

Don't blame us,  
the typesetter broke.

Signups for ASCIT offices are open now on the MOSH's door. Quit whining about ASCIT and run for office.

## Cannon Centennial

by Lanny Boswell

February 7, 1990, marks the 100th anniversary of the Fleming Cannon. As the actual date of its construction is unknown, and February 7 is exactly nine years since the Cannon's return to Caltech in 1981, that day has been chosen as the Cannon's birthday.

To celebrate this event, the Cannon will be fired at 5:00 p.m. on Friday, February 9. Also I have decided to submit the following story of the Cannon, telling its history starting from the very beginning, over one-hundred years ago.

In 1884, Congress approved the construction of what is now known as the Fleming Cannon "to be put to use in the Government service." What actually happened to the Cannon in the hundred years since has been the stuff of legends.

Unfortunately, the "stuff of legends" often becomes the "stuff of myths," and many untrue tales of the Cannon's origins and history still exist, ranging from the claim that it is French, to the claim that it is made of brass. Thanks to the work of Kent Nordstrom (Cannon Master 1988-89), the true story of the Fleming Cannon has been discovered.

The Cannon, itself, is a steel, 5-inch diameter siege gun, Model of 1890, number fourteen of thirty-three constructed by the U.S. Army. The barrel weighs 3600

pounds and is twelve feet in length. This type of cannon was shipped to Cuba during the Spanish-American War and was used for training purposes until the end of World War One.

From 1925 until 1972, the Cannon sat on the lawn of Southwestern Military Academy in San Marino, where it was the target of several "repaintings" by each year's graduating class from San Marino High School. The mistreated cannon gave Southwestern an undesired military image, despite the fact that the academy had ceased being a military school years earlier. The added burden of the Vietnam issue made the Cannon a problem that Southwestern wanted to be rid of. Helpful as always, the men and women of Fleming House came to the rescue.

After months of planning and preparation, on the night of October 7th, 1972, eighty Flemings made their way to Southwestern's lawn. Originally moving the Cannon required the use of seventeen horses. Lacking horses, the Flemings began the journey back to campus, using muscle power.

Carefully avoiding the San Marino and Pasadena police, the Flemings pulled the Cannon for three miles, ending with a bell-ringing Olive Walk procession to the Cannon's current location in front of the doors of Fleming. There it sat



Photo by Chris Ho

for three years until some overenthusiastic house members started to wonder about the maximum capacity of the Cannon's powder chamber.

Originally, the Cannon called for a twelve pound charge of black powder, which could propel a forty-five pound shell to a distance  
continued on page 5

## Environmental Mayhem

by Roy Lee

An enthusiastic audience gathered last Wednesday evening at a crowded Baxter Lecture Hall to discuss the realities of global environmental mayhem.

The program, titled, "One Earth, Many Nations: The Politics of the Global Environment," and sponsored by the Caltech Y in association with the Angeles Chapter of the Sierra Club and the Pasadena Chapter of the United

Nations Association, featured keynote speaker Dr. Sherwood Rowland, codiscoverer of the CFC-ozone connection, along with moderator Larry Mantle, and a response panel consisting of Gary Herbertson, Francis Wheat, and Alan Maler.

Perception of the environmental issue has grown noticeably over the past two years, and thus has sparked the formation of local chapters of environmental groups,

remarked Betty Sandford, Co-Chair for United Nations Association.

Dr. Sherwood Rowland, the first speaker, presented the scientific aspects of two major catastrophes: the destruction of the ozone layer and the Greenhouse Effect.

One main focus of Rowland's presentation included the global aspect of the environmental dilemma. He noted, for instance, that radioactive fallout from the Chernobyl disaster was detected in Irvine, California within the short span of fourteen days.

Rowland named chlorofluorocarbons (CFCs) as the primary culprit for the destruction of the ozone layer, which serves to protect the Earth from harmful ultraviolet radiation.

The increase in CFCs, particularly CFC-11, CFC-12, and CFC-113, which are found in refrigerants, aerosols, and coolants, has already been noted on a world-wide basis and could potentially lead to two major effects: the increase in UV rays below the ozone layer and unknown consequences in the stratosphere.

Although the ozone hole above the Antarctic has been widely publicized, Rowland remarked that, "This ozone problem is not confined to Antarctica." He later went on to comment that the northern hemisphere also experienced similar ozone depletions of up to six percent.

On the Greenhouse Effect,  
continued on page 3

## SFC Update 90

The first session of the 1990 Student Faculty Conference is now only two weeks away. The panel that will present the initial summary of opinion on the subject has been constituted. The members were invited both in view of their responsibilities within the institute, and the interests shown in the essays submitted to the Y. The members are:

Upinder S. Bhalla, Graduate Student, Behavioral Biology (216-76)

Annamarie Eldering, Graduate Student, Environmental Engineering Science (138-78)

Andrew P. Ingersoll, Professor of Planetary Science (170-25)

Cliff Kiser, Undergraduate, Blacker (1-60)

Jenjoy La Belle, Professor of Literature (101-40)

Daniel T. Langdale, Director of Admissions (1-63)

James Z Lee, Associate Professor of History (228-77)

Elaine Lindelef, Undergraduate, Dabney (1-58)

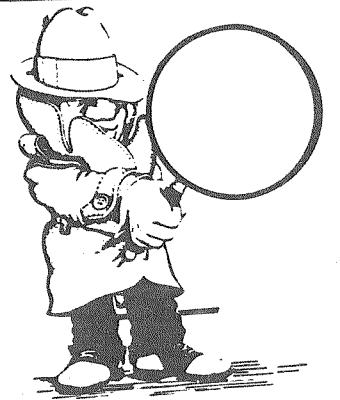
Jonathan D. Melvin, Member of the Professional Staff, E&AS (104-44)

Sergio Ruiz, Undergraduate, Page (1-53)

If you have any concerns that you would like to see aired in the presentation feel free to contact any of these people. Hopefully we'll see you at noon on the 16th of February in Winnett.

The second session will be on the 2nd of March, also in Winnett at noon. It will focus on the Honor System. Essay applications to be on the panel were actually due yesterday, but the announcement was buried on an inside page of this newspaper, so there is still time. If you are interested in touch with Lucy Guernsey in the Y or one of the Deans of Students within the next couple of days.

# Crime Be a T



**CRIME TIP:** This month there have been seven major auto-related crimes, including the theft of two automobiles. As a result, security is concentrating personnel in parking lots. However, persons working after 5:30 p.m. are encouraged to leave their car in the 341 S. Wilson parking structure.

1/24 Two suspicious persons were observed loitering near book cases in the sub-basement of Crellin Lab at 10:00 a.m. When a witness approached them, the suspects stated that they were looking at the books, but left immediately.

1/24 A car stereo was taken from an auto parked near Arms Lab. The door was apparently forced open with a screwdriver left at the scene. The perpetrator took the removable stereo which was underneath the driver's seat, ransacked the glove compartment, tampered with the ignition switch in an possible attempt to start the engine, and stole speakers from the car's trunk.

1/24 At 6:44 p.m., a witness reported a magazine solicitor in the Catalina complex. Security spoke with the solicitors and several others who had a Texas operators' license. They were informed of standard institute policy regarding solicitors and asked to leave.

1/25 A bike locked with a cable to a handrail was stolen from the area north of Beckman Labs.

1/25 An undergraduate living off campus sustained severe cuts to his left forearm and left thigh when he attempted to walk through a glass door. The victim had thought that the door was open. Paramedics took him to Huntington Medical Hospital for treatment.

1/26 An unknown person broke the pane of a Robinson Lab window, possibly by throwing a rock.

1/29 Two persons approached Crellin Lab workers, asking to buy teaching copies of textbooks. Security found the suspects elsewhere in Crellin. The two had a license to work for the Book Cover company in Sacramento, CA. Security informed the two that they would be arrested if found on Caltech property under similar circumstances.

1/30 A handicap parking sign was stolen between 1/26 and 1/30 from the north wall of Beckman Auditorium.

1/30 There was a fender-bender in the Wilson parking lot. The responsible party agreed to pay for damages.

1/30 A Toyota GT S parked in the West Wilson parking lot was stolen. The vehicle was equipped with an anti-theft device, but it was not armed at the time of the theft.

Total dollar value stolen this week: \$12,800.

Newer, faster format Crime and Incident Beat: now all times are reported in standard a.m./p.m. format.

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Season Opener

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Lloyd's  
Journal

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LETTERS

Gary Has New Veggies

Dear Chandler Diners and Chandler Management,

Thank you for responding to my call for veggies. I have just finished a salad comprised of fresh lettuce, spinach leaves, alfalfa spouts, bean sprouts, cucumber, bell pepper, radishes, China peas, mushrooms, summer squash and cherry tomatoes. A veritable feast with only 160 calories. Thanks to

the reintroduction of fat free fresh vegetables to the salad bar losing those extra holiday pounds will be a breeze. If you are as appreciative of the new salad bar items as I am tell the cashier next time you dine at Chandler. We don't want Gary to think his responsiveness has gone unnoticed or unappreciated. Sincerely,

-A Slenderizing Caltech Fatso

Y News

Y News

Y News

**Broomball.** The spring tournament is tentatively scheduled for the night of March 3-4. Get your teams together!

**Caltech Fun Run.** For those who enjoy running or jogging, you can join this group, which meets at the Caltech Y on Wednesdays at 4:30.

**Co-sponsorship.** If your club or organization would like the co-sponsorship of the Y, come by and fill out our form. Forms are due to Brian in the Y Office an hour before the Monday noon Ex-Comm Meetings.

**Faculty-Student Activities.** To promote faculty-student relations, the Caltech Y is giving \$25 per

student-faculty couple for activities involving both students and faculty members. Limit one usage per student per term. Contact the Y for more details.

**Fund Drive.** Please fill in the forms which are/will be given to you. The charge is minimal and put on your student account.

**Futures For Children.** The Y still has reduced admission tickets for this extraordinary event to be held tomorrow evening.

**Recycling.** The Caltech Y is joining with other groups in promoting recycling. The first step is White Paper baskets in the computer room and around campus.

**by Shane Sauby**  
How many sequels did you see last year? There was *Ghostbusters II*, *Indiana Jones and the Last Crusade*, *Lethal Weapon II*, *Star Trek V*, and *Back to the Future II*.

Well, if you like seeing the same people in the same characters, doing slightly different things, then welcome to the Year of the Sequel Part II.

Please follow the instructions (don't just throw in random trash), and help us recycle.

**Special Lecture.** Beekeeping and Spiritual Values. For more information see the announcement in the What Goes On section, or contact the Y.

**Thank You!** Last week we wrote that our poster supplies were missing. They have been returned, so we thank whomever is responsible.

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

The sequel that everyone knows is coming, unless you've had your head in an oven, is *Back to the Future III*. Being shot simultaneously with *BTTF II*, saving somewhere in the neighborhood of 10 to 12 million dollars, *Back to the Future III* will be released sometime this summer. Marty and Doc get to run around in the old west, fight it out with Biff's great-grandfather, and try to fix a DeLorean. If you liked II, you'll want to see III, believe me.

On the list of "Why did you make a sequel?" sequels is *Back to the Past*, a sequel of *Future Force*. Did anyone see the first one? Also, *Basket Case 2*, *Delta Force II*, *The Gate II*, *Puppet Master II*, and *Maniac Cop II* are all sequels to movies that basically no one saw or liked.

(If you did though, the sequel is coming out this year.)

In the worst title for a sequel category is *Subhumanoid Melt-down: Class of Nuke 'Em High Part II*. Mutants abound at Tromaville University, where the student body gets to battle for their lives. Gore and blood guaranteed.

For those of you with a taste for the scary or horrifying, there are more of them for you this year. *Prom Night III: The Last Kiss* is scheduled for spring release, while *Childs Play 2* and *A Nightmare on Elm Street 6* will come out in the fall.

There is one entry in the surprise sequel category. *The Gods must be Crazy II* is scheduled for spring release. N!Xau goes on another adventure, this time searching for his children who accidentally get picked up by poachers.

There are a couple of sequels that are hoping to do as well as their predecessors. Peter Weller returns in *Robocop II*, which follows Murphy through battles with a drug-crazed gang, mind "rehabilitation," and another nasty robot. Meanwhile, with his partner Nancy Allen's help, he tries to gain back his lost humanity. *Another 48 Hrs.* brings Nick Nolte and Eddie Murphy back together again, to fight an Aryan-supremist biker organization.

Joe Dante brings back his furry monsters in *Gremlins 2: The New Batch*. This time they're terrorizing New York City. *Young Guns II* takes the survivors from *Young Guns* and tells the story of how Billy the Kid REALLY died. Finally, Bill and Ted return in, of course, *Bill and Ted's Excellent Adventure II*. What bodacious people from the past will they meet this time?

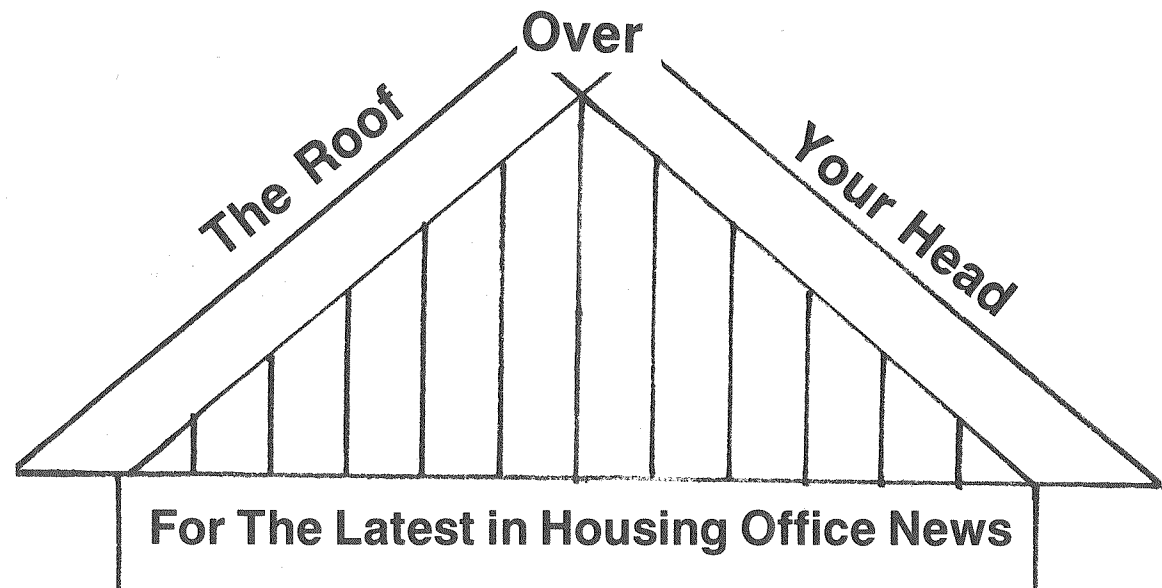
In the random sequels section there are a few entries. *Ernest goes to Jail*, *The Rescuers Down Under*, *Neverending Story II*, *Rocky XXI* (Just kidding, its only number V), and *Texasville*, a sequel to *The Last*

*Picture Show*, are all scheduled to come out in 1990.

The sequel that I've been waiting for is finally coming out nine years after the original. *Scanners II: The New Order* is scheduled for fall release. In this film, the son of the original scanner must resist a group of scanners who want him to join their *New Order*.

Finally, the best for last category, including two movies which are the third in a series. *The Two Jakes* stars Jack Nicholson, who also directs, as private eye Jake Gittes. This should be one of the better sequels this year. Along with *The Two Jakes*, *Exorcist III*, and *The Godfather III* are both scheduled for 1990 release. The second *Exorcist* sequel comes thirteen years after first sequel, focusing on the same town. Its seventeen years later and there is a strange string of murders being committed, with all the victims being priests. The sequel to see though, is *The Godfather III*. Both the original and its sequel won the Academy Award for Best Picture. Francis Ford Coppola directs and co-writes the third installment in the saga of the Corleone family. Al Pacino stars, with Diane Keaton and Talia Shire. The real question isn't whether it will win an Academy Award, but probably how many will it win?

That covers the sequels coming out this year. There are a few other movies worth mentioning, but I'll save those for next week.



**by Nancy Carlton**  
Questions and answers concerning smoke detectors.

**Why do we need smoke detectors in student housing units?** Smoke detectors are needed to protect lives by providing early warning of fires especially at night. Six out of every 10 fatal home fires start at night.

**Why do smoke detectors sometimes sound when there is no smoke?** Smoke detectors detect airborne particles and can be set off by aerosol sprays, steam and large

amounts of dust. Some smoke detectors are equipped with trouble alarms which sound whenever there is a mechanical problem with the smoke detector.

**What should I do if I think something is wrong with a smoke detector?** If you live in student housing call the Housing Office if the problem occurs between 8:00 a.m. and 5:00 p.m. If the problem occurs after hours call Physical Plant at extension 4717. Never try to fix a smoke detector by yourself. If the Housing Department finds a smoke detector has been removed,

tampered with or damaged, the responsible party will be charged for the cost of the repair. If the fire marshal finds a smoke detector has been tampered with, damaged or removed, he will fine the responsible party \$1,000 or confine him/her in jail for 6 months.

**When a smoke detector goes off does the fire department automatically respond?** The smoke detectors located in the hallways of the north and south complex are linked directly to Central Plant. When they go off the fire department is summoned by Central Plant. The fire alarms in the student rooms are local alarms that are not linked to Central Plant. If one of these alarms sound and there is a fire, pull one of the hallway pull stations and call the campus emergency number, extension 5000.

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—Michael Medved, SNEAK PREVIEWS

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# SURF's Up at the SURF Kickoff Dinner

by Lindee Goh

The 1990 SURF (Summer Undergraduate Research Fellowship) Kickoff Dinner started promptly at six in the evening on Tuesday, January 30. Undeterred by the sudden burst of rain that night, faculty and corporate SURF sponsors, former student SURFers, and other guests of the SURF board arrived at the Athanaeum, gamely shed their water-logged overcoats and mingled with the growing crowd in the reception area inside.

The dinner was opened by Terry Cole, a JPLer who plays an ac-

tive role in the SURF program, thanking the various, sponsors and people that made SURF possible, making special mention of "his boss" Carolyn Merkel, Joan Spears and the founder of SURF, Fredrick Shair. In his opening remarks, Caltech president Tom Everhart commented on the great opportunities Caltech gives to undergraduates in allowing them the early experience of working in a laboratory environment. In the classroom, "problems are set by others." In the lab you set yourself a problem and must devise ways to

solve it.

Keynote speaker Fredrick H. Shair, Professor of Chemical Engineering and Founder of the Caltech SURF program, afterwards spoke on "The Beauty of SURFing." He reflected on the importance of technology today, the advances in science over the recent years, and how much the Caltech "family", faculty, undergraduates, graduates, post docs, and yes JPLers, were involved in these advances. The SURF program encourages this spirit of exploration. The word "leadership" character-

izes SURF, for SURF creates opportunities for greater development of personal qualities such as responsibility, perseverance, integrity, cooperation and professionalism, and fosters leadership abilities.

The dinner ended on a highnote with Professor Shair remarking that "the SURF is the wave of the future."

This year's SURF program is dedicated to Fredrick Shair, who founded SURF in 1979 and "without whom there would be no SURF."

## Environment

from page 1

Rowland named carbon dioxide and methane as the two gases which wreak the most havoc on the atmosphere. He noted that both gases have experienced two-fold increases within a century, and that the primary cause of carbon dioxide concentrations was the burning of fossil fuels, while the secondary cause was the destruction of tropical rain forests.

Alan R. Maler, one of the three panel members and a practicing attorney, directed the environmental issue to the forum of legislation enacted to counter the effects of global pollution.

"Action by alchemy," or "legislation by crisis" was the term used by Maler to describe the idea that political action is not taken until an actual crisis develops. He gave several illustrations of this, including the cause-effect relationship between the 1969 disaster when a river in Ohio caught on fire and the enactment of the Clean Water Act just three years later in 1972.

In addition to the Clean Water Act, Maler listed nine important pieces of federal legislation that were enacted to combat the growing environmental problems, which included the Occupational Safety and Health Administration, the Clean Air Act, and the Toxic Substance Control Act.

Although a number of important acts were passed, Maler nevertheless remarked that the history of environmental acts consists of a series of patchwork legislation, and that a lack of consistency has led to a lack of a comprehensive, overall view.

On the international level, Gary Herbertson spoke of the United Nations Environment Programme and its effects on the environment. The U.N. Environment

## Tennis

from page 12

6-2 demolition. Mukherji and Sonny Arcilla powered their way to a grinding 7-6, 3-6, 6-3 assault in the second spot with a mix of Mukherji's finesse and Arcilla's pure strength. In fact, Arcilla broke strings in both his rackets in minutes, as the SCC pair fell before them. Rounding out the doubles were Ng and Chris Ho, who lost in two sets.

In the end, it was a marvelous start to a hopeful season. Wish the team luck as they hit the road to play Menlo and Dominican Colleges in the Bay area this weekend and try to extend their undefeated mark to 3 and 0.

And the smiles and spirit continue...

Programme was created with two objectives in mind: (1) to bring governments together on the problem of environmental pollution and (2) to create a secretariat within the United Nations to coordinate activity.

One important topic that cropped up during Herbertson's presentation was the dilemma of poorer nations and the environmental problem. Much of the environmental problem is related to the destruction of the tropical rain forests in South America, where many of the countries gain revenue from exploiting their natural resources.

Although many environmental issues were touched upon, one important issue that was not discussed was the Malthusian question—population control. Nevertheless, the United Nations and Sierra Club have subdivisions that deal with this issue.

In the past, Caltech has not been a hotbed of environmental protectionism. Public assemblies that deal with the environment have brought the spotlight upon the need for reform and regulation. Due to the scientific nature of Caltech, an awakening of environmentalist consciousness is needed, for many of the environmental problems are related to the scientific world.

On April 21, the city of Pasadena will host numerous activities and events on the Arroyo Parkway, next to the Rose Bowl, to encourage and foster interest in the environment, which will be part of a nation-wide observance of Earth Day. Although events such as these have focused attention on and marked the increasing importance of environmental issues, in the words of Sandford, the solution to the environmental problem is "not just an event; it is a process."

You're smart enough to know  
the difference between  
perestroika and glasnost.



And you're still smoking?

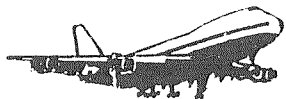
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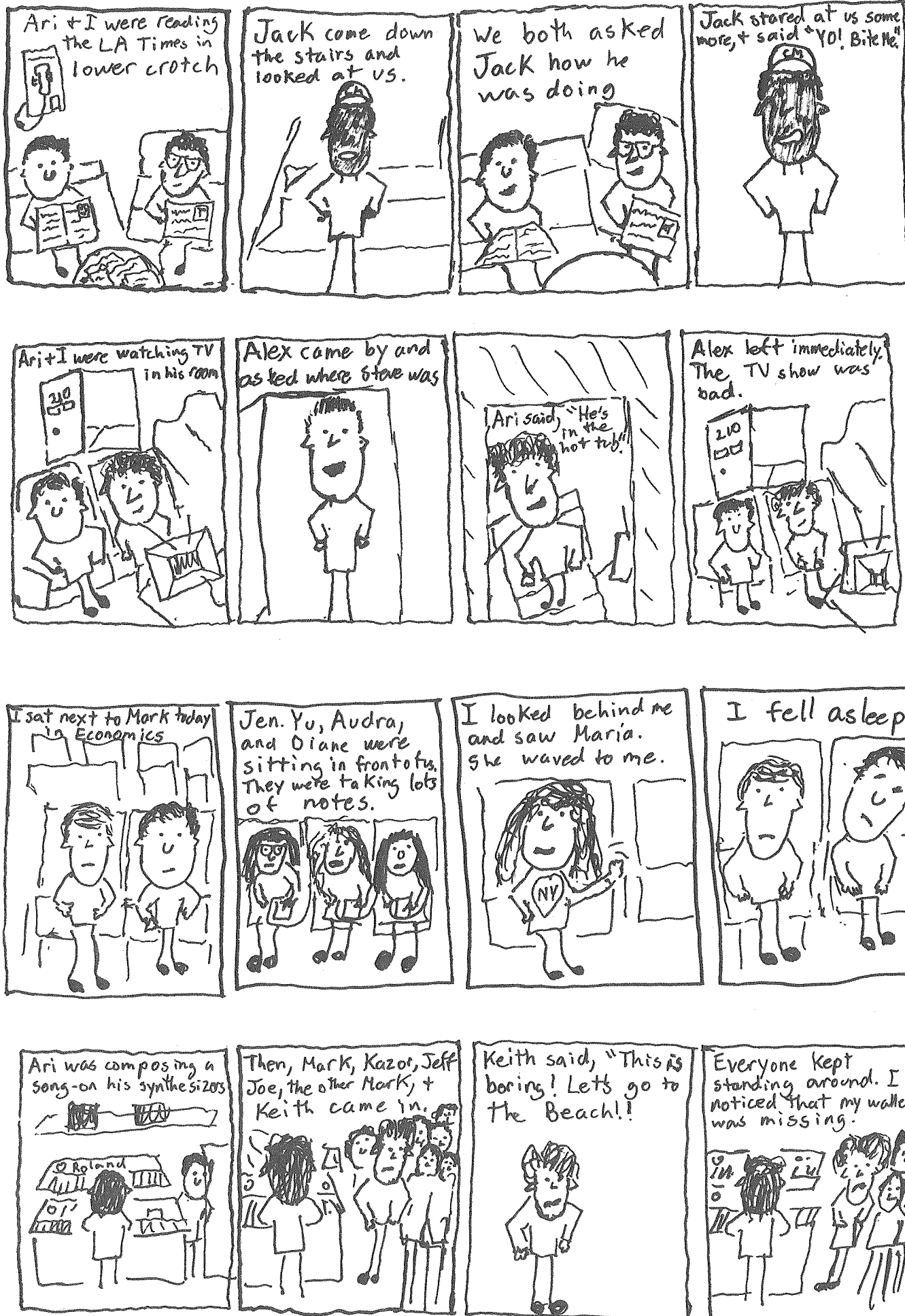
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-New York Film Critics

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Sat-Sun matinees 1:20, 4:10 p.m.

stuff

Lloyd's Journal Lloyd's Journal Lloyd's Journal



The Marin County Educational Foundation is offering grants for the 1990-91 academic year. Applicants must be Marin County residents and must complete a SAAC or FAF. For more information and/or an application contact the Financial Aid Office at 515 S. Wilson or call x6280. Deadline to apply is March 2, 1990.

Women's University Club-American Association of University Women is offering merit scholarship gifts for the 1990 summer session and fall regular session. Must be a U.S. citizen, a resident of L.A. county or an adjoining county, and currently enrolled in a graduate degree program in a local accredited university. Must have a minimum 3.75 GPA in a program of at least 8 units completed in semester preceding application. Show participation and leadership in groups or committees at the university or in the community. Must be available for an interview. Deadline for application is February 23, 1990.

The Planetary Society actively encourages science students through a variety of programs. The Mars Institute Contest is open to students in both high school and college, and college undergraduates are eligible for the College Fellowship Awards. For entry details write to: The Planetary Society, Scholarship Department, 65 N. Catalina Ave, Pasadena, CA 91106. Deadline for completed applications to be received by The Planetary Society for both the Mars Institute Contest and College Fellowship Awards is April 16, 1990.

Work In Japan?

If you missed the presentation about working in a Caltech alum's Japanese factory last week, you still have time to submit a brief letter of interest to the Deans' Office. The deadline is today, February 2nd. If more information is required, talk to Chris Hurwitz or David Carta, last year's participants.

Summer Internship

The MacNeal-Schwendler Corporation (MSC) is now accepting resumes for its 1990 Summer Intern Program. Both U.S. and non-U.S. citizens are invited to apply. All candidates should be upper division undergraduates or higher and available for ten weeks this summer. They have advertised 14 positions. MSC is located on Colorado Blvd. about a block past the Pasadena/Los Angeles border. Application deadline is today, February 2, 1990, and the Career Development Center thinks they are pretty strict about this deadline. For more information about this and other summer job possibilities, stop by the CDC, 08 Parsons-Gates, or call x6361.

Jesse Unruh Fellowship

The California State Assembly offers one of the oldest and most prestigious legislative fellowship programs in the nation. Up to eighteen individuals are selected nationwide to spend 11 months (October 1990 through August 1991) in the Assembly as legislative aides and committee consultants.

Applicants must have completed a BA or BS degree by the time the fellowship year begins. There is no preferred major. Recent Fellows have had backgrounds in such diverse fields as aeronautics and astronautics, development studies, rhetoric, religious studies, law and biochemistry.

In addition to paid enrollment in the graduate seminar, Fellows receive a monthly stipend (\$1560 plus periodic cost-of-living adjustments) and medical, dental and vision coverage.

Completed applications must be received no later than February 15, 1990. For applications, contact the Dean of Students, 102 Parsons-Gates.

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.

Career Development News

The City of Pasadena Water and Power Department is seeking applications for \$3,000 Energy Services Scholarship Program. Ten scholarships may be awarded during program year 1990 to fund academic projects related to the research and demonstration of energy-efficient developments. Graduate and undergraduate students in electrical power or energy-related disciplines are encouraged to apply. Deadline is February 15, 1990.

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.

SUMMER JOB SEARCH SEMINAR

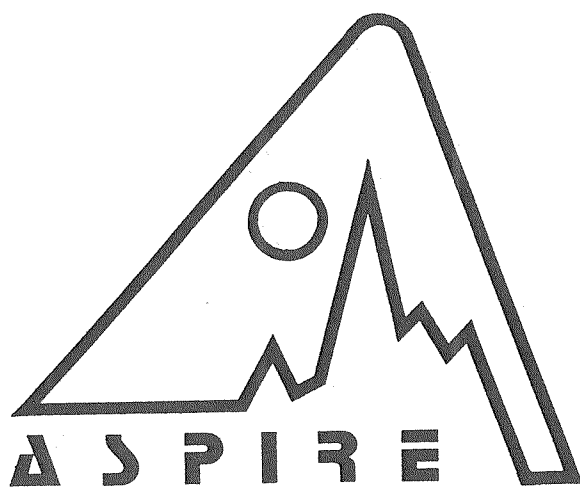
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**Cannon**

from page 1

of six miles. In January of 1975, a charge of between three and five pounds (depending on who is telling the story) was set off with the Cannon pointed directly at the doors of Page House. The destruction which followed prompted the administration to have Southwestern take the Cannon back. So, on January 17, 1975, the Fleming Cannon once again found itself on the lawn of Southwestern. It would be over six years before Fleming could reclaim its pride and joy, and bring the Cannon home.

On February 7 of 1981, after months of negotiations, in a re-enactment of events almost a decade earlier, the Cannon was once again pulled three miles and placed in its old spot in front of Fleming House. With only one exception it has sat there ever since.

Harvey Mudd College has always claimed to have a rivalry with Caltech. In 1986, several Mudd students decided to prank Caltech by stealing the Cannon. Waiting for spring break, when there would be little opposition to their plans, the Mudd students made their move. Loading the Cannon on a truck, they hauled it back to their campus. When the Flems came back from spring break, they found that their cannon was missing.

After finding out what happened and acquiring the necessary transportation for a three ton cannon, they left to reclaim it. Arriving at Mudd, they loaded the Cannon with spaghetti and taught the Mudd students that it's not wise to fool with Fleming.

Since then the Cannon has been secured to the Olive Walk and placed on the non-RF list, making any future pranks on it an honor code violation. With new safety rules, encouraged by the administration, it is unlikely that Fleming will ever lose the Cannon due to overenthusiasm. Currently the Cannon is fired six times per year - for Rotation, Ditch Day, Bastille Day, Commencement, and the end of the first and second terms. It is also fired for special occasions, such as next week's birthday celebration.

Nothing in Fleming's history rivals the story of the Cannon. It has been a favorite Rotation topic, site for class pictures, and source of memories ranging from the "Nordstom modified pound" and the Lloyd jello incident, to the day Fleming blew Page's doors wide open. The Cannon has touched the lives of all who have been involved with it. It is much more than a three ton piece of metal or an antique war relic. It is a part of history and a special part of the Caltech community.

**The Inside World**

This Week's **Inside World** was written by:  
**Blacker:** Walker Aumann and Noam Bernstein  
**Dabney:** David A. Edwards  
**Lloyd:** Ari Kaplan and Aaron Lipman  
**Ricketts:** Joe Dadek

Blacker	25 0 5 0 0 1 6
Dabney	38 0 1 1 3 2 7
Fleming	20 0 3 5 0 0 8
Lloyd	27 0 6 0 4 3 13
Page	15 0 4 3 0 0 7
Ruddock	33 0 0 2 1 0 3
Ricketts	23 1 2 4 2 4 13

**Dabney**

I'm free! I'm free! [evil laugh] No more roompicks, no more ExComm Minutes, no more overhead projectors! Now with elections over, I can just sit back, enjoy my huge room, and count the days until I get to hear the president of Dartmouth. Seth took Maneesh's place this year by nominating himself for **everything**. Too bad he doesn't know more about my love life. It's good to know that this year we got our priorities straight and brought a TV so we could watch the Super Bowl during elections. Congratulations to our new officers:  
 President: Pete "Cheech" Wyckoff V-Pres.: Dave "Chong" Bourgeois  
 Secretary: Ivar "Balls" Knutson  
 Treasurer: Rob "\$60 for 60 women" Hanna  
 Social V-P: Riki "No Competition" Moilanen  
 Comptroller: Yair "Suck My" Zadik  
 Marine Biologist: Brad "Rub-a-Dub-Dub" Threatt  
 Athletic Manager: Jon "Buttlicker" McGill  
 Historian: Alan "the Wave" Low Librarian: Steve "the Hair" Anderson  
 Chemist: Mags "Blondie" Taylor  
 Food Rep: Sven "U is for Underwear" Peterson

Alley 4 is the new Alley of the Gods and Goddesses after our successful defense of Alley 5's challenge. Of course, without Dean "I don't bowl that well" Brettle's 140 average and Chris "Squatter" Oei's terrible sense of direction, we may not have pulled it off. Overall, we did extremely well, even though Jennifer did get the booby prize. We're receiving new challenges, if any of the other alleys has the guts to put their pride on the line against us. And now a little memory test from Rotation:

**Match those Frosh!**

- |                             |                          |
|-----------------------------|--------------------------|
| 1. Kirsten Babbitt          | A. anthropophobia        |
| 2. Swagato Banerjee         | B. Ballroom              |
| 3. G. Richard Benzinger     | C. bathophobia           |
| 4. Raghav Chari             | D. Batik                 |
| 5. Trux Fulton              | E. Boardwalk             |
| 6. Stephen Heise            | F. Carbon                |
| 7. Jon Lange                | G. Colonel Mustard       |
| 8. Dong Lin                 | H. Conservatory          |
| 9. Alan Low                 | I. German Chocolate Cake |
| 10. Linda Maepa             | J. Illinois Avenue       |
| 11. Gabriela Mallen-Ornelas | K. Indiana Avenue        |
| 12. Betsy Marvit            | L. Iron                  |
| 13. Evangelos Metaxides     | M. Jai-Alai              |
| 14. Alf Mikula              | N. Just Visiting         |
| 15. Erika Moilanen          | O. Kitchen               |
| 16. Seth Noble              | P. Long Island Iced Tea  |
| 17. Sven Peterson           | Q. Lutetium              |
| 18. Keith Seitz             | R. Margarita             |
| 19. Jill Soha               | S. Peach                 |
| 20. Amy Stern               | T. phonophobia           |
| 21. Maggie Taylor           | U. psychrophobia         |
| 22. Stephen Thompson        | V. Rum Buck              |
| 23. Brad Threatt            | W. Sabbath               |
| 24. Patty Tsai              | X. Scandium              |
| 25. Chris Ulmer             | Y. Spumoni               |
| 26. Roy Wada                | Z. Tattoo                |
| 27. William Watson          | AA. Tea                  |
| 28. Andre Yew               | BB. Tycoon               |
| 29. Rich Zitola             | CC. Water Works          |

Answers are at the bottom of this column. And now, from the Dabney House version of Spy magazine, here comes:

**Separated at Birth: The Caltech Edition:**

Sven Peterson and Lurch and Tommy Newsome  
 Alan Low and Steve Bard and Nick Biery  
 Rich Zitola and the dummy in the Twilight Zone episode where Cliff Robertson loses his mind  
 Yair Zadik and the Venusian diner owner with 3 eyes in that Twilight Zone episode

Richard Benzinger and David A. Edwards  
 Richard Sincovec and John Lennon  
 Trux Fulton and Raggedy Andy and Dee Wallace in "Firestarter"  
 Dirk Runge and Rachel Schwartz Brad Threatt and Harold Zatz  
 Amy Stern and the picture of Dr. Who in the Alley 2 computer room  
 Jon Lange and Stephen Heise David Morton and Charles Manson  
 Elaine Lindelef and any "Amy" Swagato Banerjee and John Travolta  
 Alf Mikula and the lead bear from "Country Bear Jamboree"  
 Rob Hanna and Danny De Vito  
 Ivar Knutson and Gaby Mallen-Ornelas  
 Reneau Kennedy and Susan Howard and Jill Clayburgh  
 Allen Kennedy and Ben Kingsley Keith Seitz and Todd Allendorf  
 Tien-Yee Chiu and Bloody Mary from "South Pacific"  
 Maneesh Sahani and Richard Bang

Give me a break. I had a busy week.  
 1-D, 2-N, 3-W, 4-G, 5-K, 6-I, 7-F, 8-AA, 9-C, 10-CC, 11-Q, 12-M, 13-A, 14-Z, 15-B, 16-BB, 17-L, 18-J, 19-H, 20-P, 21-R, 22-E, 23-X, 24-T, 25-V, 26-S, 27-U, 28-O, 29-Y

-Tech's Darbana

**Blacker**

Back by popular demand, the Blacker Hovse Inside World. Sorry, dudes, but we've got work too. There's more to life than the Inside World (or so they tell us). We were kind of hoping that the frosh would get a clue and do something, but we forgot that our frosh are LAME! The frosh have been persecuted with no ill (or even dampening) effects on the perpetrators. Welcome to the new kinder, gentler Blacker Hovse when you can RF more than half the frosh and get off scot free.

Well, maybe not all of them are completely lame, just mostly lame. Any more news on "The Perfect Ride", Bill? After the stunning performance of your first one, we can hardly wait. Don't knock yourself out too much, though. Remember, you're the one who gets to clean up after it now.

I will give the Cubs one thing. They could probably beat the Broncos in football. Baseball, on the other hand, is a different story...

Roompick was a while back. We're mostly moved in now. Only a half dozen or so boxes left, and I'm sure we'll be done by next roompick, although moving out went rather smoothly with nothing obstructing our path, including the hooks in the closet. Also, we hereby resolve not to blast obnoxious music into the library anymore. We're sorry if we annoyed you. Stay out of the courtyard.

We'd like to express our sympathies for those poor unfortunates in Ricketts that, due to their roompicks, are forced to live on our courtyard and listen to the annoying sounds of sophomores flaming to the sound of yum-yum monsters. The president's life is such a difficult one. Speaking of yum-yums, the Lloydies have gotten to 36th level. Congratulations, guys, that's better than we'll ever bother to do.

As usual, Nominations succeeded in their primary purpose. Dinner went even longer than expected, although we didn't reach last year's record of over 400 offices. Oh well, there are always write-ins. They also succeeded in their secondary purpose - exposing the true desires of certain members of the hovse. And all this time, we thought the sounds coming out of 00 were cats being tortured to death. Besides, isn't that sort of thing illegal in New Hampshire?

Hovse elections we as serious as ever. Suprise events included John Sununu's sudden withdrawal from the presidential race and endorsement of Ben Holland, and Graham "Synonym" MacNamara's fanatic support after proclaiming himself the emperor, messiah, and God incarnate. It was a joke, dammit. Why didn't any of the frosh get it? In a distinctly antisocial move, several people maliciously voted for the Antisocial Team for social team, and we didn't cast any of them. Not even we are that antisocial. And remember, Monday is a mandatory Metallica Monday. Mosh it up!

This week's social event: Pestering social team about this week's social event, Pete about alley ordering, Andrea about the hovse list, Brian about a card catalog, and ath team about sugar bags, dammit. This week's Antisocial event: watching frosh build their variable voltage regulated power supplies.

"Boy, that's gotta suck."

**INTERIOR ACTIVITIES REPORT FORM BHE&SDC/TRK12**

Authors' Names: Shadowstar and trolllarge  
 Supervisors' Names: Supervisors? We don't need no stinkin' supervisors  
 Supervisors' Initials Verifying Authenticity Of Above Authors' and Supervisors' Names: K.N. & A.C.

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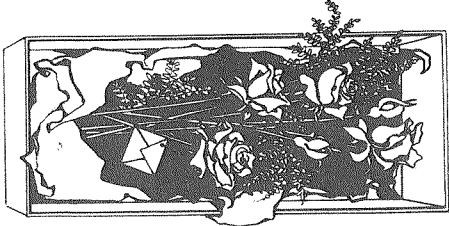
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## ASCIT Elections Update

After all protests had been considered, the initial presidential and vice-presidential election was ruled valid, and David Geraghty was elected as new ASCIT president and there was a runoff between Craig Volden and Kevin Luster. Nominations for upperclass director-at-large, frosh director-at-large, IHC chairman, director of academic affairs, secretary, treasurer, director of social activities, athletic manager, activities chairman, and *Tech* editors. Statements are due to the *Tech* by Wednesday, February 7, and elections for these offices is on Friday, February 9.

## ENGINEERS OVERSEAS

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- wear a suit and tie
- shuffle papers and answer phones
- sit at a desk all day

**DO:**

- live in foreign countries
- work outdoors
- take charge
- make decisions
- face many challenges
- bear heavy responsibility
- work long hours
- operate sophisticated electronic equipment
- record information on oil and gas wells
- interpret that information

**ENJOY:**

- being their own boss

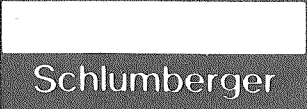
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Caere will conduct on-campus interviews February 7. We require programming expertise and a B.S. or M.S. in Computer Science, Electrical Engineering, Mathematics, or Physics. Skills in C, assembly, UNIX, NeXT, Macintosh, pattern recognition, image processing, and quality assurance are assets.

Come to an informal meeting with Carl Alsing. Carl, the midnight programmer in *The Soul of a New Machine* and Caere's Manager of Software Development, will talk about "How to Teach Machines to Read." Refreshments and interesting ideas will be plentiful. You'll be able to talk to Carl about your interests and ambitions. The meeting will take place in SAC Room 13, from 4 to 6 p.m., on Tuesday, February 6.

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## —movies—

# Flashback

by Shane Sauby

Ask anyone over thirty, or anyone who loved *Easy Rider*, who they would pick to play a hippy in a movie and they would say Dennis Hopper. Some of you may remember him as the alcoholic assistant coach from *Hoosiers*, or the whacked out science teacher from *My Science Project*. In the later he returns from the future with a beard, brandishing a peace symbol and stating that the future *will be groovy*.

Well, in the Paramount release, *Flashback*, Dennis Hopper is the perfect hippy. His entire manner says rebel, but only when it needs to, and the rest of the time he's laid back and peaceful.

Hopper plays Huey Walker, the man who made the cover of time twenty years ago, after pulling a prank on the Vice-President, Spiro Agnew. He's arrested by the FBI for malicious activity or some such, and promptly escapes. Its twenty years later, and an anonymous phone call helps the FBI catch him again.

Now its up to John Buckner, played by Kiefer Sutherland, to transport him from San Fransisco to Spokane, where he will be tried. With a little help from the weather, a long train ride ensues, during which Walker plans his escape. When they reach a stop over, Huey is in Buckner's clothes, impersonates John, and places John in the custody of the local police. While in jail, Buckner is abused by the sheriff, who is running for Congress.

After a phone call from the FBI, the identity problems are solved, Walker and Buckner are brought back together (I'll let you find out how), and then both become fugitives as the Sheriff Hightower tries to kill them both.

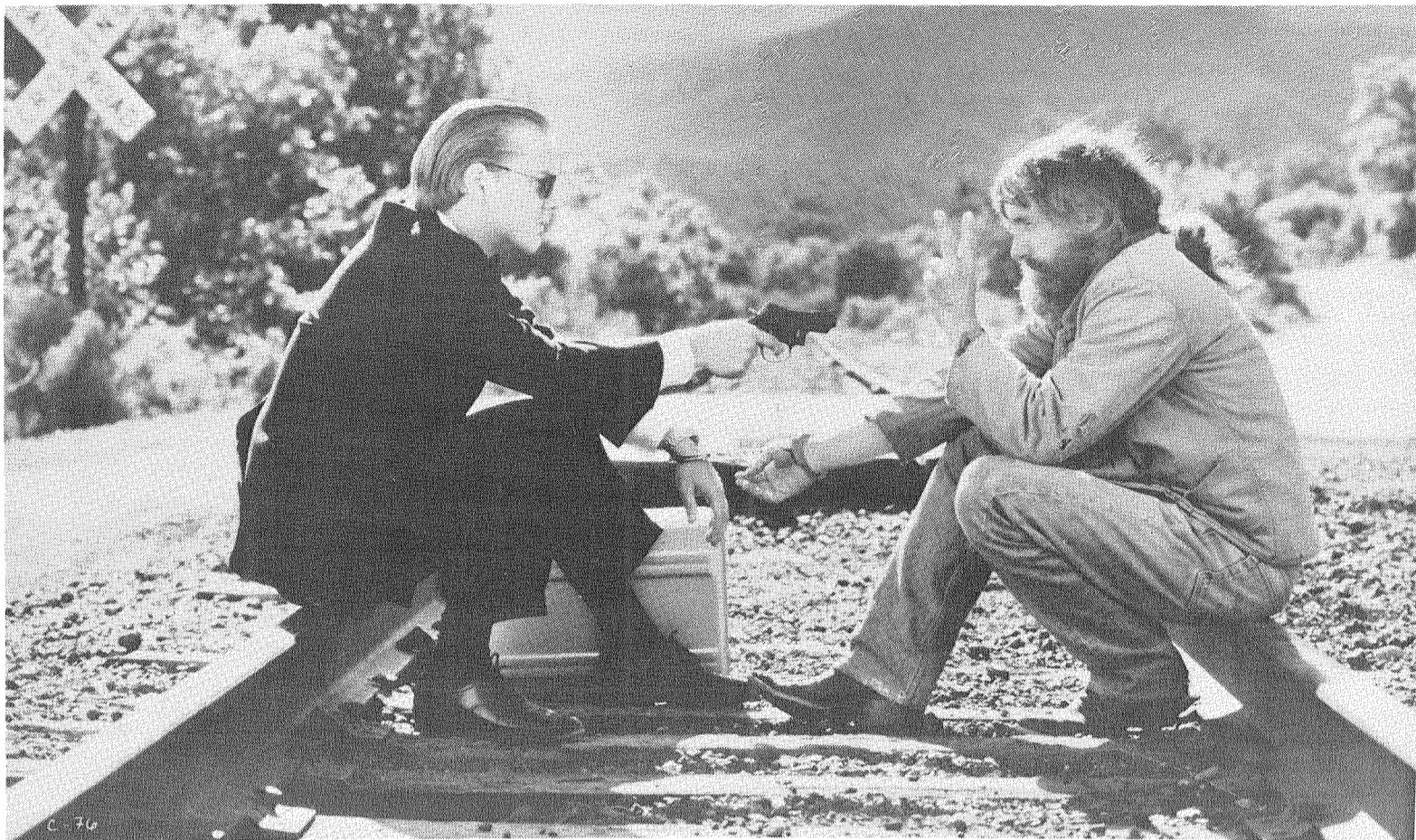
The movie as a whole is fine comedy and good entertainment. Both Sutherland and Hopper do fine jobs of portraying their different, yet similar characters. Hopper is great at being slightly off-center, looking at things differently then most of us, and seeing the good in the bad and vice versa.

There are some moments in the beginning of the film where the obvious message of the movie is blatantly exposed, but these moments are few and far between. The action scenes are a little too staged and forced in places, but the flow of the movie is fairly good.

Along with Hopper and Sutherland, there are some fine performances put in by the supporting characters. Carol Kane shows up as an old friend of John's, being both happy to see him and upset that he hasn't kept in touch.

The funniest performances other then the leads were the two bungling ex-rebels that Huey bumps into in a bar, played by Richard Masur and Michael McKean. Their bungling attempt to save Huey from the FBI backfires completely.

Overall, *Flashback* had its moments and actually gave the viewer something to think about. It rates three and a half stars.



Slick FBI agent John Buckner (Kiefer Sutherland) keeps Huey Walker (Dennis Hopper) at gun point while Huey just wants to make peace.

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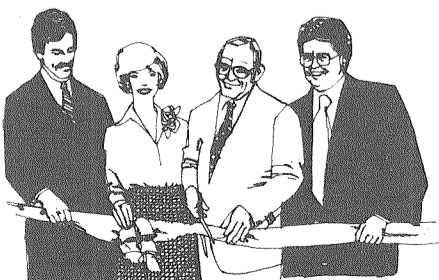
Student Activity Center

Room 34

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Ricketts

Enter TELNETconnect chrome%telnet chrome 4201 Welcome to TinyRHIS connect Messiah Hobag

Limbo

You are in a misty area. You cannot see anything or anybody here. Somehow you seem to know which way leads to Ricketts. **Scurvedom**

Ricketts Courtyard

This is a brick-floored area with a large cement POT in the center. Exits lead off to various parts of the house. Fizyx looks at the POT with a satisfied expression. Suddenly a large fireball erupts out of the POT, singeing your eyebrows.

north

Up Your Alley

This alley is the home of many bizarre creatures. You see the Limey and the Furr'ner doing disgusting things beyond the Rad tape.

up Herc Alley You see a whopping huge pillow at the end of the alley. Lying on the pillow is Ross TenEyck, a superior fencer and a man who has never glommed anyone in his life. He is busy glomming Joanna.

west

Computer Room

You see a number of people here playing TinyMUD, a game on Chrome which allows you to construct little worlds in which to roam around. These people seem to have no life as they are busy simulating Ricketts House and the rest of Tech on the computer. Guru is here writing the Ricketts House Inside World(RHIS).

look guru

A wild-haired, bearded man with penguins on his feet.

ask guru about ph106 notes

"Go find them yourself. I'm busy now. Why don't you guys figure out how to do your 106 on your own?"

out

Snatch Alley

There is a heavy concentration of Froosh(sic) in this alley, many of which are named Dan, hobbling around on crutches, or both.

closet

You enter the room of a cute Froosh girl, who is busily babbling about Malathion and Three Little Fishies. You see several Immoral Influences hanging about.

out

Snatch Alley

One of the Dan's is going on about his home planet of Gallifrey. He displays the Mark of a Time Lord on his left wrist and hauls out his TARDIS which is currently in the form of a trunk.

down

While going down the stairs to Cherry, you stumble and twist your ankle. You fall to the bottom of the stairs, which is conveniently located outside an ex-Health Advocate's room. She patches you up and kicks you out screaming, "Pay your Housebill!"

Cherry Alley

This a long red alley with little activity. From one room Beethoven can be heard.

north

Ricketts Courtyard

The pot is still here. It is surrounded by grunting Phlegms failing miserably to lift it. Obviously, they don't realize that it is cemented into place.

west

Ricketts Lounge

Upon entering, you immediately note that the ceiling of Ricketts Lounge looks amazingly like a waffle. The lounge is filled with people playing bridge, watching TV, or sitting in front of the fire. Frank walks in wearing a pair of ludicrous boots.

look boots

Looking at the boots is too painful, and the idea of them on Frank nearly causes you to burst into laughter. Frank walks out of the lounge, and you soon hear the sounds of a car in the process of disintegrating.

north

Olive Walk

People are wandering about, going to class or to the Ath.

north

As you attempt to enter the Master's Office, a wild-haired, bearded man with a blue baseball cap threatens to PNG you from the Universe for daring to disturb him. You quickly retreat to the Olive Walk.

south

You cross the RF courtyard, go down the stairs into the SAC, and enter... The Coffeehouse A number of booths and tables with comics strewn everywhere. A variety of food-like substances are available. Bonus Awarded! The Jeitner is working the counter tonight.

order milkshake

"I refuse to serve anyone wearing a bathrobe. Go put on some real clothes and I'll serve you," the Jeitner says with a grin that makes you want to push in his face.

give jeitner a boot to the head

Just as you are about to show the Jeitner just what you think of him, a crowd of Scurves rush into the room and stare at the clock. All of a sudden, they shout "Bust o' Justice, Bust o' Justice, Bust o' Justice, UT!" Then they turn around, face the Jeitner, and say "Hi, Dave!" The Jeitner is nonplussed.

follow scurves

You follow the Scurves back to Ricketts House. L.D. Alley This is the alley of Quiet Froosh. They certainly seem rather noisy for quiet people. In fact, Weird AI music is blasting out of one room at the end of the hall.

enjoy music

Suddenly, in synchronization, two women burst out of their rooms, run down to the room with the music and lob hand grenades into it. After a loud "Ka-BOOM!", they turn back to their rooms with satisfied smiles, enjoying the silence.

south

Broken Cherry

This blue alley contains a whopping huge couch. Some people are sitting on it discussing various unimportant topics. Seniors' rooms are open, but the Seniors seem to be out hiding.

up

As you climb the stairs, you are horrified to see a body hanging from the floor above. You then realize it is merely stuffed clothes and a toy eagle. Prexy Several large Senior rooms are in this alley, 'Los, and the Froosh double. Leopold and 'Los are debating in a heated frenzy about how many hit points God has.

scream in agony

'Los and Leopold ignore your pain and continue debating. Ben wanders up and joins in the conversation.

run away

You dash down the stairs, tweaking the guard pterodactyl's nose on the way, not stopping until you reach... Snake You can't get much further from the rest of the house than here. The only live spot seems to be Shroom's room. **Shroom Room of Tromeey**

This room is full of mathematician and computer paraphenalia. Sitting in a corner is the mighty machine, Chrome. Boy, just think how many people you could annoy by turning it off.

turn off chrome

Tom runs in shouting, "You fool, you can't turn off the computer when you're already in it!" He drives you out of the room and shuts the door.

Snake

Still pretty boring.

home

There's no place like home... There's no place like home... There's no place like home... You arrive home without your possessions.

Guru's Room

This room contains many tomes of wisdom and some places for contemplating them. As usual, the room is filled with people hanging out and doing or avoiding work. They're on the bed, in the chair, sitting on the floor, and standing around in the doorway.

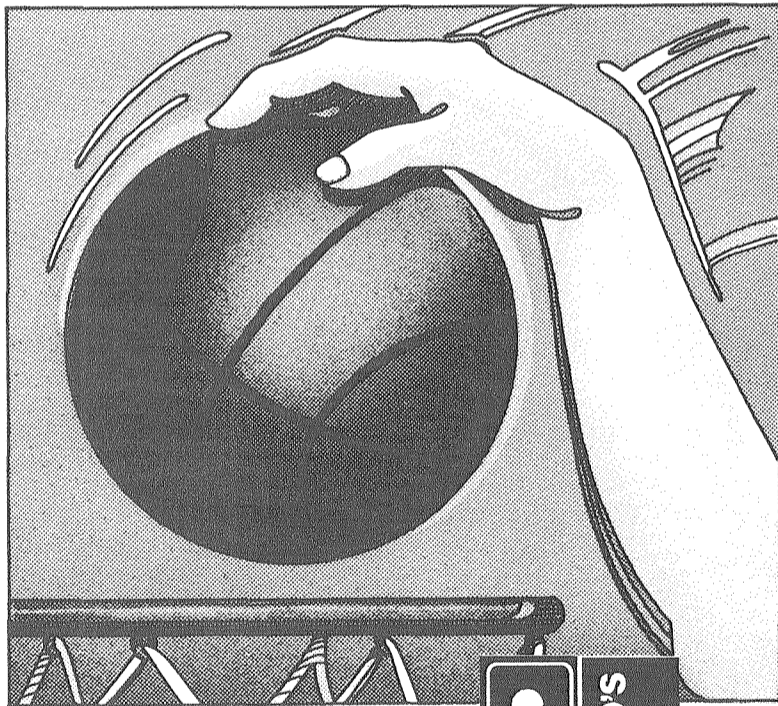
go away

You say "go away" Amazingly, the crowd actually listens to you, allowing you to get to sleep at a decent hour for a change. Too bad you have two problem sets due tomorrow.

QUIT

Good move. \*\*\*Disconnected\*\*\* Connection closed by foreign host. %logout  
-The Physics Messiah and his pal Guru

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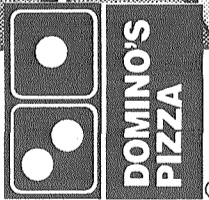


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**February 16, 1990**

Come talk with us on February 15 at the CalTech Career Fair.

See your Career Planning and Placement Office for more details.

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# Caltech Readers Poll Rules

## No Xeroxed Ballots

Ballots must be dropped off at the *Tech* office, room 40 in the SAC, or sent to *The California Tech* 40-58 by Thursday, February 8.

One ballot per person, please.

## Circle One:

- Student
- Faculty
- Staff
- Other

Next issue is our last issue, we hope, The Best of Caltech Issue. So, by filling out this survey and sending it back to us we promise to get you the results before the administration gets us the results of the campus life survey that we filled out last year.

**Humorous comments or elaborations on your answers are encouraged.**

1. Best Pizza \_\_\_\_\_
2. Best Chinese Food \_\_\_\_\_
3. Best Mexican Food \_\_\_\_\_
4. Best Hamburgers \_\_\_\_\_
5. Best Thai \_\_\_\_\_
6. Best Sandwiches \_\_\_\_\_
7. Best Coffeehouse Waiter \_\_\_\_\_
8. Most Irritating Coffeehouse Waiter \_\_\_\_\_
9. Best Place to Buy Condoms \_\_\_\_\_
10. Best Grocery Store \_\_\_\_\_
11. Best Local Band \_\_\_\_\_
12. Best Radio Station \_\_\_\_\_
13. Best Line to Get a Woman/Man in Your Room \_\_\_\_\_
14. Best Euphemism for Vomiting \_\_\_\_\_
15. Best Excuse for Not Graduating in 4 Years \_\_\_\_\_
16. Best Music Store \_\_\_\_\_
17. Favorite Band \_\_\_\_\_
18. Best T.V. Show \_\_\_\_\_
19. Favorite Movie Theatre \_\_\_\_\_
20. Best *Tech* Editor (Circle One) \_\_\_\_\_ Mark Scott Paul
21. Most Annoying *Tech* Editor \_\_\_\_\_ Mark Scott Paul
22. Best Classroom \_\_\_\_\_
23. Best Teacher \_\_\_\_\_
24. Best Toilet \_\_\_\_\_
25. Best Outgoing ASCIT Officer \_\_\_\_\_
26. Best Off-Campus House \_\_\_\_\_
27. Best Caltech Sports Team (Bridge and Debate are Not Sports) \_\_\_\_\_
28. Best ASCIT- or Y- Sponsored Event in the Past Year \_\_\_\_\_
29. Best Caltech Party Party in the Past Year \_\_\_\_\_
30. Best Newspaper \_\_\_\_\_

# what goes on

# scholarships

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.

## Cinematech

This week, Cinematech presents Ingmar Bergman's classic film *The Seventh Seal*. This timeless work, on life, death, and chess, will be shown at 7:30 and 10pm on Saturday.

## Caltech SEDS Meeting

The next meeting of Caltech SEDS will be held on Monday, February 12 at 7:30 pm in Rm. 13 (Clubroom A) of the SAC. We will be discussing our plans for future SEDS events, including tours of Palomar, JPL and the Rockwell facility in Palmdale, where the Space Shuttle *Endeavor* is being built. We will also discuss our plans for the Get-Away specials we have inherited. We will be showing the video of the post-flight news conference of STS-30 (*Atlantis/Magellan*). Refreshments will be served.

## Fishing For Ideas

*The Fishline*, a newsletter serving all Christians of the Caltech community, needs material! If you have any ideas, upcoming events, or articles that you would like to share, please submit them (Mac format, if possible) to *The Fishline*, 126-58. Also welcome are announcements by neighborhood churches, Christian groups and clubs, as well as mailing list additions. Contact Mike Nassir (578-9833) for more information.

## Science, Ethics and Apes

Philosophy professor John Dupré of Stanford University will be speaking on the subject of "Conversation with the Apes: The Scientific Study of Language" on Wednesday, February 7 at noon in the Judy Library, Baxter Hall. This brown bag lunch talk is part of the Science, Ethics and Public Policy series.

## Caltech Sailing Club

The Caltech Sailing Club will hold its first general meeting on Wednesday, Feb. 7th at 6 pm in Rm. 23 of the Athletic Center. Stop by to find out how you can join.

## Wanta Get Cultured?

If you would like to know about local theatre, museum or activity center activities and schedules, leave a message in the IN box of *The California Tech* or write to mail code 40-58. There is too much information to be printed, but inquiries will be answered, to the best of Shane Sauby's ability.

## The Red Door Needs You

The Red Door Café is looking to hire some undergrads to work at our new place (under the red awning, across from Winnett). It's a lot of fun, and we pay \$6 an hour. Call Sharon at 577-1953 or x4757.

## NSS President Speaks At Caltech

On Friday, February 16 at 8 pm in 22 Gates, the Students for the Exploration and Development of Space and the California Space Development Council present Mr. Charlie Walker, former space shuttle astronaut and currently the president of the National Space Society. Mr. Walker's talk is entitled "An Individual CAN DO Research and More in Space." For information, contact Irwin Horowitz at x4121 or 577-1930.

## 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.

## Submit To The Totem

An effort is now underway to produce another issue of *The Totem*, the Caltech literary magazine. In the past, the main barrier to publication has been profound apathy (i.e., submissions have been about a tenth that required). This is a plea for all interested students to submit their art, poetry, and short fiction or, at least, to offer suggestions. Please include your name, campus address, and phone number. Submissions to Ben Schaeffer, 1-59, x6173.

## 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.

## 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. The speaker for February 6 will be Michael Shere from Gay & Lesbian Alliance Against Defamation. After the talk, 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.

## Bee Keeping & Human Spirit

The Caltech Hillel in conjunction with the Caltech Y is co-sponsoring a unique, challenging and fun evening with Rabbi Richard Israel on Tuesday, February 13 from 7:30 to 9:30 pm in Clubroom 1 of Winnett Center (2nd floor). Mr. Israel is an avid beekeeper and uses beekeeping as a metaphor in addressing many of the social and political issues of our time. His approach is interdisciplinary and applicable to all faiths. The lecture and slide show promises to be humorous as well as enlightening, and of course FREE!!

## Play Bridge

Play bridge at the Caltech Bridge Club this Monday. We meet every Monday at 7:15 pm at the Red Door Cafe in Chandler Dining Hall. No card fee, no membership fee, no partner needed. Undergrads, grads, faculty, etc. welcome.

## 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.

## Potential Clippers Tickets

The Caltech Y may be able to get L.A. Clippers tickets. Anyone 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.

## 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 February 12, and follow every two weeks. All members, and those who want to be members, are encouraged to attend. As always, there will be free munchies. Please contact Dong-su Kim at x8309 if you have any questions.

## 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.

## 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.

## Career Development News

The Careeredge Regional Collegiate Job Fairs will have approximately 65 major corporations attending. The companies will be looking to hire for the entire southern California area. This year there will be two fairs, one Tuesday, March 6th in Anaheim, and one Thursday, March 8th in Los Angeles. Stop by the Career Development Center, 08 Parsons-Gates, for more information.

## Voyager's "Last Picture Show"

During the next four weeks the city of Pasadena's cable television channel (Cencom channel 55, KPAS) will broadcast a review of Voyager 2's encounter last summer with Neptune. This recap features Voyager project scientist Edward C. Stone, professor of physics and vice president for astronomical facilities at Caltech. Dr. Stone's presentation, taped at his Earnest C. Watson Lecture at Caltech, includes some of the stunning close-ups of Neptune and its moon Triton during what many observers called Voyager's "last picture show" last August.

The program started this week, and runs for four consecutive weeks on Mondays at 9 pm, Wednesdays at 10 am, and Saturdays at 7 am. For more information, call KPAS at (818) 794-8585.

## Do You Read?

*The California Tech* currently has three review copies of books: *Stand Up Comedy, the Book, God, I Listened, and Out of the Shadows of Night*. If you would like to review one of these books, and possibly keep it, please contact Shane Sauby at 577-4423 or mail code 40-58.

## Last Chance For Chamber Music

The Caltech Chamber Music Ensembles present a their third and final winter series free concert on Saturday, February 3 at 8:00 pm in Dabney Lounge. The performance, which includes two trios by Beethoven, a trio by Brahms, a quartet by Fauré and a *Sonatine*, a brass quintet by Bozza, will be followed by a reception.

## More Horse History

Part 3 of 6 of *The History of the Horse* will be shown on Monday, Feb. 5 by the Caltech Non-existent Equestrian Team. All are welcome to come and watch. As usual, it will be on our big screen in Rm. 19 Baxter, noon to 1 pm. Bring your own lunch. If any questions, call Liz at x4515 or Victoria at x3828.

## Bouncy Singers Need Homes

Up With People, the international group of young performers, will be coming to Pasadena on February 12-14 to present their silver anniversary show, "Face to Face" at the Pasadena High School Auditorium. The proceeds from the show are going to the Pasadena Citywide Arts Program. The 170 members of this cast, representing 23 different countries, need places to stay during their visit, especially with families. If you are interested in offering space to these temporary "exchange students" from around the world, please call Sarah at 794-1156.

Also, if you're 18-25, single, in good health and have boundless energy, call her if you're interested in spending a year on the road...

## 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.

## 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. 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. Meetings will be for information, tournament registration, and practices. For more information, contact Craig Volden at 1-60 or 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 Intercollegiate 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.

## 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 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 Honorably 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 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 Arizona Honors Academy has an opportunity for undergraduates to discuss important world issues with writers, sociologists, 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 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 Energy Exchange of Greater Los Angeles will award scholarships of \$1,000 each to students entering the junior or senior year of college September '90. 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 Ave. Completed applications are due in the Financial Aid Office by February 23.

Got any good ideas for a Martian speedometer? In the international mission to be launched to Mars in 1994, Soviet wind-driven balloons will carry scientific instruments in a gondola and in an international guiderope (affectionately called "the snake"). The Planetary Society invites ideas for solutions to design problems of the "snake". For more information contact Dr. Bruce Murray, The Planetary Society, 65 N. Catalina Ave., Pasadena, CA 91106 or call (818) 793-5100. Deadline for entries to be received at The Planetary Society is February 16, 1990.

# SERIOUS MUSIC

The Beatles

The Stones

The B-52's

The Cure

The Sugarcubes

# THE PHIL

We're talking **SERIOUS MUSIC**... like Beethoven, Brahms, and Mozart. The Los Angeles Philharmonic gives you this serious music... **TOTALLY LIVE**... in a setting that's much more intimate than the Coliseum or the Forum. And where else can you get an incredible deal like **TWO TICKETS FOR \$5.00** in February for a live concert, just by showing up at the Philharmonic's Music Center Box Office with your current, valid student I.D. no more than 2 hours before the concert. (You don't have to camp outside all night just to get seats behind a speaker.)

Here's a great idea... join the Philharmonic's free Student Frequent Buyer Program by calling (213) 850-2050, buy 3 tickets and get a fourth ticket FREE.

## FEBRUARY SPECIAL 2 TICKETS FOR \$5.00

### This Week!

Fri. and Sat., Feb. 2 and 3, 8:00; Sun. Feb. 4, 2:30

Simon Rattle, conductor

Anne Evans, soprano

Hans Sotin, bass

Messiaen: Et expecto resurrectionem mortuorum

Wagner: Ride of the Valkyries and Final Scene from Die Walküre

Sun., Feb. 4, 7:30

Mercedes-Benz Celebrity Series Recital

Radu Lupu, piano

Music by Bach, Schumann, and Liszt

### Next Week!

Thu. and Fri., Feb. 8 and 9, 8:00; Sun., Feb. 11, 2:30

Simon Rattle, conductor

Stephen Hough, piano

John Aler, tenor

Beethoven: Piano Concerto No. 3

Liszt: A Faust Symphony (with Men of the Los Angeles Master Choral)

Mon., Feb. 12, 8:00

Mercedes-Benz Celebrity Series

San Francisco Symphony

Herbert Blomstedt, conductor

Haydn: Symphony No. 86

Carlson: Rhapsodies

Dvořák: Symphony No. 7

Tue., Feb. 13, 8:00

Mercedes-Benz Celebrity Series

San Francisco Symphony

Herbert Blomstedt, conductor

Beethoven: Overture, Leonore No. 2

Sessions: Symphony No. 2

Tchaikovsky: Symphony No. 2 (Little Russian)

Upbeat Live free pre-concert discussions 1 hr. before concerts (except Mercedes-Benz Celebrity Series)

For the whole scoop, just call (213) 972-7211.

Seating at the discretion of the Box Office, subject to availability. Artists, dates, and programs subject to change.

**LOS ANGELES PHILHARMONIC**

SPORTS

Men's Tennis Finds Victory Loma Linda 83, Caltech 57

by ThunderChris

Welcome back, tennis fans! It's going to be another action packed season of Caltech tennis! Saturday, January 27 marked the opening of the men's season with the crushing of Southern California College (SCC) 7-2 in beautiful Costa Mesa. Let's take a sampling of the awesome pregame discussion.

D.C. - "Hey guys, let's go to the beach!"

Upperclassman - "The beach? We have a tennis match to play!"

"Yeah, but it's such a nice day. I wanna go to the beach! Besides they don't have any tennis courts here."

"What? They don't have any courts here?"

"Nope. We're so good we blew their team AND the courts right off the earth!"

"What? No team either?"

"Nope. Hey coach, can we go to the beach?"

That's right, sports fans. The men's tennis team looked around and couldn't find the opposing team. Until they decided to check out a nearby park.

"Ah ha! There they are. And look! They have nice uniforms."

"Well, you know the nicer the uniforms, the worse they probably are..."

Coach - "Okay, everyone get two of three tennis balls and take them to the courts."

Hemant - "Then what do we do with them?"

Okay, so the pregame discussions weren't all that awe-inspiring. But don't worry. Caltech's

tennis team had lots of talent and welcomed SCC back to collegiate tennis after fifteen years of absence with a nice defeat.

In singles, junior Dan Pang started the new year in the Beavers' number one spot and wasted no time trashing his opponent 6-2, 6-3. Pang forced his opponent to throw up weak shots and had no problem cleaning up in each set. Number two Hemant Keny forged off well to build a 6-4 first set lead playing solid tennis, but his opponent reconstructed his game and handed him a loss with third set tiebreak.

Jimmy Ng also played a three set match, and eventually burned his foe in a 6-4, 4-6, 6-3 conflagration. Ng scorched him numerous times with hellish topspin lobs, singeing the SCC player's confidence as well as his ego. Bappa Mukherji, starting for CIT after a year off from team, won his singles match 6-3, 6-4 with a little strategy, cunning, and luck-combined.

In the fifth and sixth singles, Coach Mike Jackson started two freshmen, Greg Wardle and Kevin Wang, each with great potential. Wardle, complimented as being "consistent as a ball-wall," got to every shot in his match, and kept the ball in play, waiting for his opponent to make the unforced errors. The errors did pile up, as Wardle marched on to his first collegiate varsity match 6-3, 6-1. Wang, in his first match, found himself playing a rather large opponent but with rather weak, dinky

shots. Overcoming first set jitters, Wang came back strong in a 3-6, 7-5, 6-1 thriller. In transitional varsity, Robert Liu played a tough match, but ceded in a two-set loss.

Caltech, having already won the day, entered doubles with confidence. In first spot, Pang and freshman Danny Chu rolled over SCC, crushing them under heavy returns and passing shots in a 6-3,

continued on page 10

	fg	fg	3pfg	ft	rebounds						
	m-at	perc	m-at	m-at	df	of	A	TO	Pts		
Swanson	7-8	87.5	0-0	2-6	4	7	0	1	16		
Karceski	5-7	71.4	3-5	1-2	1	0	4	3	14		
Oslakovic	4-8	50	0-0	0-0	0	1	4	5	8		
Ahle	2-6	33.3	2-5	0-0	2	0	3	4	6		
Creath	3-6	50	0-0	0-2	4	0	0	2	6		
Ralph	2-7	28.6	1-3	0-2	1	1	5	1	5		
Kollmorgen	1-4	25	0-0	0-0	0	0	1	2	2		
Totals	24-46	52.2	6-13	3-12	12	9	17	17	57		

WEEKLY SPORTS RESULTS

Day	Date	Sport	Opponent	Results
Thu.	1-25	Swimming (M-W)	Loyola Marymount, Occidental, and Colorado College	LMU, W 28-134 Occidental, M 80-144, W 30-107 Colorado College, M 39-200, W 28-138
Sat.	1-27	Basketball	LaVerne	50-85
Sat.	1-27	Tennis (M)	Southern Cal College	7-2
Sat.	1-27	Tennis (W)	Christ College	3-5
Sat.	1-27	Swimming (M-W)	Whittier	(M) 146-28, (W) 32-128
Wed.	1-31	Basketball	Loma Linda	57-83

WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Fri.	2-2	11:00 am	Tennis (M)	Menlo College	Menlo College
Sat.	2-3	10:00 am	Fencing	USC & UCSD	Caltech
Sat.	2-3	10:00 am	Tennis (W)	Pomona-Pitzer	Pomona-Pitzer
Sat.	2-3	11:00 am	Swimming (M-W)	Redlands	Pomona-Pitzer
Sat.	2-3	11:00 am	Tennis (M)	Dominican College	Dominican College
Sat.	2-3	12 noon	Baseball	Pacific Coast Baptist Bible	Caltech
Sat.	2-3	12 noon	Basketball (JV)	Redlands	Redlands
Sat.	2-3	2:00 pm	Basketball (V)	Redlands	Redlands
Sat.	2-5	1:00 pm	Golf	Whittier	Occidental
Tue.	2-6	3:00 pm	Tennis (M)	Southern California College	Caltech
Tue.	2-6	7:00 pm	Baseball	La Verne JV	La Verne
Wed.	2-7	3:00 pm	Tennis (W)	La Verne	Caltech
Wed.	2-7	6:00 pm	Basketball (JV)	Pomona-Pitzer	Pomona-Pitzer
Wed.	2-7	8:00 pm	Basketball (V)	Pomona-Pitzer	Pomona-Pitzer
Sat.	2-10	11:00 am	Swimming (M-W)	U.C. Riverside	U.C. Riverside
Sat.	2-10	12 noon	Baseball (2)	Pac. Coast Baptist Bible College	P.C.B.B.C.
Sat.	2-10	12 noon	Track	CIT Invitational I	Caltech
Sat.	2-10	6:00 pm	Basketball (JV)	Claremont-Mudd	Caltech
Sat.	2-10	8:00 pm	Basketball (V)	Claremont-Mudd	Caltech

Minnesota at Michigan St.	Jacksonville at S Florida	VA-Comm at George Mason	G. Wash at Rutgers	S Alabama at NC-Charlotte	American at Old Dominion	Marquette at Butler	S. Carolina at Tulane	Wisconsin at Indiana	Northwestern at Ohio State	Va. Tech at Louisville	
Scott Kister (59-29)	Michigan St.	S. Florida	VA-Common	Rutgers	NC-Charlotte	Old Dominion	Marquette	S. Carolina	Indiana	Ohio State	Louisville
Mark Lyttle (54-34)	Minnesota	S. Florida	VA-Common	George Wash	NC-Charlotte	Old Dominion	Marquette	S. Carolina	Indiana	Ohio State	Louisville
Paul Socolow (52-36)	Minnesota	Jacksonville	VA-Common	Rutgers	NC-Charlotte	American	Marquette	Tulane	Indiana	Ohio State	Louisville
Indiana St. at Tulsa	Detroit at Loyolla, Ill	N. Carolina at Georgia Tech	Hawaii at Utah	Colorado St. at Air Force	Fresno St. at UC-Irvine	San Jose St. at CS Fullerton	California at Oregon St.	Arizona at Washington St.	Stanford at Oregon	Utah St. at UNLV	
Scott Kister	Indiana St.	Loyolla, Ill	Georgia Tech	Hawaii	Colorado St.	UC-Irvine	CS Fullerton	Oregon St.	Arizona	Stanford	UNLV
Mark Lyttle	Tulsa	Detroit	Georgia Tech	Hawaii	Colorado St.	UC-Irvine	San Jose St.	Oregon St.	Arizona	Stanford	UNLV
Paul Socolow	Indiana St.	Loyolla, Ill	North Carolina	Utah	Colorado St.	Fresno St.	CS Fullerton	Oregon St.	Arizona	Oregon	UNLV

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