Now this really is our last issue. I guess we just can’t stop pulling now that we’ve found the hard dirt.

Applications Drop

by Roy Lee

The number of applications for universities and colleges across the nation have dropped by five percent last year, according to the Director of Admissions at Caltech, Daniel Langdale, in an exclusive interview granted Thursday.

Evident of this recent decline in college admissions was an ad placed by the admissions department of USC in one recent edition of a USC campus newspaper which was directed toward potential college students.

Although the general trend nationwide has been a decline in the number of applications, Langdale commented that Caltech’s own admissions statistics reveal an increase of eighteen percent in the number of applications in the recent past.

Langdale attributed this general decline to the decrease in academic competence of the average American student and secondly to the fact that students are submitting fewer applications every year, a trend which shows no signs of relenting.

While this trend would have a significant effect on community and state colleges, Caltech and other colleges that appeal to the top of the candidate pool would not be affected in any significant way, Langdale explained that to offset such a decrease in enrollment, community and state schools are enrolling an increasing number of adult students.

According to studies that the College Board has done on admissions, the average number of college applications that a student during the early 1970’s and most of the 1980’s submitted was seven, while the recent past suggests that this average number has decreased substantially.

Admitting that general academic competence has decreased in the past twenty years, Langdale remained adamant in the view that the number of students attending college has not fluctuated significantly.

A key question popped up during the interview: Did academic institutions place more emphasis on extracurricular activities and being a “well rounded” person in the admissions process in order to divert attention from the decreasing quality of the American educational experience? Langdale answered in the negative and went on to explain that in his many years as director of admissions at M.I.T. and at Caltech, the admissions process has always included such non-academic criteria, but that it is only recently that there has been much publicity on this aspect of admissions.

Recently, the Los Angeles Times reported on this.

Diversity Conference Today

by Elaine Lindeol

The issue of diversity will be discussed today at the new Winnett Lounge during this year’s first Community Conference. A panel of eleven members of the community will discuss how much diversity we can achieve at Caltech, and how can we increase our current level of diversity. The panelists will begin with a short introduction, and then will open the floor to questions. The questions that will be raised by the panel include:

How does the current environment encourage or discourage diversity?

How can we choose faculty, staff and students to produce a more diverse community?

How can Caltech support the diversity that already exists?

The word “diversity” covers a great deal of territory: sex, race, country of origin, sexual preference, age, hobbies, music preference, academic field. The ways in which the Caltech community can be diverse are almost endless. And yet, we must be similar in some ways, for most of us are scientists. Why is diversity desirable? What kinds of diversity do we want? How can we achieve this while maintaining our identity as a small scientific institution?

All members of the community are urged to come and participate. The goal is to create a lively discussion between all elements of the Caltech community. Toward this end, there will be free food for all who attend. Diversity affects everyone in one way or another. Here is your chance to support the discussion of important campus issues while eating your lunch.

The topic: Diversity (How much diversity can we afford at Caltech?)

The panelists: Upi Bhalla, graduate student, Biology (GSC representative); Annmarie Eldering, graduate student, Environmental Engineering; Mary Kennedy, faculty, Biology; Cliff Kiser, undergraduate, Senior Class President; Jenjioy LaBelle, faculty, Literature; Dan Langdale, Director of Admissions; James Lee, faculty, History; Elaine Lindeol, graduate student; Andrew Mejia, undergraduate; Jo McVean, staff, Engineering; Lucas Regan, graduate student, Chemical Engineering.

Crime and Incident Beat

CRIME TIP: Faculty, staff and students are reminded to lock the desk or drawer where purses, wallets and other personal valuables are kept if left unattended even for the shortest periods of time. Last week, two persons, in separate incidents, were identified entering offices and in cases stealing cash and other items.

27 A briefcase containing a removable car stereo was stolen sometime during the day from a Sloan Lab office. The office was left unattended for short periods of time.

27 A car parked in the Chester parking lot was apparently hit by another vehicle: the turn signal and door had been damaged.

27 Caltech security found a solicitor who was selling a newspaper subscription at a profit at 4:55 p.m. He was informed of standard policy regarding trespassers and was escorted off campus.

2/8 A business services worker reported a missing purse; security performed an extensive search of the Business Services Building and interviewed construction personnel. Later, the victim told security that the purse had been found: she had left it at home.

2/9 A suspect was found soliciting textbooks in Baxter Lecture Hall. Security advised him that he would be arrested if found again on institute property.

2/9 A Robinson staff member returned to her office at 5:45 p.m. to find a suspect that claimed to be looking for a person from JPL; when the victim responded, the suspect left. The victim immediately noticed that her purse had been opened and cash had been taken.

2/9 A beaker broke in the hand of a Beckman Lab worker; the victim received a laceration to her left hand. She was taken to Huntington Memorial Hospital by paramedics.

2/9 An informant reported skateboarders on institute property. Security found six youth on skateboards near South Mudd. They were advised that they would be treated as trespassers if found on Caltech property again.

2/9 A suspect was found in a Noyce office, claiming to be looking for a pen. The witness, a staff member, gave him a pen, the suspect then left. Security believes the suspect to be the same person that committed the 2/9 theft in Robinson.

2/9 A witness saw a man who appeared to be transient using a vending machine in the SAC game room. A search by security revealed no persons.

2/12 A car parked near Crellin was hit, apparently by another auto: the left fender and door were damaged.

2/12 Forced entry was gained to a vehicle in the Chester parking lot. The suspect smashed the car’s windows, ransacked the glove compartment and took the auto’s car cover.

Total dollar value stolen this week: $377.

Exclusive Picture of New IHC Chairman

Track, Cross Country

page 12

Jim’s Journal

page 5
In Response to date rape: I am walking among you. You think I'm normal, or as normal as we can be. And we've nothing to be ashamed of. I was 18, a sophomore. I had it all: good grades, a boyfriend, who I shall refer to as John, many friends, even a few close ones. It's a big break. I was staying on campus to finish an incomplete. A friend of mine was doing the same. I shall call him Jack.

He came over one day to "save me from bookwork." We started to talk. He kept asking me about John. How was he. Were things going OK? What was he like? He finally said that he had lost interest in me. Finally I told him that John hadn't called and I really wish he'd drop the subject. He did. He apologized and left.

He returned later to say he was really sorry if he'd upset me and he gave me a hug. I hugged back and told him it was "OK. Why?" "Yes really," he gave me another hug, only it had more then. Then he kissed me. I told him that's not what I mean. We were just friends. He told me I missed John, didn't he? He told me my entire sex life. We were friends, he knew. He told me I missed John. I was friends, just friends... Would he ever look at me. Maybe. He saw the pain, the anger, the betrayal. His eyes bulged. I got up from the table. I just left. I thought we were friends. Now, we are enemies. I failed my course. I failed the first two of my class that term. I planned to stay that summer. I went home. I told friends; they told me in many different ways that I had obviously wanted it. NO! It's true I like sex, it's not true that I want it with every male friend I care about. It's been over two years. I've seen three different therapists. I still get away from men that I like him. I'm still paranoid. I have a very good relationship since. I haven't had a sexual relationship since. I still cry at night. Will it ever end? Women of the Caltech undergrad body, go to these talks on date rape. Tech is not some separate world. It's the world. It can happen here. It has happened here. —Anonymous

Sonny Arcilla

Caltech SEDS (Students for the Exploration and Development of Space) has scheduled a number of events through April including an astronomical talk tonight and several upcoming trips.

Below are some of the highlights from the Feb. 12 meeting. All events are open to all members of the Caltech community, with first priority given to SEDS members and students.

ASTRONOMY TALK

Charlie Walker, three-time shuttle astronaut and President of the National Space Society, will be speaking for SEDS tonight at 8pm in 22 Gates. All members of the Caltech community are invited.

ENDEAVOR ROCKWELL TOUR

SEDS and ASME will be sponsoring a trip for forty students will have a chance to go on a tour of the Palmdale Rockwell International facility, including the newest member of the space shuttle family, Endoavour. We will be leaving on Monday, March 2 at 1pm.

Transportation is tentatively carpeted as there is interest in a bus but this is not certain. FREE for carpoolers.

For those already signed up, no open-toed shoes are allowed, females must wear shoes, and straps are not allowed. They WILL allow photography! (Only 18 spots were left as of Wednesday, Feb. 14)

JPL TOUR

The first 20 students to sign up will be taken on a tour of the Jet Propulsion Laboratory on Friday afternoon, April 27. The tour will include bus transportation, a multi-image show about JPL, a flight projects update, a special speaker, and a tour of the space flight operations facility, spacecraft assembly center, and the spacecraft exhibit area. Priority will be given to SEDS members. FREE.

PALOMAR OBSERVATORY TOUR

On Saturday, April 14, up to 100 students will be given a behind-the-scenes tour of Caltech's Palomar Observatory. We are planning on leaving at 9am and returning by 6pm that night. Current plans are to carpet up, but there is enough interest we may be able to obtain bus transportation. Lunch not provided. Gas will be carpoolers, and the trip is FREE for carpoolers.

CALISTO UPDATE

James Maxwell, chairman of the CALISTO (Caltech Inter-disciplinary Shuttle Transport Organization) committee, will be giving an update on recent developments in the committee. The committee is currently considering designs for four experiments to be brought on the shuttle.

DOWNY ROCKWELL TRIP

Rockwell International's Downey plant holds an open house on the last Friday of each month. Caltech SEDS will be carpeting the open house for March and April. If you're interested, contact the Y to sign up for work and Decompression T-shirts.

Free Lunch and Lecture.

How Do You Get a Cockroach to Take the News? Carl Djerassi, Stanford professor of chemistry, will be lecturing on Tuesday, February 28 from 11:30am to 1:30pm in Wmnett Lounge. The first 50 people to sign up at the Caltech Y will be able to attend.

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The California Tech

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February 16, 1990

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Includes a multi-media presentation, a tour of a moon space shuttle, and limited space-related exhibits.

Free.

New relatively new organization on campus open to all members of the Caltech community. Again, although space-related activities are open to members and non-members alike, space is limited for both events. If you cannot attend the turnover, you can still volunteer, for one of the activities or have questions regarding any of the SEDS activities, call Sonny Arcilla at 577-4423.
The California Tech

February 16, 1990

3

The Future of Medicine

by Lindie Goh

Imagine going into a hospital in the future. The nurse takes a sample of your blood or skin cells. Computers automatically analyze the DNA extracted from your cells and diagnose genetic defects. Foreknowledge of possible illness due to these defects could prevent them from happening. The field of preventive medicine would widen immeasurably given the complete knowledge of the human genetic code and genome. This process to map the human genome, is one which is currently going on in the labs not only at Caltech but all over the world.

The basic idea behind the enormous task of mapping the human genome, i.e. determining the sequence of the genes found in our chromosomes, is to get an information for our entire make-up, is to create a powerful tool for physicians and biologists, according to Dr. Leroy Hood of the Caltech biology department. In an interview, Dr. Hood mentioned that roughly eighty percent of a biology research scientist's time is spent cloning and sequencing genetic points.

The ultimate goal of the human genome project is to store a complete map, i.e. sequence, of human genes in a computer library where a researcher could access it easily at will, saving time and effort that could be turned to doing the research alone. The library would be a "power tool for genetics," with staggering implications for fundamental biology and medicine.

There are an estimated 50,000 - 100,000 genes in the human genome. Mapping the human genome would take quite a long time and involve the concerted efforts of scientists and workers in several fields. The main thrusts of the researchers connected to the project here are: to first develop the instrumentation to do the mapping efficiently and, to create a model system of the human genome through sequencing the genes themselves. New computational tools need to be designed. Scientists in the computer, biology, and engineering fields must necessarily work together.

Presently, such cooperation is difficult as scientists nowadays are more focused on their own particular branch of science and thus are unable to "communicate" to people outside their fields. Part of the human genome project here is to begin an interdisciplinary Biotechnology Ph.D. program to produce scientists equally comfortable in computer and biology fields.

Ape Language Glamorously?

by All Mortazavi

The consciousness of an ape language research on our definitions and conceptions of the animal and animal consciousness was the glamorous topic of the February 7th Colloquium for Undergraduate Public Policy seminar. John Dupre, an associate professor of philosophy at Stanford University, discussed the achievements and numerous criticisms of ape research in the scientific community.

As an introduction to the philosophy and scientific dilemmas posed by the dedicated efforts of scientists to teach either American Sign Language or some form of an artificial language (e.g. abstract symbols on a computer keyboard) to these apes, he briefly listed some of the major claims and/or results. It has been demonstrated that they can "learn" as many as two hundred symbols, they can use their vocabulary to "communicate" (mainly to ask for more food or fun); that they can describe their past, coin new words, philosophize (e.g. words and when they do dead chimp gos) and joke. The major weakness of these results lies in their scientific validity.

The objective evaluation of the experiment as well as of the results has proven to be extremely difficult for not every experiment that we use here are unique to this area of primatology. Setting aside the criticism of some on the worth of primates linguistic research by these more obsessed with A.I., there have been a number of facets of this research that have been prone to criticism. The most obvious divergence from the ideal scientific method is that the observer is not disinterested: all of these men and women have consecrated parts of their lives to these projects and are eager to prove that apes can "communicate" with humans. In addition, the potential possibility of inaccurate recording or reinterpretation of the studies themselves, the more damaging possibility that the observer can unwittingly modify the behavior of the subject has not yet been addressed adequately. Finally, the question of how one should interpret the unexpected reactions of the subject to various stimuli when they do not answer a joke or the result of fundamental lack of understanding (the view of Darwin and of all the philosophers) which is raised by the research.

Part of the appeal of this line of work is the fact that it could conceivably bring back the real relicts of language with thought and consciousness, as well as to devise an ethical and moral approach to the highly controversial subjects of animal research and of animal rights in general. The fundamental point of contention these dilemmas is whether the animal is just some kind some kind of mechanical living object (the view of Descartes and many of the critics) or a "conscious" being (the view of Darwin and all the primatologists). However, professor Dupre's conclusion was that, because of its anecdotal and ultimately unscientific nature, we cannot and should not expect ape language research to answer these philosophical questions, although a "communicative" answer of research does yield to it some significance.

The next SEPP seminar will be on Tuesday, February 21, at noon in the Judy Library and will feature a talk by Fairchild Scholar Ruth Ogawa, winner of "Feminist Ethics and Reproductive Choices." All members of the Caltech community are welcome.

Admissions from page 1

Times printed an article which suggested that Caltech's admissions policies were revised to accommo­date a greater number of women in each incoming class. Langdale responded to this and other suppo­sitions that this revised policy would lower academic standards at Caltech by describing women as having different values and acade­mic priorities. In addition, Langdale added that diversity was crucial to Caltech, and that women as well as ethnic minorities would be of great benefit to the Caltech community. Langdale speculated that roughly thirty per­cent of the 1990-91 freshmen class would consist of women.

Despite recent trends, Langdale maintained the position that over the past twenty or thirty years, the face of college admissions has not changed in any significant ways. "I honestly don't think much is going on. It's a perfectly workable process. I don't think things have changed much."

Regardless of the prospects for national higher education, Caltech seems to have secured a position in the academic world which is unique in the sense that its reputa­tion, prestige, and quality will lure students to its campus for many years to come.

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NEW IHC CHAIRMAN, Jack Prater, strikes his favorite pose.

New IHC Chairman, Jack Prater, strikes his favorite pose.
No, Very Little Is Random-J.A.R.

The following is excerpted from the letters column of NATURE, Vol. 343, dated 25 January 1990. SIR—The word "random" is sometimes used in Nature and other publications where another term such as "chance," "unpredictable," "uncertain," "arbitrary," or "undetermined" should be used. The use of "random" to describe a process, behaviour or physical system should be reserved for cases where an author can prove the system is random.

The primary definition of "random" is "proceeding, made, or occurring without definite aim, reason, or pattern." Apparently random fluctuations would be better expressed as "unpredictable fluctuations" as there are "structures" and "regularity." When "random" is used to denote a selection process or simulation method, close attention must be paid to the implementation of the randomizing process. That the chaotic orbits of a three-body system would upon ejection of a member "randomize the spin orientation" is neither demonstrated in the paper nor an expected result of the ejection. Instead, the spin orientation is deterministic and yet unpredictable. The reason and pattern for the spin orientation are known; it is the limits of observation and the limits of computability that prohibit prediction.

In a statistical sense, "random" is "of or characterizing a process of selection in which each item includes an equal probability of being chosen" and is properly used in Nature 342, 128 (1989) when speaking of a "random distribution of orientations" as a metric. Even the use of "random" is statistical analysis and computer science must be viewed critically. Computers are used to generate sequences representing random selections using deterministic algorithms. Some common computer randomization methods produce more or less random results. These algorithms produce reproducible sequences that have qualities that emulate "random" behaviour (if such a thing as random behaviour exists). These computer-generated sequences are better termed "pseudo-random." If system history influences succeeding states, then we cannot consider it random merely because we do not know the aim, reason or pattern. In dynamics we must carefully consider evidence such as power spectral distribution, trajectory, degrees of freedom, rate of divergence and dimensionality when branding a system "chaotic." The same burden of proof should apply to those who report to a system to be "random".

—Thomas L. Ochs

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Director for Social Activities

Gary Eastveld

When you vote today for ASCIT's Social Director, please consider the following:

How is a fresh supposed to organize an event such as the ASCIT formal when she has never seen one done before? How is my opponent supposed to be an active, responsible BOD member when she has never attended an ASCIT meeting and is unaware of the pressing issues?

My opponent claims that she is the better candidate because she is on pass/fail and will have lots of time to think about having fun and then actually make it happen. That's nice for third term but what about first and second terms next year when she starts out on grades and finds her free time diminished and her stress level growing? A junior such as myself who has spent a year on the BOD has already learned to cope with Caltech stress in such a way that a year from now I am not likely to be sacrificed. I have also set up my schedule so that my senior year should be relatively boring so I may focus on ASCIT social events. Are you willing to give $15,000 (that one full term of dues - $20 from your pocket) to someone who doesn't have specific goals or direction for this office other than "the school should have more social events as a whole rather than just house by house" and doesn't know the limitations and resources of this Institute?

As ASCIT Treasurer, I created and controlled a budget of nearly $55,000 and increased the money budgeted to ASCIT by $15,000 would not at all be overwhelming and you are guaranteed that it will be used wisely (because I know money this really is - yours).

Many people have been saying that ASCIT needs new blood. While nothing is wrong with some old blood (lots of it has already been elected), wouldn't it be better to have some old blood with proven leadership, dedication, and fresh ideas be a better choice to help keep the BOD circulating and give ASCIT's current situation? You don't vote with your hormones.

Aimee Smith

To you students of Caltech who haven't made up their minds about who is going to represent your interests this year as Director of Social Affairs, I have just a few words.

Don't make a decision based on "convenience". If you have a lot of ideas for this year, but it is more important for elected officials to be responsive to the ideas and suggestions of their constituants, then you should support the candidates that implement the ones they feel are most important. If I were elected, my first order of business will be to learn what the Caltech students want and expect from social events, and implement those ideas.

I'm not pretending to have all of the answers, but I am willing to listen to my fellow students. I have a lot of ideas and the motivation to make things happen. Please consider Aimee Smith for Director of Social Activities.

Director for Physical Office

When the student has agreed to the appointment, the appointment is fully confirmed.

The appointment is not a nomination, but a declaration of intentions. The student may withdraw his/her name at any time before the Board of Directors meets. The decision is a commitment to uphold the Post-Doctoral Fellowship Program and to devote the student's time to the work of the California Institute of Technology.

The student must have completed a Ph.D. degree and have significant experience in research, teaching, and administration. The student must be a citizen of the United States or a permanent resident with an expectation of permanent residence.

The appointment is for one year, renewable for up to three additional years at the discretion of the Board of Directors.

The appointment carries an annual stipend of $26,000, plus the cost of living, plus the cost of health insurance, plus an additional $5,000 for moving expenses. The appointment includes a temporary one-way airfare to and from Caltech. The appointment also includes a temporary one-way airfare to and from the student's home at the end of the appointment.

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The appointment includes a temporary one-way airfare to and from Caltech at the end of the appointment. The appointment also includes a temporary one-way airfare to and from the student's home at the end of the appointment.
John McCutcheon is difficult to describe. His music is a cross between Woody Guthrie and Bruce Springsteen, only neither one of them played hammer dulcimer. His voice reminds me of the late Stan Rogers, smooth and more melodic than some folk artists, but without the over-produced lifeliness that has ruined some singers on the recording, either, including electric guitar and synthesizer accompaniment, in addition to guitar, drums, bass and harmonica on various songs.

The subject matter of the songs is simple: people. People on farms, people working in mines, people struggling against wrong, and people just trying to survive. "The Young Ones Don't Remember" is about an old union miner, seeing younger miners going to work for non-union mines: "And they'll cheer for Solidarity off in some foreign land But not one will take the union stand." "Caught in the Crossfire" is a moving song about the real victims of war in Latin America and everywhere else it occurs. "Harriet Tubman" is about the struggle for freedom. "Water From Another Time" is a very moving song about life and the passage of time.

In addition to this kind of music, John McCutcheon is a really fine hammer dulcimer player. One of his earlier albums, Step By Step, is one that I recommend to anyone who likes light instrumental music of that kind, since it features McCutcheon and a variety of guest artists on a mixture of hammer dulcimers and synthesizers and other instruments.

John McCutcheon will be performing in Dabney Hall Lounge on Sunday evening, February 18 at 7:30 pm, as part of the Caltech Folk Music Society concert series. Tickets are $10.00 general admission, but are only $4.00 for Caltech grad and undergrad students. Make reservations at the Caltech Ticket Office, x4652, or just come by Dabney Hall and buy a ticket there.
Ojas' rare ability to easily vanquish complex problems earned him admiration when he became a chess champion in grade school. Ojas' intelligence, drive and uncommon insistence on doing everything well have made him one of our outstanding project managers. But employees like Ojas aren't at all rare to us. He's one of the many recent university hires we value at Oracle.

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Danby

Uncle Dave has retired from writing the inside world, so he has chosen his favorite nephew to replace him. Nothing has been going on in Danby this week. So instead of boring everyone with all the details, I got Mr. XY to give me his list of the top ten underclassmen females. (I am not Mr. XY, and I have nothing to do with the creation of this list.)

All of you nice girls out there don’t be upset if you’re not on here. This list is strictly most market rating. Conversely, if you’re a real bitch and you’re on here, don’t be surprised; this list has nothing to do with personality. Before anyone calls this a sexist inside world, wait until next week when Ms. XX gets to present her list of the top 10 undergraduates males.

-Lambeau Soph

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The Ten Hottest Undergrad Babes at Caltech

10. Jessie Halldman
9. Joanna Wills
8. Monica Oei
7. Jennifer Yu
6. Fiona Lo
5. Jennifer Jungkuthe
4. Pam Abolore
3. Aimee Smith
2. Kirsten Babbitt
1. Maggie Taylor

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Coming to Caltech

February 21, 1990

VITesse SEMICONDUCTOR CORPORATION is the leader in the design and manufacture of high-performance VLII Gallium Arsenide integrated circuits. We provide specialized components for commercial, telecommunications, military, and aerospace applications.

Our current team has strong backgrounds in device physics, integrated circuit fabrication, VLSI design, manufacturing, marketing, and management. We are rapidly expanding this professional group to meet our strong business growth.

We are located in southern California's suburban Ventura County, 50 miles northwest of Los Angeles.

Vitesse is in need of energetic, dynamic, motivated individuals with degrees in Electrical Engineering, Materials Science, and/or expertise in the following areas:

- Logic Design
- Design Automation
- VLSI Design
- Product Engineering
- IC Processing
- High-Speed Testing
- Semiconductor Device Physics
- Assembly
- Package Design

Vitesse offers the opportunity to work with highly talented people on challenging projects. You will be able to make major contributions in your area of expertise to a rapidly expanding set of unique high-performance products. Vitesse provides the opportunity to learn and grow with a young company. In addition to competitive salary and benefits, Vitesse offers the opportunity to learn and grow with a young company.

If this interests you, please register at the Career Development Center to interview with a Vitesse representative (a Caltech graduate) on Wednesday, February 21. We look forward to meeting you.
Regal Dollars

The awards ceremony will begin at 12 noon.

New Music Class

The class is open to pre-regionals for Try a new music class—"Music of South Asia." It is aimed at both students and non-students of the University.

Saloon

The Saloon will feature performances from the resident band, The Saloon Band, as well as guest performers. No musical background required. Sign up the 15th edition of the California Tech for more details. Call Prof.

Horse History

The California Tech Horse History Team is showing part 5 of "The History of The Horse." Monday, Feb. 20. 7 p.m. in Winnett Hall.

Contemporary China

The Philharmonic Orchestra will present a concert of contemporary Chinese music. The program will feature works by Chinese composers, including contemporary and traditional pieces.

Tea Shop

Are you interested in developing your tea appreciation skills? Join us for a free tea tasting event featuring a variety of teas from around the world. The event will begin at 2:00 PM in the Tea Shop.

AMTRAK to Universal Studios

Come by the Y for a discount on AMTRAK tickets to Universal Studios. The special rate is $49.00 per person and includes round-trip service and a day pass to the park.

PARIAN TRAVEL

Call the California Tech Travel Office for more information on travel packages.

The California Tech Health Center offers a showing of "The History of Western European Economic and Political Reforms." The event will take place at 7:30 PM in Winnett Hall.

The Caltech Y now has L.A. Phitharriess, the International Phone Service. With Phitharriess, you can call anywhere in the world for a fraction of the cost of regular phone service.

The Gloria Fecht Memorial Scholarship is available to students in both high school and college. The scholarship is open to students in both high school and college.

The Planetary Society actively encourages applications from students in both high school and college for its scholarships. The deadline for applications is May 1, 1990.


The California Tech Science Fiction Club invites you to our monthly meeting, featuring a reading of a new story by one of our members. The meeting will be held at 7:00 PM in the Library.

The California Tech Health Center offers a showing of "The History of Economic and Political Reforms." The event will take place at 7:30 PM in Winnett Hall.

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Some time ago, a couple of freshmen prayed to play a little tennis. They looked up to that great periodic chart in the sky, and it said, "I send you Harry. Play wisely and if all else fails, be nice so you don't fail."(chem, that is) So the two humble servants challenged the ChemEd himself, and he agreed.

The two servants were called Son and Seung-Wan; The Gods: Harry Gray and Jay Labinger. Thunder and lightning struck, and little remained of the two lovely humans.

Will the prayer go out again? Surely man can be up with the Gods! But can frost? That is the question. No freshman pair has touched Harry Gray in tennis in years, not even winning a set. The challenge exists, but the real mystery is: "Are there any brave freshmen out there?"

No real tennis team article this week. ThunderChris, accidentally inhaled dust from machine shop and Shoe-Goo II fumes while fixing his tennis shoes, plus staying up too late trying to figure out why he has a headache after pulling an all-nighter, takes this week off.

Liz Warner flies in the long jump during last Saturday's meet.

Chem Students Lose

Track

from page 12

got the "Moont took second place with a time of 3:35:34.

In the Discus Throw, Freshman Jeff Martin choked the hearty frissbee 110 feet 11 inches and took second place. In the shot, Harkness threw 47'5" to win.

Moving on from the throwing type stuff to the jump, we find some more noteworthy performances by the field event people. Dave "I'm not injured anymore!" Park jumped 201" (just under 9 feet short of the world record) to capture second place.

In the triple jump, Dave Park hopped and skipped his way to third place with a jump of 40'4.25".

In the pole vault, Duddy skied to second place with a vault of 12 feet.

Noteworthy Performances for the Winners

Liz: "Tough as Nails." Warner kicked some serious tail in her races. She was second in the 100 (11.34) and third in the 200 (28.0).

In the 900, Golds Bernstein blasted a 2:45 to finish in fifth place. Maria "Those guys walk when they get around corners" Toronto made her collegiate track debut finished in 5:17.

Junior Jennifer Remine threw the javelin, discus, and shot. While Jennifer was the thrower for Tech, Liz was the jumper (2nd in the long jump and triple jump).

Special Highlight of the Meet

Disqualification of the Claremont "Banana Relay" 400 team. Also Albert Ho didn't break his pole.

Things to Look Forward to in the Near Future

A weight man relay team consisting of "Yessus" Thai, Harkness, Martin, and Ande Ohanian.

byslaw changes

TECH PROPOSAL 1
Replace Article XIV, Sections 8-9 with the following:

SECTION 8. The salaries, commissions, and bonuses of the Board, Assistant Editors, and Business Managers of each publication will be paid not until the Board of Directors has approved payment. No commission will be paid until payment for that advertisement has been received, unless specifically approved by the Board of Directors. Salaries may be withheld by the Board of Directors, in whole or in part, for unsatisfactory performance by the Editor, or failure to submit on time the required financial reports or for gross financial negligence by the Business Manager.

SECTION 9. Compensation schedules for the California Tech, Big T, and Little T must be submitted by each publication to the Board of Directors for approval. The schedule must be submitted within a month after the Editor and Business Manager of each 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 bonuses, descriptions of duties for all paid positions; and a payment schedule. The salaries, commissions, and bonuses will be paid from the respective publication's funds.

SECTION 10. Salaries and bonuses for the other publications will be paid from corporate funds.
(a) Course Listings of Undergraduate Education (CLUE). The Editor will receive a salary of three hundred dollars ($300) with a possible bonus of one hundred dollars ($100). He may appoint a maximum of two (2) Assistant Editors, who will each receive a salary of fifty dollars ($50).
(b) Totem. The Editor will receive a salary of one hundred dollars ($100) with a maximum bonus of one hundred dollars ($100). A group of corporation members may hold this position.
(c) Undergraduate Research Opportunities Handbook. The Editor will receive a salary of one hundred dollars ($100).

SECTION 11. Satisfactory performance by the Editor and Business Manager of a publication will usually require that the publication be available by the date specified in this section:
(a) Big T—ten (10) days after the day of general registration first term of the next academic year.
(b) little T—the day of general registration first term.
(c) CLUE—the day of general registration first term.
(d) Undergraduate Research Opportunities Handbook—the day of general registration third term.

[Current sections 10-14 will be renumbered if this amendment is passed.]

TECH PROPOSAL 2
A. Replace Article VIII, Section 1 (first paragraph) with the following:

SECTION 1. Nominations for the offices of President, Vice President, and Editor of the California Tech shall open at 8 a.m. the second Wednesday of second term, and shall close at 5 p.m. the following Tuesday.

B. Replace Article XIV, Section 11 (first clause) with the following:

Replace Article Section 1

Insert a new section after Article XIV, Section 1 as follows:

SECTION 1. The Business Manager of the California Tech, the Editor and Business Manager of the Big T, the Editor and Business Manager of the little T, the Editor of Totem, and the Publication Darkroom Chairman are appointed by the Board of Directors.

[Following sections will be renumbered if this amendment is passed.]

ATHLETIC MANAGER

Miguel McDonald

Hello, my name is Miguel McDonald and I want to be Caltech Athletic Manager.

I have been involved in Caltech athletics for as long as I've been here. I play soccer for Caltech, and also do a bit of running and fencing on the side. I'm not very good at any of these; I just go out to do the best I can, to learn a little, and to have fun. I am able to cheer on the rest of the team when I'm not playing, and often go spectate at sports I'm not even in. I have also been a member of the Blacker house athletic team for a year, trying to get people out to go to our intrahouse games. Usually I succeeded.

In high school I lettered in four different sports, and was usually the unofficial team manager. I have experience in positions of responsibility, having been a referee and an assistant coach for the local city soccer league. And twice I had to go and intercede for teammates who were in trouble and had mistakes in name or letter on them.

My personal philosophy on sports is to make it an enjoyable experience; winning is nice but not the only goal. I feel that this reflects what I have seen here very well.

Please vote for me on Monday. I think what it takes to do a good job. Even if I am not elected, I will still be around, playing, cheering, and organizing.

Thank you,
Miguel McDonald

bylaws changes

TECH PROPOSAL 3
Replace Article IV, Section 13 with the following:

SECTION 13. Office of the Editor of the California Tech takes office upon installation of the corporate officers.

TECH PROPOSAL 4
Insert a new section after Article XIV, Section 1 as follows:

SECTION 2. The Business Manager of the California Tech, the Editor and Business Manager of the Big T, the Editor and Business Manager of the little T, the Editor of Totem, and the Publication Darkroom Chairman are appointed by the Board of Directors.

[Following sections will be renumbered if this amendment is passed.]

MANDARIN CUISINE AND SEAFOOD

LUNCH SPECIAL
Choice of 13 entrees
11:30 a.m. -3 p.m.
3-7 p.m.

CLASSIC DINNERS
Sunday-Thurday 3-10 p.m.
Friday-Saturday 3-10:30 p.m.
Open 7 Days • Cocktail Lounge • Food To Go Orders Welcome • Free Parking in Rear
Club Homeboy Wins Meet

The Caltech off-season cross country team hit the trails Sunday in the SCA/TAC 5K Cross Country Championship at Griffith Park. Club Homeboy, running under the assumed name of Team Blarney for TAC championship considerations, dusted all competition.

This course, unlike NCAA course was a real cross country course. There were water jumps, barriers, ramps, and hills so grueling, your car wouldn't make it to the top.

Club Homeboy consisted of Dan Flees, Scott Kister, Chris Campo, Mark Lytle, and Paul Socolow. The top four finishers determine the team score. Dan, Chris, and Mark went out blazing, trying to psyche out the other runners. Meanwhile, Scott and Paul were hanging back, sizing up the course.

When a woman passed Kister, he decided it was time to move. The downhill dasher took advantage of a downhill section, and strided past the woman, who happened to be the first American woman finisher in the LA Marathon.

Flees continued his blistering pace, but Lytle and Campo succumbed to the monster hill. Paul continued to hang back, saving it for the sprint finish. Flees finished in 20th place overall, finishing in a time of 20:11 on the tough course. Kister, who was passed by the woman with a half mile to go, guttered out to pass her and finish 23rd in a time of 20:37. Campo, however, could not summon up his faded finishing kick, and was beaten by her.

Chris finished 25th in 20:41. Lytle pulled up a bit and paid for his early pace, finishing in slightly over 23 minutes. Paul was not on form for the entire day until the final 100 yards, when he kicked past all those weekend road warriors.

While other runners were running around the water jumps, the members of Club Homeboy jumped right over or through the water. Instead of stopping over the barriers, Club Homeboy hurled them. This intense aggressive attitude paid off, as Club Homeboy won the SCA/TAC Team Championship.

The race was won by William Musylko, the number four ranked road racer in the world, according to Runner's World. He was followed closely by a world ranked Kenyan steeplechase specialist.

by Chris Campo

The Caltech Track and Field Team made its fiery orange debut Saturday, February 10, in the Caltech Invitational I. The meet, hosted by Caltech, was a victory for the men. Tech scored 149.5 points to Claremont-Mudd-Scripps' 141, Biola's 87 1/2, Masters' 47, CoHelre's 42, LaVerne's 15, Whittier's and Life Bible's 10.

The women fared not as well, finishing third with Christ LaVerne 19, Mount Masters 8, and Whittier's.

The Men

A number of Techers put forth admirable performances at the meet. Rob Ullman in his debut colian U.S. at 7th race was won by William Miyake, the number four ranked racer in the according to Rurmer's World. He was followed closely by a world ranked Kenyan steeplechase specialist.

Men's Track Team Wins By DQ

In the 400 the Montz man made yet another appearance in the top spot for Tech, blazing a 53.7 to capture third place.

Moving up to that gut-wrencher of a race called the 800 meters, we find freshman John "Angus" Freen man capturing seventh place in a time of 2:04. Freeman also ran the 1500 meters, finishing 4th in 4:14.8, teammate Mike "Harry" Mahon also did well in the 1500, turning in a time of 4:35 to capture 12th place.

In the 5000 meter race, Chris Campo finished in third with an impressive 17:12. Teammates Alan Thompson, Willie Watson, Derek "Rob [sic] Sliey, and Matt "Meow" Fetterman captured the next four spots with times of 18:56, 19:02, 19:26, and 21:17 respectively.

In the only "real man's" race on the track, the 10,000 meter race, "Erie" Mike Ida gutted out a 43:29 to capture third place.

Paul "JC" Socolow blasted a winning 59.6 in the 400 meter hurdle race, which was one hurdle short. Teammate Greg "Howdy" Dufy finished close behind in 61.1 in third place.

In the 3000 meter steeplechase, Scott "Hoops" Kister was victorious in 11:45.

The Tech 4x400 team, consisting of "Angus" Freeman, "Jesus" Socolow, "Howdy" Dufy, and I ended up on page 11.

Claremont-Mudd 72, Caltech 39

The three finishers determine the team score.

Powlina Katz, Rachel plots down a member of the opposing team in last Sunday's soccer game.