understands it adequately. Furthermore, when on the board I have been active in non-case matters. I devoted much time to both the compilation of homework policy and the re-writing of the Honor System handbook, to name two. I also have an excellent working relationship with the members of the administration and faculty who deal most closely with how the Honor System affects students.

My experience on the Board of Control also provides the basis for the equally significant responsibilities of actually running the Board. I understand how the Board functions and would preserve what is a long-standing and much-tested tradition. It is impossible to stress too much how important this prior contact is.

The chairman also plays a very significant role ex-officio in undergraduate student government. To the ASCIT Board of Directors I would bring significant experience in student government as well as a fine relationship with the faculty and administration. I have already been involved with student-faculty communication. I have helped set up the student-faculty conference that is to begin in February and have attempted to work actively to bring various components of the community in better contact. I most certainly hope to continue this from the position of Vice President of ASCIT, as well as address the many other issues of importance to the undergraduate community that the BOD considers.

### Angus

As you all know, ASCIT is on the highway to Hell, and I, Angus Young can bring the ASCIT budget back in black cause I've got the biggest balls of them all.

If elected, I will cause momentous changes to occur at Caltech, that will shake you all night long. My financial policy is simple: broomball! All of ASCIT's money will be devoted to the best lookin' game that I ever seen. It'll be like givin' the dog a bone.

For those about to vote, I salute you! So remember: write in Angus!



## More Exciting Y News

**Student Fund Drive.** The Y sponsors Noon Concerts, Decompressions, discount tickets, sports activities, trips, activities of other clubs, speakers, volunteer work, Broom Ball, use of sporting materials and much more, in a highly COMMERCIAL-FREE format. We'll soon be asking you to help our funding by accepting a charge on your student account of five dollars per term. This is minimal compared to what you receive, and helps us considerably. Think about it.

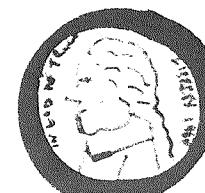
**Team R.A.C.E. (Really Anyone Can Enter).** Anyone who enjoys running or jogging should join up with this group. It meets every Wednesday at 4:30 pm at the Caltech Y.

Volunteer Tutoring. Such a large number of students have shown an interest in the Y's off-campus tutoring program that Jennifer Uray, head of our local tutorial efforts, will be making a presentation this Saturday (tomorrow) at 3:00 in the Y. We can always use more student involvement, and this is your best time to find out about the program. We'd love to see you there. If you cannot make it, but would like more information, call Golda Bernstein at x3739, or contact the Caltech Y.

The Caltech Y is located on the second floor of Winnett Student Center (the building where the Bookstore is). Our phone extension is x6163 (learn it, know it, use it).

Senseless campaign propaganda

You Want Change?  
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by Gary Eastveld

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## Jim's Journal



by Jim

## The Inside World

## Ruddock

It's been about four editions of *The Tech* since Ruddock's last Inside World. Ruddock had its 30th House election last week, after which Chris felt a crying need to run through the alley 1.5 doors without first opening them. Some house offices weren't read. Here's a few that were missed:

Matt Fetterman Most Excellent Onanistic Womanizer HMEOW  
Ahmed Serag Why Are Women Always Wishing Ahmed Had More Young Po-  
mona Underclass Sluts So Your Housemates  
Undergo Reasonably Terrific Saturdays

## HWAWAHMYPUSSYHURTS

Fatima Rolls Royces And Dark Is Can Attract Lustful Cats Hiding In Cam-  
pus Kitchens HRRADICALCHICK

Matt Fetterman How Often Would Zealous Individuals Tackle Girls of In-  
ternational Neighborhoods HHOWZITGOIN

Jing Bunnies Are Land's Secret Attack HBALSA

Jen Lustful Oversexed Vixen Expressing Her Altogether Sensual  
Needs Oblivious To Her Inner Network Getting Touched Or Delighted Obvi-  
ously Would Improve The Hard Shell Having Orgasmic Excellent Sex HLOVE-  
HASNOTHINGTODOWITHSHOES

Mateo I Was Initially Liking Letter Grades Except That Your Orgasms Used  
Real Sleep I'm Supposed To Expect. Rationale Dictates Rolling Under Nazi Killers  
HIWILLGETYOURSISTERDRUNK

Don't you think it's strange when your speakers start sending out strange noises  
at four a.m., especially if they aren't connected to anything? Just thought I'd check.

This is official "Shit Detector". The wavy lines are you trying to tell the other  
people in the room that you have no idea what the hell is going on. The detector

## SHITHEAD DETECTOR +

DIRECTIONS: 1) Cut the special detector out 2) If you didn't read the back  
before cutting it out, drop dead 3) Put the detector in the palm of your hand  
(clean hands preferably) 4) Pour a drop of water on the detector, and then some  
baking powder (not baking soda) 5) Hold the Detector for a moment. If it curls  
up, there are no shitheads in the room

-Dazed

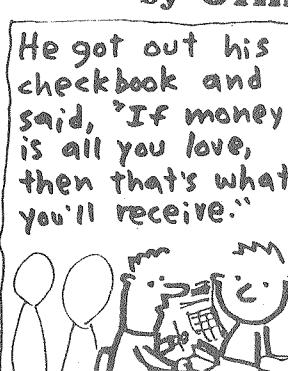
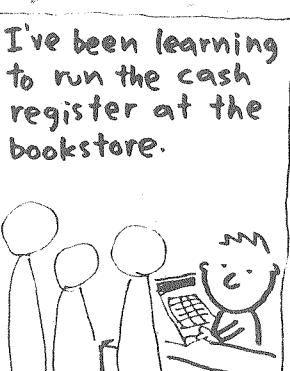
Blacker	25 0 5 0 5
Dabney	38 0 1 1 2
Fleming	20 0 3 5 8
Lloyd	27 0 6 0 6
Page	15 0 4 3 7
Ruddock	33 0 0 2 2
Ricketts	23 1 2 4 7

## Jim's Journal



by Jim

## Jim's Journal



by Jim

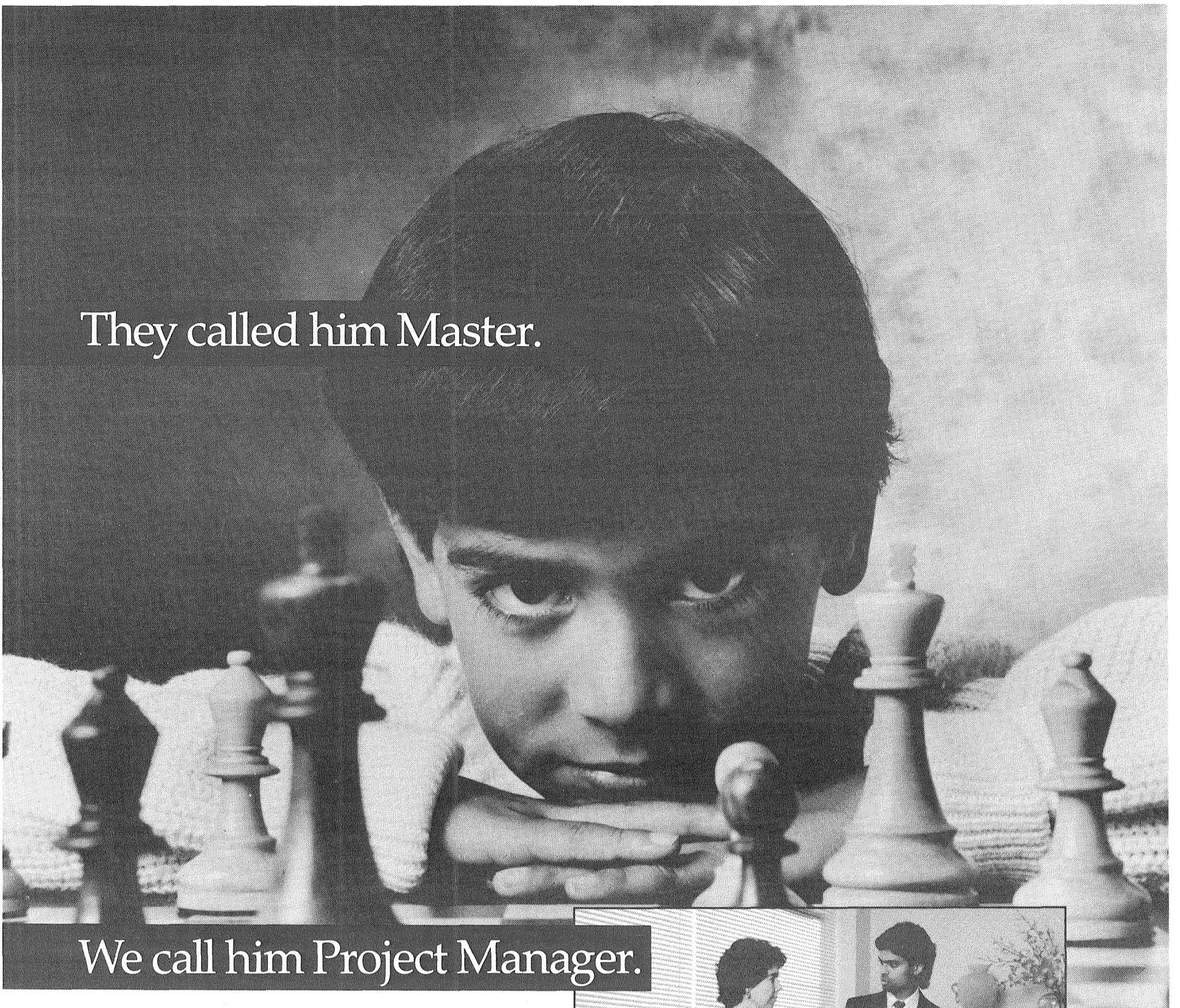
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## The Inside World

## Jim's Journal

## Ruddock

- Ruddock House Quick-Quiz
- 1) Nik is... (a) too busy to write the Inside World.
  - (b) too drunk to write the Inside World.
  - (c) congenitally insane.
  - (d) actually writing an Inside World, but it's not worth reading.
  - 2) Ruddock's Person of the Week is... (a) Dave Lin (for saving the Alley 5 kitchen-see below)
  - (b) Mateo
  - (c) Buford Frink (for posterity)
  - (d) Wait a minute...How did Mateo get in there?
  - 3) Ruddock's most Intoxicated Person (RIP) of the weekend award goes to... (a) Mateo
  - (b) Mateo
  - (c) Mateo
  - (d) All of the above

## Dave Carta's Pop-Tart Toaster Tips

- 1) Buy Pop-Tarts.
- 2) Find kitchen with toaster oven.
- 3) Place up to 2 Pop-Tarts in toaster oven.
- 4) Turn toaster oven on.
- 5) Leave kitchen, going as far away as possible.
- 6) Forget all about Pop-Tarts.
- 7) Wait for fire alarm to sound, then rush into the kitchen.
- 8) Act surprised.

## Chris Martin's on Showering Duppy

- (How to achieve maximum glass breakage)
- 1) Attempt to gain strategic position by sneaking around the back way.
  - 2) Find a pair of locked glass doors.
  - 3) Pull really hard.
  - 4) Repeat step 3 as necessary.
  - 5) Stare in utter disbelief at the carnage of glass.

This portion of the Inside World is dedicated to Ruddock's #1 Permafrost, the frost we'd hate to love, but love to shower...Ahmed.

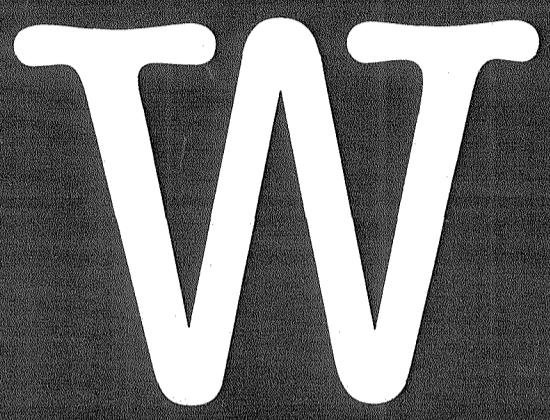
Until next week, and we will be back next week,

-Spiral and YAWP!!!



## Jim's Journal



A large, bold, white letter 'W' is centered on a solid black rectangular background.

# ould You Like to Add Anything?

Microsoft will be interviewing on campus for Software Design Engineers and Program Managers on

**February 16, 1990**

There are opportunities to work with our teams in Applications, Operating Systems, Networking and Multi-media. If you are about to graduate with, or are working towards, a Bachelor's, Master's or PhD degree in Computer Science, Electrical Engineering, Math, Physics, or related technical degree, then we want to talk to you.

Stop by and see us on February 15th at the Cal Tech Career Fair.

See your Career Planning and Placement Office for more details.

A lot of my friends went into aerospace engineering in the LA area. Now they fight the commute every day to work in a cubicle with either a terminal, a five-year old pc, or nothing at all. I drive to Microsoft along Lake Sammamish, through the woods from the house I just bought.

Microsoft demonstrates every day that its people are its most valued resource. Developers are given a comfortable working environment, with all the tools and freedom needed to produce their best work, as well as a campus that supplements the life of a developer. The campus is beautifully landscaped, with a basketball court (volleyball soon), foosball tables, kitchens in all the buildings and cafeterias in most. It seems that one could live at work. But because the Seattle area is so beautiful and affordable you don't want to."

*George Pitt, Software Design Engineer  
CalTech, '89, MSEE, '84, Math*

"I like the fact that at Microsoft I am treated like an adult. I am given a job, and it is expected that it will get done.

My job this summer wasn't easy, which is good. I wrote code to fix bugs found in the Mouse 7.0 driver. My code shipped with the product. I was surprised to learn that I would be able to apply so much of what I learned in school — like the Mouze-Nukles method of particle separation. It's a really intense, challenging environment, but it's also a lot of fun."

*Matt Giger, Software Design Intern  
CalTech, '90, Computer Science*

"Imagine what would happen if the CalTech CS majors formed a company. You'd end up with something akin to Microsoft—casual dress, casual hours, casual environment."

*Mike Rozak, Software Design Intern  
CalTech, '90, Computer Science*

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## Dabney

It seems as if nothing ever happens in Dabney House of any real notice any more. We haven't got into trouble with the administration for over a week, and there seems to be a general lack of purpose for house members. Example: Trux played a prank on Jon (L.) and then left a note for him. The problem was that the note said what the prank was. Where is the element of surprise? No one seems to have any drive anymore. I mean, I have about half the house lists still in my room, and most of the house lists that I have given out I gave to house "members" I never see around at any other time. Even last weekend's social events were pretty tame. That's tame, not lame.

The Mountain Trip was practically rained out. Rob's secret plan to make everybody wait for him failed miserably when Steve A. had the forethought to bring tableware. Of course, perhaps Rob is lucky that no one who promised to wait for him did—if he had ridden with Jennifer his additional weight might have been just enough to make Jennifer's out-of-control car slam into that other car coming from the other direction which she barely missed. (How's that for a run-on sentence?) Perhaps it would be a good idea to find a different ride than Jennifer the next time there's an out-of-town social event. Since it was cold and rainy in the mountains, the travelers decided to return to the only rainy foothills. Of course, rather than return to Dabney and be forced to share the pies with everybody else, they decided to be pigs and eat the pies in the rain a mile from campus. I hope you all get indigestion and pneumonia.

On Sunday morning five manly men and I went bowling. Boy, were they fools. Not only did they believe my story about only having a 125 average, but they also actually believed that Kwis W. had never bowled before. Boy, we should have bet them money. Of course, once Kevin showed up it was all over. Kevin, who also had bowled "only a few times", came home with a 183 and everyone's ardent admiration. Honorable mention goes to Tracy and his "tiptoe through the tulips" approach and Yair, who finished last every single game. You're only supposed to get under 100 in golf, Yair. We learned the perils of playing 4-player Gauntlet with a man who can only move to the right, too. All in all, we had a good time—and the diehards will probably go next time at 8 am on Sunday so they can bowl cheaper.

Couples News: Maneesh and Sayuri were seen together late one night this week. The more things change, the more things stay the same. Dave Stevens' Bimbo of the Month's car was almost towed away from the Sync lot recently. Maybe she could get a handicapped sticker—everybody else seems to be doing it. All this reporting I did last week about Amy and Seth, and then I hear from an unreliable source with a thick Elmer Fudd accent that there was a man here this week boning (no one can ever say that I am afraid to use the verb "to bone" in my Inside Worlds) Amy, and then at roompick time she turns around and decides to live with Rich Zitola! You figure it out.

Speaking of the roompick, what a one we had. With the entrance of Rich Z., the Law of Conservation of Riches (no, that isn't some sort of economic principle) was obeyed. Seth, after going through everyone else, finally got Dabney Roommate #4 (is that a new record?) in Brad, the very last freshman he could ask. I guess the RAs will never get Seth's voice out of their bedroom at night. And now they'll start dreaming about someone who keeps saying, "I'm confused." How in the hell did Steve Thompson, a freshman, get room 12, a room which last year only a senior could pick? Boy, Steve T. owes Brad a big favor for that one. Everyone seems to be too damn complacent about their rooms. Who would have thought that half of the occupants of Alley 3 would be freshmen and sophomores? Of course, Jon M. could have had 12, but he preferred to live in his far superior room in Upper 7. Rumor has it that he wants to "chase a piece of ass." Why didn't he pick room 40 so that he could be right across the hall?

Social Event of the Week: Initiations. Meet in the courtyard around 7:45 Saturday night. Remember, we only lose one initiate per year, so you only have a one-in-thirty-five chance. Bring a PILLOWCASE and a TOWEL, frosh, and wear shoes, GÖD DAMN IT!

My fans have kept clamoring for a return to the good ol' formats of the past, so I am proud to announce:

## The RETURN of the Dabney House Potential-Well Shaped Probability Curve

The probability that...	Is...
We will have another roompick before I'm out of office	20%
Benture will ever leave Dabney House	4%
The Psychotic Del Taco Quadruple will last over a month	11%
Seth will have another roommate at the end of the term	99%
The Geology Basketball Team will win a game	10%
Buttlicker will actually get a "piece of ass"	5%
Maneesh will nominate himself for all the house offices	75%
Maneesh will be elected for any house office	5%
A Darb will, given the opportunity, plunge his foot down his throat while speaking	99%
All of the new Darbs will make it through Initiations alive	20%
Rahul will be involved in Raghav's initiation	
(Mike G. gave me this particularly stupid one)	85%
My car will start when I want to go somewhere	50%
Jon H. will ask Jackie to make and give him a copy of an X-rated videotape of her and me	1%
Riki, if elected, will get a rap DJ for our first party	50%
This house will win a Discobolus challenge	3%
We will ever see the Discobolus trophy, even if we win	0%
Anyone will ever be able to find the missing Discobolus trophy (Who would want to steal such an ugly thing, anyway?)	1%
An unauthorized cat will be in my room when I open the door	50%
A sports story will not be on the front page of this paper	10%
Eric Schell can be found in the lounge reading <i>The Economist</i> , <i>The Wall Street Journal</i> , or <i>The New York Times</i>	99.9%
Seth will be able to identify the U.S. on a world map	33%
I will stop writing Inside Worlds after my term ends as secretary	0%

-Long Ago and Darb Away

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## The Inside World

## Fleming

In keeping with Fleming Inside World's reputation as a hallmark of peer review and one of the most highly respected revered scientific journals in the South Houses, we are very pleased to present excerpts from this week's original research from AOIT (Alley One Institute of Technology):

"Microwave oscillation and power transmission in Idaho Russets under high voltage conditions and Tabasco" Maddux, Duchovnay, Lew, Nordstrom, Smith, Boswell, et al.

*Operation of 100W lighting fixtures through potato power transmission media in high-intensity microwave environments has been observed, as well as heating characteristics of Potato Power Resonator Cavities (PPRCs) under high voltage excitation.*

This particular series of research began as a result of purest serendipity. Drs. Maddux & Nordstrom, in conference with Dr. Duchovnay decided to observe characteristics of a Ph1 flashlight bulb under high-powered microwave excitation. Upon successful placement and activation of the experimental apparatus, Dr. Lew was heard to observe, "Hey you pieces of shit! That's my lightbulb! Get that the hell out of the microwave--Jesus Christ, it's fucking glowing!! What the HELL are you guys doing!? Give me that back...OUCH!!! THAT FUCKER'S HOT!!!" At this point, it was obvious that the experimental possibilities were unlimited.

Dr. Maddux acquired a control subject from the tuber family of root vegetables. Unable to procure a turnip, he used a potato. Placing both the potato and a 100W light bulb into the microwave, he observed fluorescence in the bulb, but the potato stayed dark. The team had achieved a scientific breakthrough...

...after placing the bulb into the potato and subjecting both to microwave excitation, Dr. Duchovnay observed the potato acted as a power absorber, storing up microwave energy for re-release into the light...

...after plugging one electrode into the Potato Power Resonator Cavity (PPRC), the other was placed on the side of the bulb. Applying a potential of 7500V, arcing and destruction of the bulb ensued. Dr. Lew's astute observations accurately summed up the results of the experiment: "Hey, you crazy assholes!! CUT IT OUT! Don't bring that thing in MY room! CHRIST that REEKS!!!!"...

...we found adding Tabasco to the PPRC greatly increased its conductivity, while small amounts of Dr. Duchovnay's vodka proved to be quite flammable. Dr. Lew's introduction of explosives into the PPRC sprayed the surrounding area with Tabasco, prompting him to note, "Oh SHIT! It's all over the goddamn coffee table now!" We were unable to get the PPRC to pop popcorn, however...

...perhaps most interestingly, the addition of several handfuls of coffee to the PPRC while under high voltage produced an odor of burning coffee that seemed quite persistent...

Next week: "Icewater diffusion and the positive column," Keny, Koehler, and Biswell.

Back on the home front, the frosh are whining. "Fuller sucks!" they say over and over until I'm really sick of hearing it. I took his class. I already know he sucks. At any rate, according to our whiny Ma1 victims (the frosh and Humphreys, that is), Fuller can...

...stick his 38 foot pointer up his ass.

...drop a bowling ball on his tongue.

...eat his beret.

...STOP PRETENDING HE'S BATMAN!!! (the utility belt doesn't fool anyone)

They also say maybe (or, perhaps hopefully) Fuller will...

...trip and fall down 62 flights of stairs.

...get his head stuck in a moving chalkboard.

...make up his mind about the homework policy BEFORE finals week /This one's unlikely. --Y.F.J.

At any rate, a big thanks to everyone who's been out at the alumni phone calling recently—the house can REALLY use the \$1000. In your honor, we have this week's top ten list:

## Top 10 Alumni Phone Calling Responses

10. "Call me back in 45 minutes when my TV show is over."
9. "I only give to charities in November."
8. "I'm sorry, I'm paying off my furniture right now."
7. "Hi, this is Pierre..."
6. "This is his ex-wife. I don't give a fuck WHERE he is."
5. "My wife is an invalid; we have no money."
4. "Please take his name off the list he's hospitalized, and we don't expect him to recover."
3. "My husband has a brain tumor and can't come to the phone right now."
2. "There must be some misunderstanding. I am NOT proud of the one year I spent at Caltech."
1. "I wouldn't give a Caltech ONE DAMN NICKEL!" (Number 10 later pledged \$15)

Quotes of today:

"Grab it. Grab it! SOMEBODY GRAB IT!!"-The Dragon

"We only Kicked it until it started to give, and then we stopped."-Clueless Alley 3 Loser

"If I wanted lip from you, I would've unzipped my pants."-The Alley 5 Pedophile  
"What was the question on bestiality?"-The Alley 1 Farmboy  
"My name's the Beay, and I'm a big fag."-The Flying Dutchman  
"Well, kids, see y'all next week. Gotta get back in the water. Mahalo."-Young Fansome, Buddy®2 & HOAXstra

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## WEEKLY SPORTS RESULTS

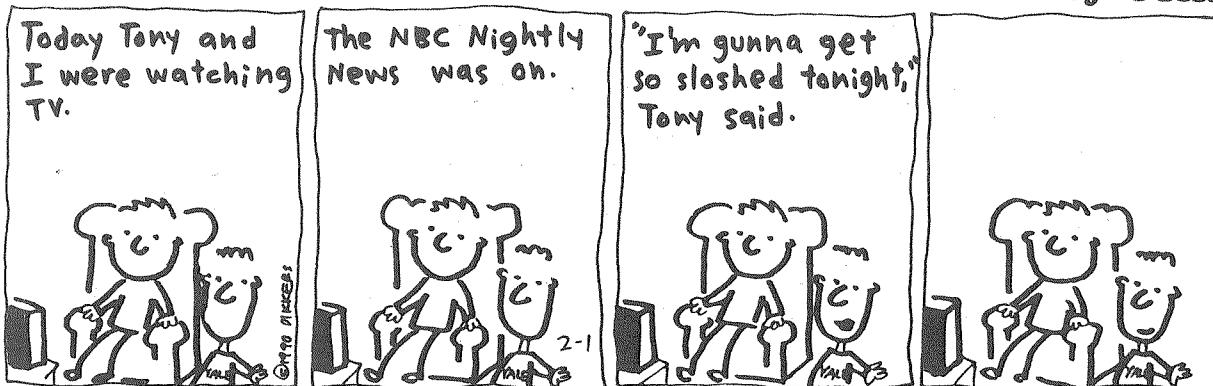
Day	Date	Sport	Opponent	Results
Sat.	1-13	Basketball	Pomona-Pitzer	31-64
Sat.	1-13	Swimming	CMS & Redlands	vs CMS (M) 54-140, (W) 12-154 vs Redlands (M) 86-113, (W) 31-64
Wed.	1-17	Basketball	Claremont-Mudd	51-81

## WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Sat.	1-20	11:00 am	Swimming (M-W)	Occidental	Occidental
Sat.	1-20	1:30 pm	Tennis (M)	Scott Tournament	Caltech
Sat.	1-20	6:00 pm	Basketball (JV)	Whittier	Caltech
Sat.	1-20	8:00 pm	Basketball (V)	Whittier	Caltech
Tue.	1-23	3:00 pm	Tennis (M JV)	Scott Tournament	Caltech
Wed.	1-24	6:00 pm	Basketball (JV)	Occidental	Caltech
Wed.	1-24	8:00 pm	Basketball (V)	Occidental	Caltech
Thu.	1-25	3:30 pm	Swimming (M-W)	Colorado College & Occidental	Caltech
Sat.	1-27	11:00 am	Swimming (M-W)	Whittier	Caltech
Sat.	1-27	12 noon	Basketball (JV)	La Verne College	La Verne
Sat.	1-27	1:00 pm	Fencing	Occidental & UCLA	Caltech
Sat.	1-27	1:00 pm	Tennis (M)	Southern California College	So. Cal. College
Sat.	1-27	2:00 pm	Basketball (V)	La Verne	La Verne
Sat.	1-27	2:00 pm	Tennis (W)	Christ College	Christ College

## Jim's Journal

Today Tony and I were watching TV.



by Jim

## Jim's Journal

Today Tony visited the people who live next door to us.



by Jim

## Jim's Journal

I'm taking a class called Europe in formation.



by Jim

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## CMS 81, Caltech 51

	fg	fg	ft	rebounds							
	pts	m-at	perc	m-at	df	of	A	Stl	Blk	TO	
Swanson	21	10-13	76.9	1-3	9	5	0	0	0	2	
Ahle	11	4-15	26.7	0-0	3	0	2	1	0	6	
Karceski	7	3-6	50	0-0	2	0	3	2	0	1	
Ralph	6	2-9	22.2	2-3	0	1	3	1	0	4	
Creath	6	3-6	50	0-0	0	1	0	0	1	0	
Oslakovic	0	0-2	0	0-0	3	2	7	1	0	0	
Kollmorgen	0	0-3	0	0-0	0	0	0	0	0	1	
Totals	51	22-54	40.7	3-6	17	9	15	5	1	14	

## Season Stats

	fg	fg	3pt	fg	FT						
	pts	m-at	perc	m-at	m-at	m-at	rebs	A	Blk	Stl	
Karceski	131	49-106	46.2	23-45	10-18	34	20	0	14		
Swanson	124	52-109	47.7	0-0	20-38	69	7	7	3		
Ahle	90	34-87	39.1	13-38	9-12	28	31	0	10		
Ralph	54	19-65	29.2	8-20	8-20	33	22	0	6		
Oslakovic	48	21-51	41.2	3-4	3-4	22	34	0	4		
Creath	19	8-22	36.4	0-0	3-7	14	5	8	3		
Kollmorgen	15	6-23	26.1	0-0	3-7	20	8	1	2		
Duncan	5	2-11	18.2	1-6	0-1	1	0	0	0		
MacLeod	4	1-2	50	0-0	2-10	9	0	1	0		
Philippakos	3	0-1	0	0-0	3-4	2	1	0	1		
Wiberg	2	0-3	0	0-0	2-2	5	0	0	0		
Pottenger	1	0-0	0	0-0	1-2	0	0	0	0		
Boswell	0	0-1	0	0-0	0-0	0	0	0	0		
Totals	496	192-481	39.9	48-113	64-125	237	128	17	43		
SCIAC Totals	99	41-99	41.4	8-26	9-21	49	30	5	2		

## Can Chem 1 lead to Millions?

[IRC]-Remember the story of Apple Computer's beginning? Are you an aspiring garage chemist hoping to build a multi-billion dollar company around your knowledge from Ch1? In that case you may want to attend one of the Caltech/MIT Enterprise Forum Start-up sessions. Three new companies will present their business plans at Caltech at 9:00 a.m. on Saturday, January 20 in Baxter Hall. The audience is also given the opportunity to ask questions. Continental breakfast will be served from 8:30 to 9:00 a.m. at Baxter Hall. Reservations are required.

The Caltech/MIT Enterprise Forum grew out of a series of workshops conducted by the MIT Alumni Association in Cambridge and New York in 1971. Motivated by the nationwide success of these workshops, the Forum was formed in 1984 as a joint venture of the Caltech Industrial Relations Center and the MIT Alumni Association.

The Caltech/MIT Enterprise Forum is made possible by the financial assistance of recognized companies such as Arthur Andersen & Company, Coopers & Lybrand, Deloitte & Touche, InterVen Partners, KPMG Peat Marwick, and Price Waterhouse.

# La Grotta di Capri

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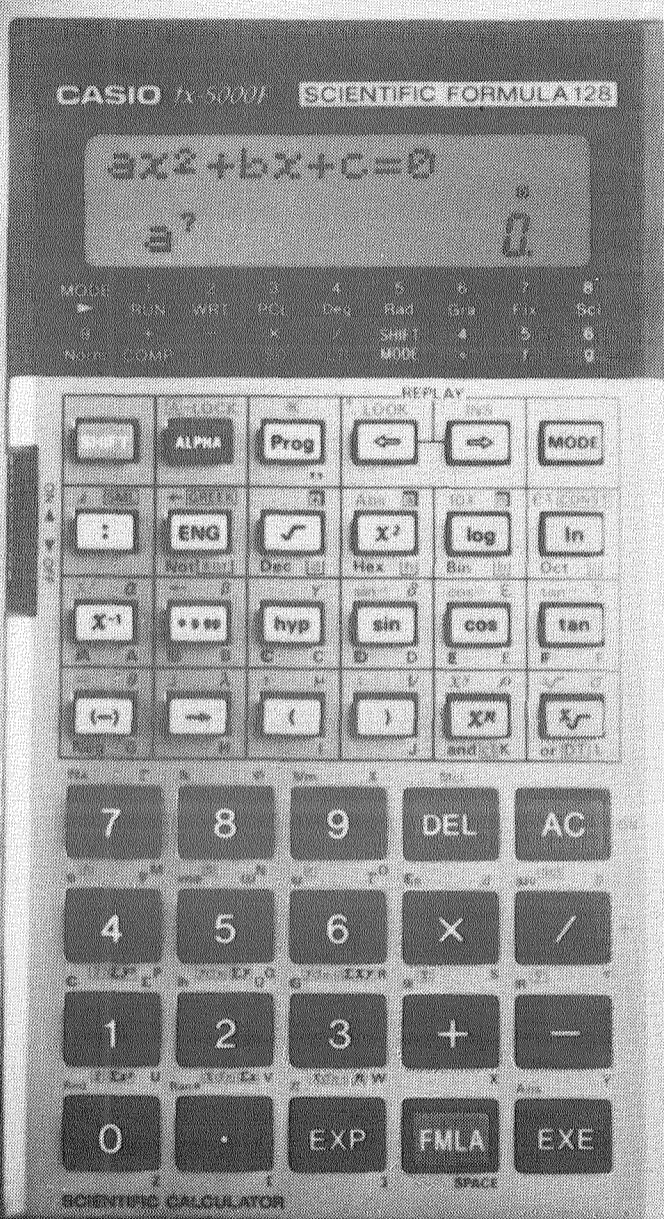
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# Write in Angus!



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alpha-numeric display with 10 digit mantissa plus 2 digit exponent is easy to read and scrolls to over 70 characters. Its two-line display shows both the formula and the answer simultaneously.

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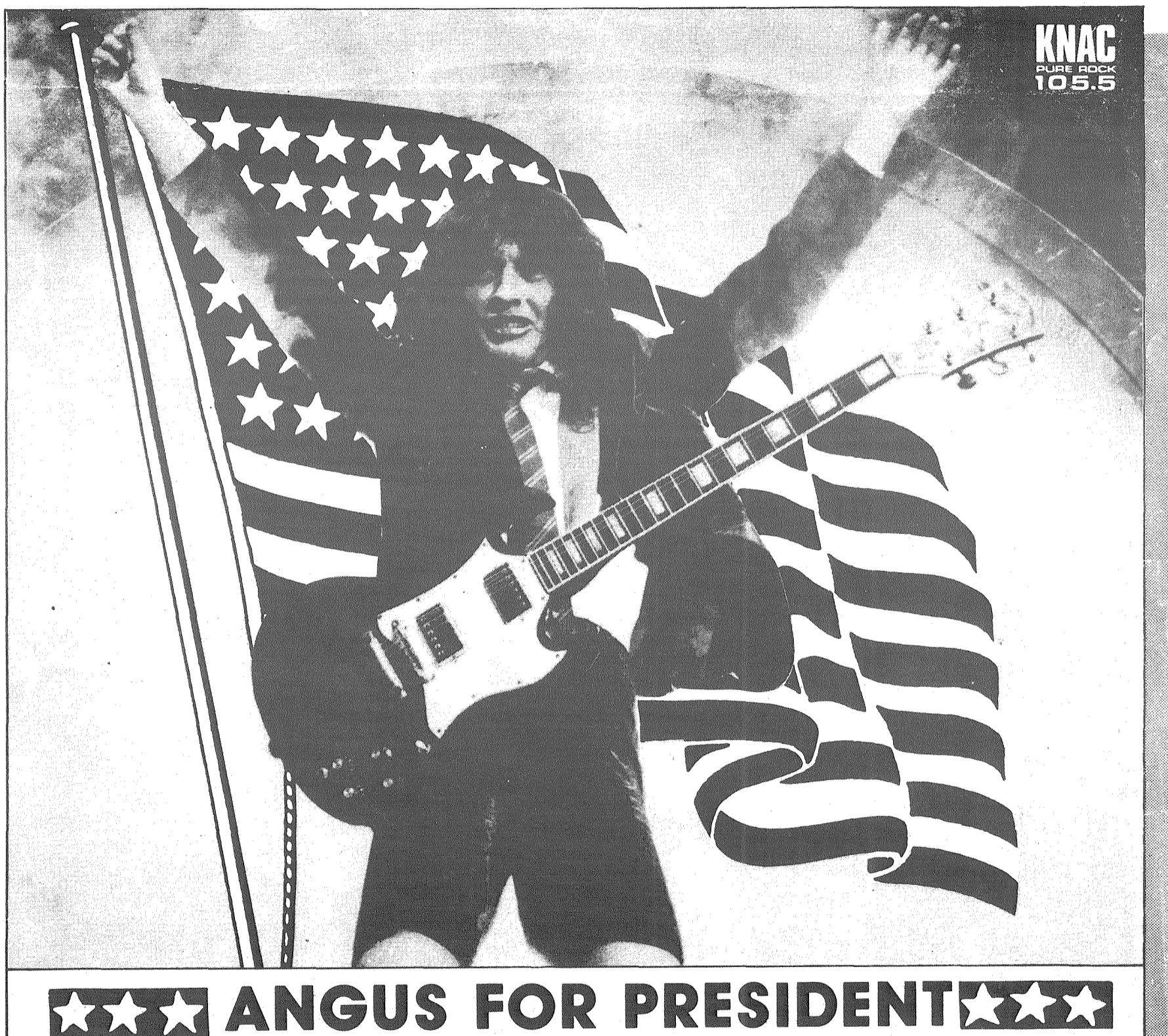
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**Jim's Journal**

by Jim

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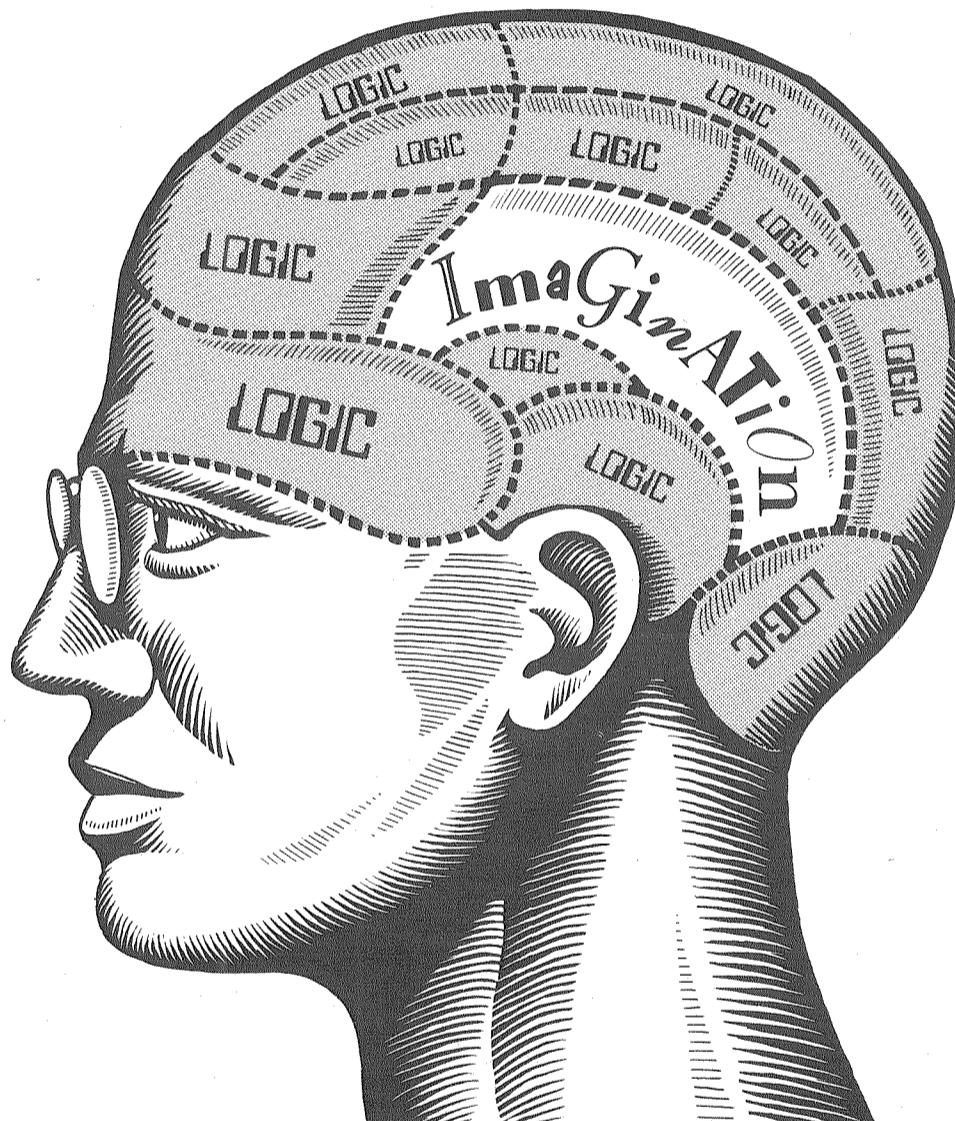
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# Tech Meeting

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Scott Kister (27-17)	Penn St.	Indiana St.	Florida St.	UAB	Detroit	Temple	Louisville	Illinois	Indiana	Minnesota
Mark Lytle (25-19)	Penn St.	Indiana St.	Miami	UAB	Marquette	Duquesne	Louisville	Illinois	Indiana	Minnesota
Paul Socolow (25-19)	U Mass	S Illinois	Florida St.	UAB	Marquette	Temple	Louisville	Illinois	Indiana	Northwestern
	Dayton at St Louis	Xavier at Evansville	NC State at Wake Forest	S Florida at S Alabama	Utah at Wyoming	New Mexico at San Diego St	USC at California	Utah St. at Pacific	Washington at Oregon	UC-Irvine at UNLV
Scott Kister	St Louis	Xavier	NC State	S Alabama	Wyoming	New Mexico SDSU	California USC	Utah St. Utah St.	Washington	UNLV
Mark Lytle	St Louis	Xavier	NC State	S Alabama	Utah	SDSU	USC	Utah St.	Washington	UNLV
Paul Socolow	St Louis	Xavier	NC State	S Florida	Utah	SDSU	USC	Utah St.	Washington	Hawaii
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Ricketts

When I had travelled half of Tech's way, I found myself without purpose, questioning the value of my studies. I saw the way out above me, the glorious object of my quest, the Diploma. But blocking my way were three beasts: Ma108, Ph106, Ph77. Each was more terrifying than the last. As I turned to retreat, I saw a form approaching, with long hair hanging about its shoulders. I realized as the shape came closer that it was Ross.

"What do you want?" I demanded.

"I have come to show you the fate of your peers, that you might regain your confidence and write a bad parody of Dante," he answered.

"Right. Now what do you really want?"

"Just follow me."

He led me down into the steam tunnels, and after winding about for a while we passed into a side tunnel and emerged upon a vast plain. In the distance stood a great battlement. Over the gate leading inside was an inscription: **Abandon all sleep, who enter here.** Running around the walls were a great number of people, many wearing yellow shirts, being stung by insects.

"I suppose this is Hell, and those people are the Apathetic?" I inquired.

"Yes. Hell appears differently depending upon who looks at it. You may find some differences from Dante's description," replied Ross.

We continued on through the gate and entered the first ring. My guide said, "This is my proper level, Limbo. It is reserved for those who have lived a virtuous life but were censured by the administration."

"How did you manage to hack off the administration?" I asked.

"Bad timing. You will likely hear more of it later."

Continuing on to the next circle we found Kitt. She had taken on some feline aspects and was stuck inside a large box. On the ring below, only 10 feet down, were a large number of men with rulers. "This level holds the Lustful. That is the Kitt-cat in a box," Ross stated. "Those men below are her suitors, the Glommers. When one succeeds in measuring her, her wavefunction will collapse, and he will have won her heart. The others will spend eternity doing quantum problems."

"That sounds pretty stupid," I commented.

"It's your metaphor. Don't blame me."

Walking on past the Glommers we came to a different section of the pit. George was standing off to one side; also a large oriental man wearing a big lampshade on his head and holding several swords, two of which drooped a substantial amount. Many others also wandered this level, all of whom appeared completely without clue. My guide remarked, "These are the Frosh. The rest of their existence will be spent in a state of oblivious confusion."

"I didn't think that being a frosh was such a bad thing. Surely it isn't worse than glomming."

"Of itself, froshdom isn't so bad. It can be cured. But these people never got over their Froshliness. The Frosh are placed lower than the Glommers because whereas a Glommer is extraordinarily annoying to one person, a Frosh is extremely annoying to everyone."

Then the Frosh in the lamp shade approached and said, "I have a warning for you. Beware of the wild man, for he will cause much trouble for the students." I puzzled over his words for a bit, but my guide urged me to continue.

Among those on the fifth portion of the Inferno was Rich Reid, crushed under the weight of a giant bronze statue. The form of the statue was obscured by mud, but it appeared roughly egg shaped. "Here we see the Thieves, oppressed by what they have stolen. Rich will never forget the magnitude of his crime against the Bust!" cried Ross.

"The Bust?" I queried.

"You will learn of it later. Now we must continue."

The next level contained a number of people with glasses, pocket protectors, and briefcases. One approached another and I overheard him say, "Imagine a function differentiable everywhere, yet integrable nowhere." Then both laughed uproariously. Along the ground slithered serpents.

"In this circle, the Geeks and Snakes reside," Ross said. "They are punished for their inability to interact positively with their fellows."

"But where is Leopold?" I asked. "I would have expected to see him by now. Is he one of these snakes?"

"No, he is further along. We will meet him shortly."

Onward to the seventh circle we pressed, whereupon I immediately ran into Leopold, Carlos, who seemed a bit pale, Dinky, and a tall man in a tie-dyed shirt whom I did not recognize. They were engaged in a lively discussion, which they momentarily interrupted as we approached.

"My +98 katana has revealed all to me. The houses of your guide will be plagued by a rock climber with excess hair," said Leopold. "Be watchful of the pronouncements from on high."

"Now just a minute, Leopold," interjected the tall man. "Don't you think that maybe the administration has our interests at heart?"

Carlos responded, "Be real. The administration is just a bunch of peenworms."

At this they all began bickering with renewed energy. Ross said, "Let us leave the Argumentative to themselves and continue to the next ring."

Climbing down the next slope, I saw a number of people without faces. Their heads darted back and forth, and their furtive movements gave an overall impression of paranoia. "These are the BOC'ed, forever mistrustful of each other yet preserved in anonymity," my guide related.

Descending down to the bottom, we found a collection people apparently doing construction work. They busily placed large brightly-colored blocks in complicated patterns, but every time they completed an entire layer it evaporated and the entire structure crashed down. Among those engaged in this activity I saw Diana, Janice, and, to my surprise, Carlos. Turning to my guide I asked, "How can Carlos be here when we already met him above with the Argumentative? And what have these people done that condemns them to this fate?"

"Carlos' presence is necessary for the punishment of the others on the seventh tier. He maintains and amplifies the arguments of the other damned. His true crime is much greater. The bottom of the pit is reserved for those who freely gave themselves over to the greatest evil. These are the TETRIS Players!"

"What is this crime, that so condemns those who commit it?" I inquired.

"TETRIS is the ultimate sin, a criminal action to heinous to imagine. It is a vile Communist plot designed to sap our precious bodily fluids and corrupt our minds. Never allow yourself to be influenced by it."

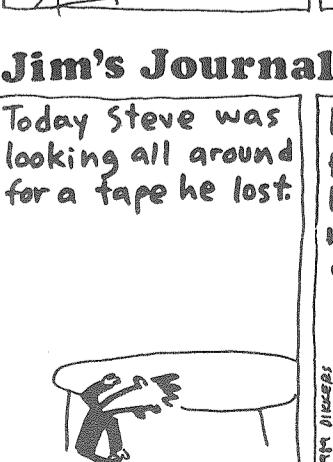
Then Ross led me over next to one of the bottom layer blocks. We waited a few minutes until the layer was completed, and when the blocks disappeared we were transported into a section of the steam tunnels again. He led me through a few passages, and we emerged into Millikan just as the stars were about to fade.

-The Physics Messiah and his close, personal friend, D.A.

## Jim's Journal



by Jim



by Jim

## what goes on

### Leadership America

The International Leadership Center is seeking applicants for the fourth session of Leadership America, a summer program which will begin June 8 and conclude August 16. During that period, the students will attend sessions that take place at Duke University, Colorado Outward Bound, Southern Methodist University, and in Washington D.C. In addition, there is a four-week, self-selected internship in business, government, or community service followed by a closing session.

Students incur few expenses in Leadership America, since most costs are underwritten by corporate sponsors.

To be eligible for selection to Leadership America, a student must be currently enrolled in a four year (or more) undergraduate program and have completed the junior year of this program by June 8, 1990.

The primary criterion for selection is that a student have an "outstanding potential for leadership." Selection will begin in February, 1990, and invitations will be extended in mid-March.

For additional information about Leadership America, contact the Deans' Office, 102 Parsons-Gates, x6351. Applications for this program must be returned to the Deans' Office no later than Monday, January 29, 1990.

### Be In The Top Ten

Caltech juniors are invited to participate in Glamour magazine's 1990 Top Ten College Women Competition.

Glamour's prestigious competition honors college juniors of outstanding achievement. This year's winners will be selected from five distinctive categories: Creative Arts/Communications/Humanities, Science and Technology/Health, Politics/International Relations, Business and Economics/Entrepreneurship, and Public Service. Candidates will be judged on academic excellence, involvement in community or campus activities, and personal interests.

Ten winners will receive national recognition in Glamour's October 1990 issue and in media across the country. Contact the Dean of Students Office for information. Deadline is February 1, 1990.

### L.A. Philharmonic Tickets

The Caltech Y has L.A. Philharmonic tickets at \$5 each for the following dates: April 1, 8, 15, 20, 27. Come by the Y for venue info.

### OASIS Galileo Talk

Robert Gounley of JPL will present a lecture on NASA's unsinkable Galileo project. Included will be details of the mission plans for scientific investigation in transit to and at Jupiter. This free lecture on Saturday, January 20 at 7 pm, is brought to you by OASIS, a chapter of the National Space Society. The lecture is hosted by JPL in the Von Karman Auditorium at 4800 Oak Grove Drive. For more information, call (213) 374-1381 or (818) 568-0546.

### Do You Have Writer's Block?

As most students have realized, the process of writing can be one of the most frustrating, lonely and exciting experiences we have. In particular, writing for academic audiences, toward a deadline, or for the scrutiny of an unpredictable committee can cause a number of painful issues and feelings to emerge—and often with no one but a screen and a keyboard to talk to. Moreover, there are few challenges as great as creating content and coherence out of the void of a blank screen, notepad, or brain.

To help weather and share this wide range of experiences, Martine Van Milders, M.A. and Dr. Jon Pedersen will be leading a supportive discussion group for those students who identify with the descriptions above. This will not be a writing technique workshop, but is meant to provide support and some ideas about freeing up the writing process. Martine is currently writing her dissertation on writer's block and creativity.

The group will meet for seven weekly sessions, from January 17 [yes, we know that was last Wednesday, but we can't print notices before you write them, people!] to February 28, on Wednesdays from 5:15-6:30 pm. If you are interested, please contact the counseling services at 356-8331.

### Blake's Seven Festival

We will be showing the first seven episodes of *Blake's 7* on Saturday, January 20 in Room 13 SAC!!! (Please note change of room.) Everyone is invited to attend. The programmes will start promptly at 7:00 pm and run until about 1 or 2 am. For further information please contact Eric (564-8949) or the S.P.E.C.T.R.E. hotline (440-0459). If you call the latter, please remember to inquire about the "secret graves" . . .

### Guitar Concert In Dabney

Guitarist Darryl Denning will give a free Dabney Lounge Chamber Music Concert on Sunday, Jan. 21 at 3:30 pm. Included on his program will be works by Sanz, Villa-Lobos, Torroba, Turina, Yuranqui and various Flamenco selections.

Denning has toured and recorded internationally, and has taught guitar classes at Caltech for several years. This concert is free and open to the public. For information call 356-4652.

### Upcoming Folkdancing Events

Folk dancing on Tuesday nights in Dabney Hall Lounge. Teaching from 7:30-9:00 pm, with dancing from 9:00 to 11:30ish. On January 30th, we will have Jaap Leegwater, internationally-known folk dance instructor, as a guest teacher. Join us on Feb. 6th for our first "Beginners' Night." A great way to get started. Last but not least, come on February 13th for our 21st Anniversary/Valentine's Day Party, with live music.

### Speech And Debate Meetings

Debate meetings and meetings for the Speech Team will be held Mondays from 4:30 to 5:00 this term in SAC Rm. 13. [NOTE THE CHANGE OF ROOMS!] Meetings will be for information, tournament registration, and practices. For more information, contact Craig Volden at 1-60 or x3762.

### Speech & Debate Coach Needed

The Speech and Debate Teams are looking for a coach. This is a paid position open to faculty, staff, graduate students, or experienced debaters. Experience is preferred. Contact the Debate Team at 100-58 or Craig Volden at x3762.

### Voices Needed!

On March 23, 1990 the Caltech Men's Glee Club will perform Argento's *The Revelation of St. John the Divine* for the Inter-collegiate Men's Choral Festival in Santa Barbara. This annual event draws together the best men's choirs from all over the country. Caltech will be a featured chorus at this year's festival. We welcome all those interested in singing, regardless of what you think of your own ability. Please call Don Caldwell at x6197 ASAP.

### Gay/Lesbian Discussion Group

On the 1st and 3rd Tuesdays of each month, all students, staff and faculty are invited to an ongoing discussion of Lesbian/Gay topics, from 7:30 to 9:00 pm. After this, time is devoted to informal talking, with refreshments provided. This confidential meeting is held in the Health Center Conference Room; call x8331 for further information.

### Mechanical Universe

Watch *The Mechanical Universe* every Tuesday from 10 pm to midnight and every Thursday from 9 pm to midnight at the Y Lounge, upstairs in Winnett. Freshmen, upperclassmen, grads and faculty are welcome. Refreshments will be provided.

### Summer Work in Glacier Park

Glacier Park, Inc., which runs the hotels, lodges and tour coaches at Glacier National Park in Montana, is looking for college students to fill 900 summer jobs at the park. The jobs include typical tourist hotel stuff: front desk jobs, maids, cooks, restaurant waitresses and bus drivers, among others. An old tradition at the park is that the student summer workers can also participate in the guest entertainment. For details on jobs and salaries call Glacier Park, Inc. at (402) 248-2612.

### Attention Writers!!!

The Literature Faculty is pleased to announce the 44th Annual McKinney Competition. The Mary A. Earl McKinney Prize is awarded each year for excellence in writing. Only full-time students officially registered at Caltech as undergraduates are eligible to enter the competition. This year three prizes will be given in three categories: poetry, prose fiction, and non-fiction essays. All submissions must be typewritten and double-spaced. In the poetry category, entrants may submit up to three poems. Submissions of prose fiction should not exceed 12,000 words. Essays may be ones prepared for a humanities class or any good piece of original writing on a topic relevant to the humanities. The prize in each category will be \$250.

Each student is entitled to only one entry in each category. All contestants must submit their work to Professor Jenjoy La Belle, Division of the Humanities and Social Sciences, by no later than April 20, 1990. No entries accepted after 5 pm, April 20. No entries will be returned. Each category will be judged by a committee from the Literature Faculty. Essays will be judged on the quality of thought and the effectiveness of the writing. Winners will be announced the last week of May, and the names of the winners will appear in the commencement program. The Committee may divide the award in each category in case of more than one outstanding submission. Previous winners in any one category are not eligible for the competition in that category.

If you have any questions, contact Dr. La Belle, x3606, or Odessa Myles, x3609.

### Korean-American Students

The Korean-American Student Association meets on alternate Mondays at 8 pm in SAC Rm. 13 (Clubroom A). The next meeting will be on January 29, and follow every two weeks. All members, and those who want to be members, are encouraged to attend. As always, there will be free munichies. Please contact Dong-su Kim at x8309 if you have any questions.

# what goes on

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

## Benefit Concert

Enjoy an evening of music, dance, video and storytelling with the popular Bolivian band Yatiri, and the Texas-based Chaski. Jamie Allen (local composer) will add to this special evening which also includes storyteller/singer Angela Lloyd. The program will also include a live performance of the soundtrack to *Peru: A Moving Experience*, a film without narration. The event is Saturday, February 3rd, 1990, 8:00 pm at the Pasadena Presbyterian Church. Tickets are \$7 at the Y (second floor, Winnett). For more information, call (818) 355-1070.

## Badminton, Anyone?

Badminton is played on Mondays and Fridays in the gym, from 9 am until 11 am. Intermediate players (faculty, staff and students welcome). For information, please call Cherrie Leighton, x4915, Division of Biology.

## SURF's UP.

Applications for SURF-90 are now available in the SURF Office, Rm. 3, Dabney. Students should pick up a proposal packet, complete the application portion, and give a copy to potential research sponsors. Proposals are due Friday, March 2nd.

## Don Shepard Fund Signups

Sign-up sheets for the Don Shepard Fun Fund are now posted at the MOSH Office. Take advantage of this opportunity to enjoy a special evening of dining out, or a relaxing break at a cultural event of interest to you. Remember, we will contribute \$25 per person for dinner, or \$30 for a cultural event. Deadline date is January 31, 1990.

## Let The Games Begin

Every Friday night, the Caltech Gamers meet to enjoy role-playing and board games. Friday meetings are in Winnett Clubroom 1 at 8:00 pm. Meet others who share your interests. All welcome! Most common Friday games are fantasy role-playing, but it's a good time to find players to share whatever games you like.

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## Financial Aid Deadline

Undergraduate students are reminded that financial aid applications for 1990-91 must be submitted to the College Scholarship Service by March 2, 1990. Financial Aid applications and information packets for next year were mailed to students in early December, 1989. If for any reason you did not receive an application information packet, please stop by the Financial Aid Office, 515 S. Wilson, to request a duplicate packet.

## Energy Exchange Scholarships

The Energy Exchange of Greater Los Angeles will award scholarships of \$1,000 each to students entering the junior or senior year of college in September 1990. Their major must be engineering or computer science with a GPA of 3.0 both overall and within their major. Applicants must be U.S. citizens and demonstrate excellent oral and written communication skills. For applications contact the Financial Aid Office at 515 S. Wilson. Completed applications are due in the Financial Aid Office by February 23, 1990.

## Potential Clippers Tickets

The Caltech Y may be able to get L.A. Clippers tickets. If you or anyone you know are interested in attending a Sunday, Feb. 25, 6:00 pm game against San Antonio, or a Friday, March 30, 7:30 game against Atlanta, please come by The Caltech Y for preliminary signups. 15 to 20 people are needed to get a good discount on tickets—could be a great house event.

## Wind Ensemble Concert

The Caltech Wind Ensemble, directed by William Bing, will present a concert on Saturday, January 27 at 8:00 pm in Ramo Auditorium. The concert will feature music from the movie *Witches of Eastwick*, composed by John Williams. There will also be music by John Philip Sousa, Dimitri Shostakovich, and Alfred Reed. The concert is free and open to the public.

## Interested in Sailing?

You too can use the Caltech sailboats. Find out how by joining the Caltech Sailing Club. Contact Axel or Martin at (818) 568-9168. Open to students, faculty and staff.

## Japan-America Conference

Positions are available on the American delegation of the 1990 Japan-America Student Conference (JASC). JASC is an internationally coordinated program for university students held alternately in the U.S. and Japan. The program is held in English. This year's program will start in Anchorage, move to Seattle, and conclude in San Francisco. There will be an orientation in Portland before the program. JASC is open to any student who is a U.S. citizen or has permanent resident status. Application deadline is February 23, 1990 for this summer's program. The Career Development Center has more information and applications. Stop by at 08 Parsons-Gates.

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## Native American Studies

Sunday, Jan. 21 in Winnett Lounge at 2:00 pm, Dr. Terry Wilson, Associate Professor of Ethnic Studies/Coordinator of Native American Studies at U.C. Berkeley will be speaking on his work with Native Americans. Please call Robert Perkins at (818) 447-5552 or Marne Laidig at (818) 795-4892 for more info. This event is co-sponsored by The Caltech Y.

## Nazi Genetics

On Wednesday, January 24 at noon in the Judy Library in Baxter, Associate Professor of Political Science Diane Paul of the University of Mass., Boston, will speak on "Genetics in Nazi Germany: The Case of N.V. Timoféeff-Ressovsky." The talk is part of the Science, Ethics and Public Policy series.

## Physics And Faith?

Physicist Dr. Stephen Barr, of the Bartol Research Institute (U. of Delaware) and the Institute for Theoretical Physics at UCSB will deliver this year's Aquinas Lecture sponsored by the Newman Center. The lecture, titled "Modern Physics and Religious Belief," will be held in Beckman Labs, Rm. 24, on Monday, Jan. 29, at 8:00 pm, and is open to all. For more info, call Matt Gursky (x4369).

## Choosing Quality Child Care

The Organization for Women at Caltech presents a Noon Brown Bag lunch/talk, "Choosing Quality Child Care," by Elisabeth Benton, Director, Children's Center at Caltech. The talk will be on Wednesday, January 24 at noon, Clubroom 1 of Winnett Center (upstairs, above the Winnett Lounge).

## Attention Cricketers

This is to inform you that the cricket practice sessions will now be held on Saturday afternoons in the field with the new equipment (bats, pads, etc.) Any questions?? Call Zubair at 564-8364.

## Mystery Horses??

The Caltech Non-existent Equestrian Team presents a mystery video! What video we will show on Monday (1/22) is a mystery to us right now—but it will be good. It could be jumping, rodeo, driving, or ??? Whatever it is, it will be on our big screen in Rm. 19 Baxter, noon to 1 pm. Bring your lunch. If any questions, call Liz at x4515 or Victoria at x3828.

## Children's Show at Beckman

Bob Kay presents "Come Sing With Me" on Saturday, Jan. 20 at 2:00 pm in Beckman Auditorium. Kay teaches children about concepts such as self-esteem, family and movement through song. Call 356-4652 for information and ticket prices.

## Chamber Music In Ramo

Caltech chamber music students will present the first of their three winter concerts on Saturday, January 20 at 8:00 pm in Ramo Auditorium. The concert will include works by Quantz and Geminiani; a sonata which may or may not have been composed by J.S. Bach; an anonymous 18th century work; and two of Mozart's Chamber works, including the Quintet, K. 617, which was originally written for the glass harmonica, but will be performed on the Kawai synthesizer. Admission is free and a reception will follow the concert.

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# scholarships

## Scholarship Listings

The Financial Aid Office has applications and/or information on the following scholarships. All qualified students are encouraged to apply. The office is located at 515 S. Wilson, 2nd floor, phone x6280.

The College Women's Club of Pasadena is offering scholarships for 1990-91 to current sophomore and junior students. The amount of the award is \$2,000, which may be used for tuition/fees, textbooks, and lab fees. Full-time graduate students may apply for fellowships of \$3,000. Submit applications, with transcript, current course list and three recommendations to the Financial Aid Office by February 1. One undergraduate and one graduate student will be selected from the applicants to submit to the College Women's Club by their deadline.

The Gloria Fecht Memorial Scholarship Fund is offering a scholarship of ranging from \$1500-2000 to a young woman attending a university in California or Arizona. Applicants must have an interest in golf and financial need. Applications must be mailed on or before March 1st.

The Coors Veterans' Memorial Scholarship Fund is offering scholarships ranging from \$2,000 to \$5,000. Applicants must be sons or daughters of Honorable Discharged Veterans, active military personnel, or American service personnel Killed in Action, Missing in Action, or Died in the Line of Duty. Applicants must also be under the age of 22 as of March 15, 1990, have completed a minimum of one semester of college with a minimum 3.0 cumulative GPA. Deadline is March 15, 1990.

The National Roofing Foundation is pleased to announce the availability of scholarship awards for 1990-91. Full-time undergraduate and graduate students enrolled in architecture, engineering or other curriculum related to the roofing industry are eligible to apply. Deadline is February 1, 1990.

The Society for the Advancement of Material and Process Engineering is offering numerous undergraduate scholarship awards. Engineering students with a minimum 3.3 cumulative GPA are eligible. Deadline is February 1, 1990.

The Sylvia W. Farny Scholarship has a grant of \$1,000 to be awarded to a student for the final year of undergraduate study. Applicants must be U.S. citizens and studying Mechanical Engineering. Deadline is February 15, 1990.

The American Society of Naval Engineers sponsors a scholarship program to encourage students to enter the field of naval engineering. Scholarship awards of \$2,000 each are available for the 1990-91 academic year. Undergraduates in their final one or two years and graduate students who have not received an advanced degree are eligible. Applicants must be U.S. citizens and demonstrate a genuine interest in naval engineering. Financial need is not required, but may be taken into consideration. Deadline is February 15, 1990.

The Arizona Honors Academy has an opportunity for undergraduates to discuss important world issues with writers, sovietologists, national security officers, historians, physicists, and arms negotiators at their summer session entitled "Seeking National Security in an Insecure World." Applicants must be undergraduate students who have completed 27 semester hours with a minimum cumulative GPA of 3.5. Deadline is February 15, 1990.

The Society of Women Engineers has 29 scholarships varying in amounts from \$1,000 to \$3,000 for 1990-91. There are different requirements for each scholarship. Undergraduate women majoring in Engineering are encouraged to apply. Deadline is February 1, 1990.

The deadline for submitting a brief letter of interest is Friday, February 2nd. If more information is required, contact the Deans' Office, 102 Parsons-Gates.

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