

Two Guys with their fingers around the throats of the campus.

# THE CALIFORNIA TECH



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May 10, 1991

## Students Protest Lack of Housing

by Jo Ignatowicz

Caltech woke up this past Monday morning to discover that 24 students had taken up residence on the Olive Walk. The new community, Shantytown, is a student response to the housing situation at Caltech. The goal of the undergraduates is to increase awareness of current housing difficulties, and to prompt people to discuss ideas and solutions.

A group of Blacker students initiated the building on Sunday night. Students from other houses joined in after reading the statement of Shantytown's purpose. Most of the houses are represented, and the population as of Wednesday had grown to more than thirty students.

The new town has a loose social organization. Walker Aumann has been designated unofficial "mayor" by virtue of daily wake-up calls, and Bevan Bennett has become "public works director." Sheriff Gary Olsen has the task of "cleaning up" the town.

All of the shanties have been constructed by the students, and in the process they have learned a few practical tips on building. The most popular construction materials are cardboard boxes, pallets, black plastic sheeting, and duct tape. As a side note, duct tape will lose its stickiness in direct sunlight. Other

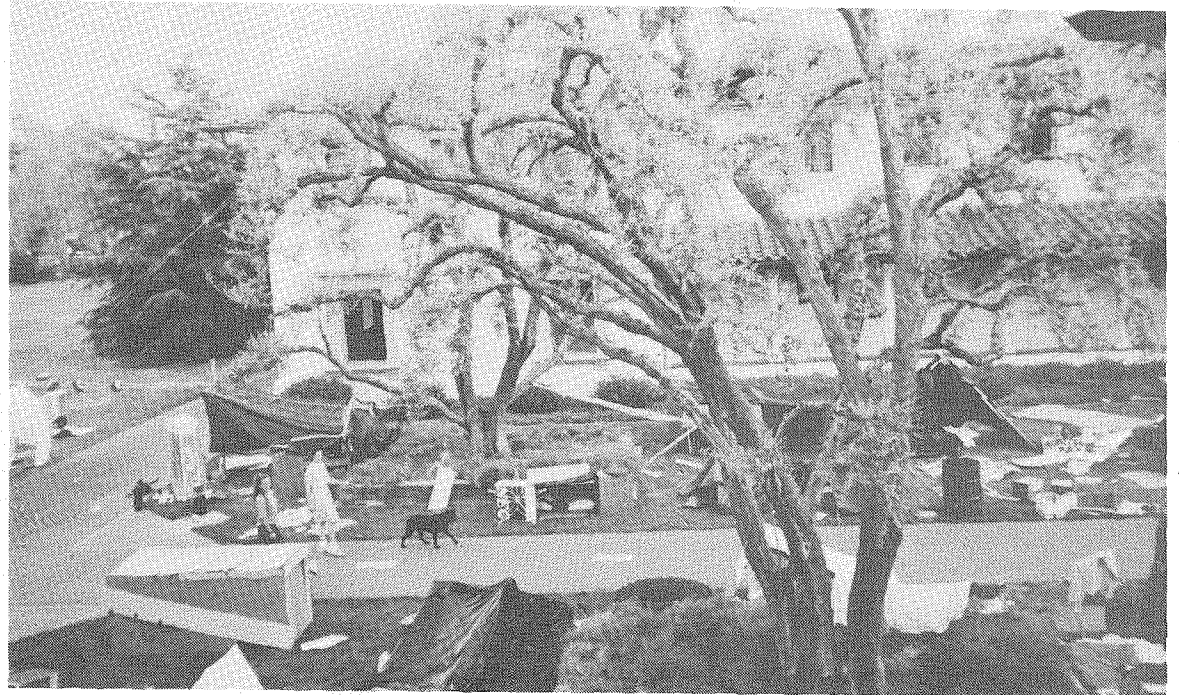
innovative construction materials are a shopping cart, old homework assignments and bluebooks, Domino's pizza boxes for the "Pizza Hut", and one "Caltech celebrates 100 years" centennial banner.

Although the weather and the sprinkler system have been cooperating, there have been other minor disasters. Deepi Brar's hut, "Montego Bay," has fallen down twice, once while she was inside it.

Sophomore Rich Benzinger experimented with living in a tree. After stringing up a hammock nearly twelve feet off the ground, he decided that the risks outweighed the benefits, and constructed a more stable home on terra firma.

Despite its rustic appearance, a few of the residences in Shantytown have many unexpected luxuries. Several freshmen have done their phys labs there, seeking advice from Dr. Pine as he strolled by on the Olive Walk. Other places have lighting and stereo systems, and one even has a refrigerator and a hibachi.

The student statement explains why they're there, but how long will they stay? "How long does it take to get housing?" answered Walker. "We don't want a pat on the head; we want to know that something will be done."



The residents of Shantytown, protesting the housing crunch, have occupied the east end of the Olive Walk since Monday.

[This statement of purpose was posted in Shantytown.]

In case you're wondering... (Disclaimer: This protest is, we feel, a natural and necessary response to an unacceptable situation facing us on campus at this time. Please understand that we are not trying to cause unneeded tension or difficulties between the administration and the students. Nor are we playing a practical joke on anyone. We are very serious about our concerns, and we wish to be taken seriously. Above all, we want our opinions to be heard.)

For the past few years, Caltech has made several changes in poli-

cy that have detrimentally affected the housing situation both on and off campus. The change we consider crucial is the removal of off-campus housing, especially house-affiliated housing. We feel that this change is both unacceptable and unreasonable, and want it to be corrected. That is, we wish to see more off-campus housing provided and house-affiliated facilities replaced.

We are extremely alarmed by the fact that the number of students attending Caltech next year will probably exceed the total number of rooms available. The disparity between students and rooms is even greater than past years, even though the number of students leaving Caltech over the summer shows no indication of rising. This leads to the conclusion that some of the students will be forced to provide their own housing next year. Though housing is not technically guaranteed for all undergraduates, that fact has been taken as an unwritten promise between the students and the administration

for years. To suddenly remove that guarantee without consulting students on the decision is extremely inconsiderate, as well as a violation of the Honor Code.

Most importantly, we are deeply concerned by the housing department's apparent disregard for the student body's opinions on such an important issue. Our housing is very crucial to us, and we wish to have a voice in any decisions being made about it. Instead of resorting to demonstrations such as this, we would rather play a more official role in the housing department, perhaps by having students on some sort of advisory board with administration officials. We are entirely willing to help solve the communication problem which seems to exist.

We do not think that our expectations are unreasonable. We care very deeply about the housing situation, and we hope to see the problems resolved. Until that time, however, we stand in protest.

Respectfully,

The Residents of Shantytown

## Watson Lecture on Hubble

by Chris Campo

This week's Watson Lecture, given by Caltech Planetary Science Professor James Westphal, discussed the Hubble Telescope. Westphal gave both a review of early results from the telescope and a preview of what we can expect in the near future from the Hubble.

Westphal noted that although the main reflecting lens of the telescope is flawed, it is possible to perform a deconvolution process on images obtained in its present state to yield images which are vastly improved.

He added that the deconvolution process has as a drawback a reduction in the accuracy with which one can determine the exact number of photons coming from a given astronomical source. Westphal pointed out that it does sharpen images to the point where a great deal of science can be performed using them.

During the talk, the audience was shown a number of slides made from early Hubble images. One set of such images was of the planet Saturn. Westphal told of the history of the images, namely that amateur astronomers in New Mexico had observed a funny splotch on Saturn, and this information had percolated up to the Hubble team.

Although the Hubble was, at the time, going through its paces to iron out engineering problems, the planetary people on the team were granted use of the telescope to look at Saturn for the purpose of inves-

tigating the splotch. The result was the discovery of a global storm system in the planet's equatorial region.

Other science done with the telescope included observations of the planet Jupiter. The quality of the images obtained of that planet, shown to the audience in the form of a number of slides, is at the level of Voyager images of Jupiter taken when the spacecraft was five days from its Jupiter encounter.

One result which came out of the Hubble observations of Jupiter was a glimpse of an occultation of Europa, one of Jupiter's moons, behind the planet. Westphal said this was quite interesting because it enabled scientists to make a much more accurate determination of Europa's exact orbit.

A third result coming out of the early Hubble images was the resolution of areas of the sky which blurred into only a few pixels in ground based observations. The example of increased resolution shown to the audience by Westphal involved a ground based image which showed a blurry configuration of luminous objects.

The problem with the image for researchers, Westphal said, was that they were unable to tell which of these luminous objects were single stars, and which were two or more stars which only looked like single stars because of the poor resolution.

Westphal showed an image taken of the same patch of sky with

the Hubble telescope, and the increase in sharpness was dramatic. Resolution into a large number of single sources was accomplished by using the Space Telescope, a dramatic improvement over the ground based image.

The most dramatic image from the Hubble yet, Westphal claimed, was one of a possible nova, or exploding star, called Beta Carinae. Westphal recounted that this star had "belched" in the 1800's and had grown to be the brightest star in the sky next to Sirius. The Hubble image he showed to the audience of Beta Carinae showed the star surrounded by an expanding cloud of material, perhaps shed as the result of an explosion.

Other results from the Hubble which Westphal discussed and explained with slides of images from the telescope included observation of gravitational lenses and of regions of newly forming stars. Seeing the process of star formation may be particularly informative, as Westphal said that the observation of a collapsing disk in stellar system formation elsewhere may give us clues about the formation of our own solar system.

Once the talk was over, a question and answer session ensued. Many of the questions asked by the audience concerned the future of the telescope. Westphal asserted that a space shuttle mission will be launched to install a new WFPC (Wide Field Planetary Camera -

## CRIME AND INCIDENT BEAT

Crime Tip: Students should be careful about leaving doors and windows open during the hot weather, and not give people passing through campus easy access to any buildings.

- 5/2 A faculty member left his office on fourth floor of Downs Lab for an hour, and his backpack containing books, a calculator and an airline ticket were missing when he returned.
- 5/2 Two suspicious persons were observed walking near Spalding Lab. When questioned, they stated they were looking for a place to sleep. Security advised them that they were on private property and should leave.
- 5/5 Security responded to a call that a palm tree in front of Keck House was on fire. Attempts to extinguish the fire were unsuccessful. Apparently the tree was coated with a flammable substance and set on fire. The fire department was called to extinguish the tree.
- 5/6 Two students returned to their apartment at 1001 E. Villa Avenue and noticed that the screen in a window of the apartment was partially torn. The students noticed a suspicious person walking away from the apartment while they were inspecting the screen.
- 5/7 Pasadena Fire Department units 31, 32, and 33 were dispatched after an all units fire call to the sub-basement of Church. A torch was apparently left burning. It caused a considerable amount of smoke.
- 5/7 Security received a call about a suspicious person in Dabney Hall. The suspect was stopped and questioned and told to leave Caltech private property.
- 5/7 Blacker Annex was nearly washed away due to a curious sprinkler malfunction.
- 5/7 A Caltech staff member's Toyota Corolla was taken from the Tournament Park lot south of the tennis courts. Total value stolen or missing: \$3000

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# Letters

## IW Unacceptable

To the Editors:  
Last week, we reached an all-time low in the California Tech. We got to see an Inside World that was completely devoid of redeeming qualities.

While the Inside Worlds are admittedly often crude to some degree, they serve as a source of news and amusement for the undergraduate community. In general, limits to what it is fair to write about other people are respected.

Last week, however, an uncredited Inside World was submitted which was simply a slanderous, unprovoked attack on the Vice-Presidents of Blacker House, Walker Aumann and Noam Bernstein. It was not funny, nor did it express any opinion or make a statement. It was merely very crude. Offensively so. Yet the person or persons who wrote it live off campus and know little more about Walker and Noam than their names.

The general opinion in Blacker House was that the article did not even merit a reply. I am worried, however, about leaving the rest of the Caltech community with the impression that the actions of the writer or writers of this garbage are in any way sanctioned by other undergraduates.

While I like the concept of Inside Worlds in general, I would like to encourage the editors of the Tech to think twice before publishing anything like this submission. I also want to remind them of their own editorial policy, stated at the top of the Inside World section, that all submissions must include the names of the authors. This was not the first hit-and-run Inside World, but I hope it will be the last.

—Lieven Leroy  
Blacker House, 1-60  
x3762

## Apocalypse NOW for Space Science

To the Editors:  
NASA's enormously successful Space Science program is in grave and immediate danger. Within less than a week, a decision may be made by Congress to cut up to one

BILLION dollars from the space science budget!

This is potentially more than the entire cost of the Voyager mission to the outer planets from inception to the Neptune encounter in 1989, being cut out of the budget in a single year.

Think of all the returns from that mission—fourteen years of exploration of the solar system with flybys of four planets, including two never before observed at close range, and the first detailed look at their many satellites, each a world in its own right—and then consider the loss to our continued exploration capability if the equivalent of the funding for that entire mission is wiped out in a single year.

Because the time to decision is so short, the big national pro-space organizations like the National Space Society or the Planetary Society will be unable to mobilize their members for a letter-writing campaign in time; yet Dick Mallow, the chief staff officer of the House Appropriations Committee, says that the fate of space science funding will be "decided by the political process", i.e. by the volume of mail, faxes, and phone calls received. Thus your letters and calls to Congress are especially important now; if you have ever considered expressing support for the space program, NOW is the time!

NASA's Office of Space Science and Applications is in charge of everything from Earth-observing satellites to orbiting astronomical facilities like the Hubble Space Telescope and the Gamma Ray Observatory to planetary missions like Voyager and Galileo.

Projects in all categories are likely to be cancelled: these include the Earth Observing System, which will greatly expand our understanding of the complex and threatened environment of our home planet; the Advanced X-ray Astronomical Facility and Space InfraRed Telescope Facility, two more Great Observatories to join Hubble and the Gamma Ray Observatory; and the Comet Rendezvous/Asteroid Flyby mission and the Cassini Saturn orbiter and Titan atmosphere probe.

Normally-calm scientists are describing the effects of such a drastic funding cut in apocalyptic

terms: "tantamount to killing off space science", "8.0 on the Richter scale".

Asking Congress to be exempted from budget cuts in tight times like these is very difficult for any government agency; thus a long-standing debate among advocates of space exploration is being exacerbated. Many of us favor both manned and unmanned exploration; others point to the extra capabilities of robotic explorers (we have never sent humans beyond the moon, yet our unmanned spacecraft have visited every planet but Pluto) and the relatively small cost of even expensive robotic missions like Galileo or the Hubble Space Telescope relative to manned missions, and think the main or even exclusive focus of NASA should be on unmanned missions.

But when the budget axe hits the chopping block, such debates take on immediate practical importance: how do we apportion the sacrifices? The Planetary Society, for one, has decided that is not politically practical to prevent a cut of the magnitude described in NASA's overall budget, and is instead focusing its efforts on ensuring that the money is cut from the proposed Space Station Freedom rather than from space science.

The purpose of this letter is not to ask you to second that position—after all, as individuals rather than an advocacy group, we aren't quite so constrained by "political practicality"—but rather to ask that you express your opposition to the imminent end of NASA's space science program (whether or not you couple it with opposition to cuts in the Space Station budget), before it is too late.

The following are the people to whom you should write. All are members of the House or Senate Subcommittee of the Appropriations Committee that is in charge of HUD, the VA, and independent agencies (including NASA).

The most important ones to reach are the first four; they are the chairmen and ranking Republican members on the respective subcommittees. However, if you could write the others, who are California Representatives on the House subcommittee, it would also help; and if you wish to write more peo-

ple, I can give you a list of all members of both the House and Senate VA-HUD-Independent Agencies subcommittees, and also of all members of both full Appropriations committees. Please write or call NOW!

Senate: (addresses are Washington DC 20510; phones & fax are (202) 224-xxxx)

Senator Barbara Mikulski 320 Hart Senate Office Building phone 4654, fax 8858

Senator Jake Garn 505 Dirksen Senate Office Building phone 5444

House: (addresses are Washington DC 20515; phones & fax are (202) 225-xxxx)

Representative Bob Traxler 2366 Rayburn House Office Building phone 2806, fax 3046

Representative Bill Green 2301 Rayburn House Office Building phone 2436, fax 0840

Representative Bill Lowery 2433 Rayburn House Office Building phone 3201, fax 7383

Representative Edward R. Roybal 2211 Rayburn House Office Building phone 6235, fax 1251

Representative Julian C. Dixon 2400 Rayburn House Office Building phone 7084, fax 4091

Representative Vic Fazio 2113 Rayburn House Office Building phone 5716, fax 0354

Representative Nancy Pelosi 109 Cannon House Office Building phone 4965, fax 8259

—Mark D. Looper  
Grad Student, Physics  
304-0006, x6634

## Recycling Urged

To Dr. Everhart and the Faculty Board:

The Caltech Environmental Task Force conducted a survey at lunch last Wednesday. The survey was designed to assess the community's opinion on ways in which Caltech, as an institution, could relate better to the environment. The results of the survey accompany this letter.

If you look at these results, we think you'll agree that the survey shows that Caltech, as a community, strongly supports some active institutional environmentalism—even if it is going to cost some money.

Some departments at Caltech are already providing a fine exam-

ple. We would like to thank physical plant for their initiative and support in the remodeling of the recycling center; we are grateful to the housing office for supporting increased recycling in on-campus housing; and we are glad that the administration has finally started to install water conserving devices around the campus.

But as an institution, Caltech is dragging its collective feet. This tendency is natural, but it is not a foregone and inviolable tendency. Things can change, it just takes commitment. We believe that Caltech, a far-sighted leader in so many ways, should make this commitment.

Hence we invite the administration to respond specifically to each of the items in this survey. Please, we do not want a quick, generic reply leading to few lasting changes. We would like a response which makes clear what the administration thinks of the community's wishes, and what actual action will be taken. Thank you.

We would also like to suggest that the administration establish a new full-time post of 'Environmental advocate.' This person would ensure that the administration is aware of community opinion on environmental issues, and would coordinate on-campus recycling; he/she would coordinate the information-gathering necessary for finding the optimal solutions to

## THE CALIFORNIA TECH

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# Tonight and Tomorrow!



## STAR WARS RETURN OF THE JEDI

Baxter Lecture Hall \$1.50 & \$2.00

Go see two, and watch the third one free!

Different Times

Friday, May 10 : 7:30, 9:50 and 12:15

Saturday, May 11 : 3:00, 5:20 and 7:45

(We're on a tight schedule - please be on time.)

## APPLY TO GRADUATE SCHOOL

A Workshop

Thursday, May 16

7:30 p.m. • Room 15 SAC



- choosing graduate programs
- filling out applications
- getting good letters of recommendation
- writing an effective personal statement

CAREER DEVELOPMENT CENTER

08 Parsons-Gates Hall, x6361

# Letters

## Recycling Letter

from page 2  
Caltech's environmental questions, and would actively organize the establishment of new environmental programs.

We expect that such an em-

# Caltech Lunchtime Recycling Survey

by David MacKay

We approached a more-or-less random collection of people around campus during lunch hour on Wednesday, May 8. Possible respondents were asked whether they had a few minutes to answer a questionnaire on environmental issues at Caltech. About ninety percent actually took the poll. Thank you to those people!

110 students, 40 staff, and 33 faculty answered our survey. The responses within each of the three groups were not significantly different (i.e. within one standard error), except as noted below. Here are the exact questions and the overall results, with 3% margin of error.

1) Do you think recycling should be more part of the system at Caltech? (e.g. Custodial staff emptying the yellow bins around campus once per week, or a full-time recycling coordinator coordinating a group of work-study students.)

Yes: 87% No: 9% Don't know: 4%

2) All of Caltech's lawn-cuttings and tree prunings are hauled away and put in landfills. Do you think composting should be used instead?

Yes: 83% No: 5% Don't know: 12%

3) Do you think the use of recycled paper in xerox machines and laser writers around campus should be either mandated or subsidized? (Graphic arts have approved a brand of recycled paper for use on all ordinary machines around campus. It is currently 0.2c per sheet more expensive, a 10% increase in

ployee could rapidly pay for him/herself; for example, a 20% reduction in the amount of trash hauled away to landfills would save Caltech about \$22,000 per year.

Yours,  
David MacKay, Tobi Delbruck,  
and C.E.T.F.

overall cost.)  
Yes: 83% No: 9% Don't know: 8%

4) Do you think Caltech should incorporate solar heating into future building projects, even if the use of gas or electricity is thought to be more economical?

Yes: 66% No: 19% Don't know: 15%

5) Caltech puts tens of thousands per year into the mail system. Do you think that Caltech should also invest in a campus-wide electronic communication network?

Yes: 75% No: 18% Don't know: 8%

6) Would you like to see more xeriscaping at Caltech? (That is, gardens planted with natural desert vegetation requiring minimal watering.)

Yes: 81% No: 14% Don't know: 5%

7) Among Caltech's full-time employees, the average number of people per car driven to Caltech each day is about 1.36. Do you think the administration should more actively promote the establishment of van pools and bicycle facilities, etc.?

Yes: 87% No: 9% Don't know: 4%

The percentage of faculty in favor of this question was significantly lower, 63 +/- 7%, perhaps because it is their money that would have to cover the 10% increase. This percentage was significantly lowered by a fraction of the undergrad population who were apparently not interested in campus-wide e-mail.

Staff were more in favor (92 +/- 6%) of xeriscaping than other respondents.

# Scintillating Commuter News

by Becky Campos

It is really encouraging to see the interest and hear the concerns of the Caltech Community regarding the trip reduction plan. In a short time, the awareness of the need for personal commitment to take an active role in reducing air pollution has greatly increased. As our TRP progresses, you will see more new and creative approaches to encouraging the use of alternate modes of transportation.

One of the newest programs is Caltech's participation in the City of Pasadena's Bike-to-Work Week, May 19 to May 23, 1991. The National Bike-to-Work Day is Tuesday, May 21. The primary goals of the activities are to: (1) build awareness of the economical, environmental, and health advantages of bicycle commuting, (2) increase the number of bicycle commuters in the Pasadena area, and (3) establish better facilities for bicyclists at work, schools and in public places.

We will be hosting a Bike Fair on campus on Monday, May 20, from 11:30 AM to 2:00 PM on the south side of Winnett Center. Representatives from various or-

ganizations that promote commuting by bicycle will be there to discuss their services and to display their products. One of the highlights will be a drawing for a GT Passage bicycle.

For every day that you commute to work by bicycle during Bike-to-Work Week, a ticket bearing your name will be deposited in the drawing box. On Friday, May 24, the winning ticket will be drawn. To enter the drawing activity, attend the Bike Fair to receive your participation kit. More information about the Bike Fair is forthcoming.

Another new incentive program to be implemented during the next trip reduction plan year is the "Infrequent Driver Program." This incentive will provide an opportunity for employees to earn credits toward additional vacation time when they commute by any mode other than driving alone, as defined by the SCAQMD Regulation XV. The idea for this incentive program was suggested by Caltech employees.

We continue to welcome input from the Caltech Community. We,

along with other employers, are still in the ground-breaking phase of this new transportation management field, which does involve some trial and error. By working together, we can continue to develop a TRP that will achieve positive results.

## Math Prizes Awarded

Michael Maxwell and Christopher Raymond have been chosen as this year's winners of the Fredrick J. Ziegler Memorial Award. Michael is a junior majoring in mathematics and Christopher is a junior majoring in applied mathematics.

This award was established in 1989 to honor Fredrick J. Ziegler, a member of the class of 1976 and an applied mathematics major. The award is given to a pure or applied mathematics student in the sophomore of junior year who has shown excellence in scholarship as demonstrated in class activities or in preparation of an original paper or essay in any subject area.

# Uninteresting News of the Y

Quick! Look at the clock! Is it noon yet? Get out and listen to the Noon concert sponsored by the friendly Y types at the Y. "Firefly" is playing, so get out there!

**BROOMBALL! BROOMBALL! BROOMBALL! BROOMBALL!**

Team entry deadline: Tuesday, May 14. Fun starts at 11 PM, Saturday, May 18.

The first undergrad Student/Faculty conference in many years will be held this Monday afternoon and evening in Ramo. If you care at all about academic issues or social issues or the Honor System, come and let your voice be heard. Sponsored by the Dean's, ASCIT and the Y.

FOCUS (Friendship to Overseas College & University Students) is sponsoring a Square Dance on Friday, May 10, from 7:30 to 10:30 PM. The location is Morrison Hall at Westminster

Pres. Church, 1757 N. Lake Ave., Pasadena. For more information, call Jean at 398-0145.

Does dancing interest you? The Y is sponsoring FREE ballroom dancing lessons every Thursday night in Winnett Clubroom #1 (above the bookstore) thru June 6, 1991. The fun begins at 7:00 PM for beginners, 8:00 PM for intermediate dancers and then join everyone for "The Simpsons" on tape at 9:00 PM.

Tonight at 8:00 PM join Jessica Madow and Rick Wilson for an evening of Baroque and late classical music for flute and keyboard. This free concert will be held in Dabney Lounge. More music is

available with the purchase of a Y sponsored ticket to a special college night with the LA Philharmonic, 8:00 PM Saturday, May 11 at the Wiltern. Only \$3.00! The program will include Strauss' Don Juan and Stravinsky's Firebird Suite.

If you are interested in getting to know your professors better, the Y has money available for faculty-student dinners - \$25.00 for each student-faculty pair. Apply in Brian's office at the Y. An then go out and eat up!

Remember, the Y has discount tickets to the Renaissance Pleasure Faire. It runs every weekend until June 9, 1991. Don't miss this spectacular event.

• A KALEIDOSCOPE OF ENTERTAINMENT

**CALTECH public events**

**MASTERS OF MAGIC AND MYSTERY**

— A Periwinkle Production —  
starring Chuck Jones & Co. and Tom-Ogden

**Saturday, May 11 / 2 p.m.**

Beckman Auditorium  
\$7.50 Adults; \$3.75 Children

Call campus extension 4652 for information.

**THIS IS IT!**

**THE INVENTORY REDUCTION SALE**

**WINDS DOWN**

**THIS WEEKEND**

**COMPLETE MECHANICAL AND AUTO BODY REPAIR AVAILABLE**

Oil Change \$13<sup>65</sup> Transmission Service \$26<sup>65</sup>  
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**10% DISCOUNT TO CALTECH COMMUNITY**

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4 blocks east of Lake—at Mar Vista Mon-Fri 8-5, Sat 9-12

10% OFF TO CALTECH PERSONNEL SHOWING ID

**\$30<sup>00</sup>**

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**SHOW MOM HOW MUCH YOU CARE WITH FLOWERS**

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**PASADENA SCIENTIFIC & TECHNICAL BOOKS**

Lloyd

Skip's Guide to Grad School

May, Junior Year: You get up early one sunny, warm, spring day to head to the beach. Towel and beach chair equipped, you head out to your car, only to run into a group of determined looking members of your class. You ask where they're going, to which they reply, "GRE's". You dimly remember hearing about those tests you need to take. Already? Whoops.

June, Junior Year: You go to the CDC one day and pick up a GRE handbook. You also go to the bookstore and buy \$50 worth of GRE preparation books which you plan to read over the summer. You then go home and spend three hours filling in bubbles and writing a check for \$70 to take the test in October.

October, Senior Year: Two weeks before the test you find your \$50 in GRE preparation books and you open them. You realize you are in big trouble. During the 8 hours of exam, you realize that not only are you in big trouble, you only have time to take the test once. You begin to regret those physics "help" sessions.

December, Senior Year: All those other seniors asking you what grad schools you applied to begins to sink in. You return to the CDC to find out which schools offer your major. After writing down the address of both of them, you kindly ask the head of the department for an application. They soon arrive, with kind letters thanking you for your interest.

Christmas Eve, Senior Year: Having nothing else to do, you begin to fill out 100 pages of applications. What you don't know, you make up. The application which asks for the author and title of every textbook you ever used you throw away. You make up something called a Statement of Purpose (what?) as you go along. You write out \$200 in checks.

January, Senior Year: You bring your various applications to the Registrar's office with a pitiful look. Lisa takes them all. A week later you return to find several neat envelopes, addressed and stamped. You bless her and her ancestors. You then realize you need recommendations too. Obviously any professor who you've had for more than one class is in there. Now for two more... Finally you convince two total strangers with "Dr." in front of their names to write something about you. You hope it's good.

February, Senior Year: Mysterious postcards appear in your mailbox, stating the progress of your applications. One says it is complete and you will be notified in March or April. Most say they are missing some vital document which you sent them a month ago. You send new copies of everything to everybody after getting them blessed by a priest. One letter returns to you with a Post-It note attached stating they have never heard of you (or your \$50).

March, Senior Year: Everyone of your friends has gotten into every school they applied to. They are being offered thousands of dollars if they would please condescend to consider this school. They are flying all around the country to get wine and dine and all you have are postcards. You find a letter from a grad school addressed to you in the outbox. You wonder how many others have been there. You begin to read those job interview notices.

April, Senior Year: Letters of acceptance and denial begin to arrive. They get posted on your wall, only to get destroyed in the shower war. The schools promise a decision on financial aid a week before the letter arrived. You begin to call them: "Jeff? Jeff who?" "No, we have no aid to offer this year." "Try Moe in physical plant." "We don't have any department by that name." "You want what? Hey Mary, listen to this" You discover the deadline for financial aid was a month ago.

May, Senior Year: A lowly thin letter arrives from a school. You open it and begin to read. "Mr. Hagen, we are pleased to offer you a paying position..." The heavens open and the sound of angels fills your ears. With the unearthly glow of divine light upon you, you realize that you may have a life after all. You get an acceptance letter from a school which arrives two weeks after their decision deadline.

September, 1st Year Grad: ????

# The Inside World

Inside World Policy:

All Inside Worlds must include the author's name. Inside worlds can only be written by current undergraduates. The editors reserve the right to edit any or all parts of an Inside World, or to not print it at all. No libelous material will be accepted. It is the author's responsibility to check material written about a person to see if they consider it libelous.

This Week's **Inside World** was written by:

Lloyd: Jeff Hagen  
Ruddock: Chris Martin

Blacker	12	4	0	0	0	1	1	0	2
Dabney	11	2	0	0	0	2	0	0	2
Fleming	13	1	0	0	0	0	0	0	0
Lloyd	26	15	2	1	0	3	0	2	8
Page	21	3	1	3	0	0	0	0	4
Ruddock	25	18	3	2	0	4	2	1	12
Ricketts	15	9	0	4	0	0	0	0	4

Ruddock

Hell, you Rudds, I don't mean to complain or nothing. But the other day I was laying there asleep in my room at 8 in the morning, when some idiots start banging on my door. There was some sort of a herd of people all making whooping sounds and running up and down the halls. I didn't know what the hell was going on. I later found out that it was the seniors idea of a joke or tradition or something. What were you people, raised in a barn? Do you guys think we live in the zoo? You're acting like we're a bunch of crazy college kids!

Hey, wait a minute, we are a bunch of crazy college kids. Damn, I almost forgot. So many people in Ruddock lately have been acting like we're a military academy, or a monastery, or the State Legislature, or the Supreme Court. Well, maybe we'll have the misfortune to be one of those things later in life, but right now we're lucky enough to be a free-wheeling house full of young adults. So we better act like it and not miss our chance.

So the next time someone goes banging on your door at 8 AM or tapping underwear to the wall or tearing up paintings or singing in slurred Spanish at 3 in the morning, you've got your right to any opinion of it you like. But try to relax and remember who and where you are, (a college student in a dorm/frat/sorority), and to have some fun while you've got the chance, dammit!

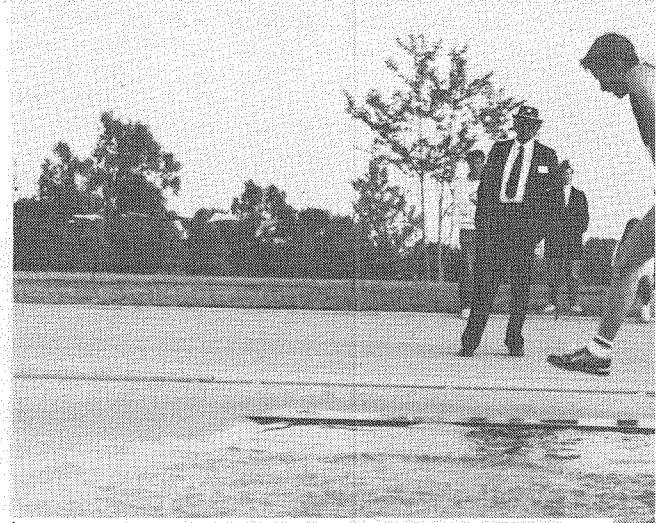
Speaking of stupid things that college kids do, I'm planning on continuing a tradition that skipped a beat last year. That sloshed celebration, that party of puke, the Ruddock

House Drinkoff! (Under new DAPAC rules, you must be 21 or older to participate, this is not a house sponsored activity, thank you) More details will be coming to a BFD near you. All that other stuff that the comptroller used to do, I'm glad to see, is being picked up by other members of the house. It just goes to show you that Rudds can do good stuff for the house without the constitution forcing them to. The only way to ensure that people do stuff is to consistently bother them when stuff doesn't get done right. For example: Where the hell was the BFD last Friday! I realize that Graphic Arts is practically on the other side of campus and that the BFD is so highly esteemed you run the risk of being attacked by members of The New York Times Book Review team when you carry it back to Ruddock, but I'm sure some members of Ruddock's highly trained, mentally deficient, Wet Dream Water Assault Team would have given you an escort. Or: What the hell is this bullshit about penny dumping in O'Doms! In the old days, we used to put pennies, pesos, pocket lint, dead bugs, and Ding-Dongs in the money box, and Dave liked it that way! How about this for a deal? Every week you guys don't restock O'Doms, you wake up with a dead fish hidden somewhere in your room. Weather's gettin' awfully warm! And why don't you buy more orange juice and real apple juice and less sparkling pooch piss? Maybe you think we let it sit there so long cause we're saving it for a special occasion? No way, Jose.

We Juniors took our class picture the other day at Huntington Gardens. We posed, like the Roman gods we are, in togas with the rows of Greek statues. But the Huntington guards, I think their names are Rufus and Edna, don't exactly appreciate toga parties. So we all grew beer bellies for the time it took to get the sheets in. Then you should have seen the other patrons' faces when we all started to strip down on the lawn. I was kinda hoping we could lead the security guards on a chase through the gardens and museum in our togas, but it just didn't happen. For the first time, Caltech had a faster security response than someone else. Caltech security showed up in about two minutes last week when we cranked up "Beers, Steers, and Queers" on PCDE. They said they would have to call the MOSH if the noise continued. I guess they don't read the Tech, huh.

We better study the Frosh picture, cause that's the last we'll see of most of them. All of 'em are going to have to find somewhere else to live. Of course, Amy and Michelin have a simple solution to the whole problem. They're going to buy a giant Raid Frosh Fogger and set it off in 1.5. The deadly fumes will creep into every nook and cranny of the computer room, library, and PGR, killing them where they live! Then we'll be rid of the pests for good. I see it as an upgrade of the Frosh Motel which was in Jo and Nina's room at the start of the term.

Lighten up, Rudds, and keep your lives interesting.



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# Bush Comes To Tech

by Ali Mortazavi

George Bush, the current president of the United States, is scheduled to come deliver the commencement speech on Friday, June 14th, at the 1991 Caltech Graduation.

Due to the expected large increase in attendance (e.g. the press corp, guests, and people from Pasadena), the ceremony will be held on the north athletic field (with an estimated capacity of 12,000) rather than at its traditional location in the Court of Man (capacity 4,000). It is thus hoped that all the members of the Caltech community will be able to attend this special occasion in this centennial year.

President Bush delivers four to

# Caltech Heptathlon

This Sunday, May 12 at noon on the Caltech track, the first Caltech Heptathlon will be held to determine who the studliest men and women at Caltech are. The track team will be staging the event, but everyone is encouraged to participate.

The heptathlon events include the 200m and 800m runs, 110 hurdles, high jump, long jump, shot put and javelin. Women's heights and implements will be used for the hurdles and the shot put.

# Sports Day Triathlon

Sunday, May 19 is Caltech SPORTS DAY. While most of the activities begin at noon, the SPORTS DAY TRIATHLON starts at 9:30 AM at the Caltech Track. The race consists of a two mile run through the streets of San Marino, an eight mile cycling leg, also through San Marino, and a 200 yard swim in the Caltech Pool.

The event is free of charge, and is open to all Caltech undergrads, grads, staff, faculty, JPL'ers and their friends. There will be free oranges, bagels and water at the race. The course will be clearly

five graduation speeches annually, and has used these occasions in the past to speak on national matters and policies; his speech will likely dwell on the importance of science and technology to national welfare.

The honor of a presidential speech does come with a few strings attached. He may have to cancel at any time due to domestic or international emergencies. He will also be surrounded by the secret service, which may impose security precautions that Caltech is unaccustomed to, such as maybe closing Millikan for some time. They will also show a distinct lack of humor.

In any case, do not miss this historic event in the history of Caltech!

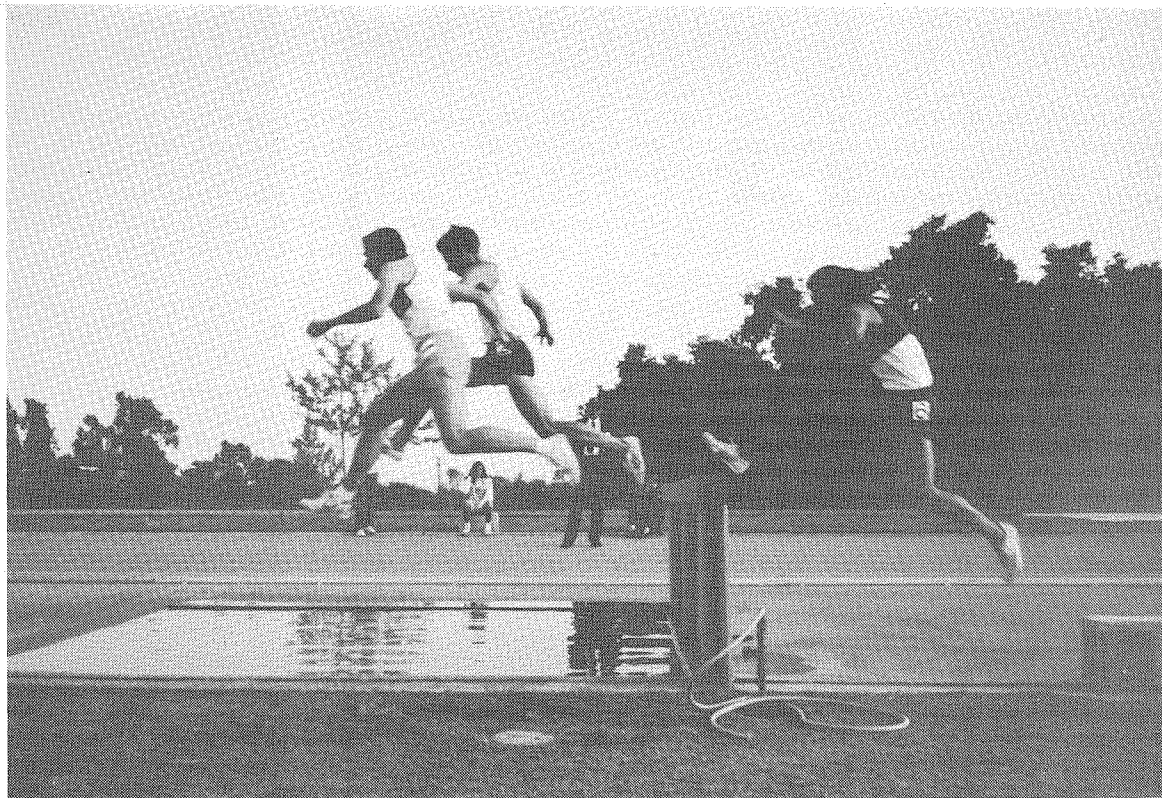
Scoring will be done using official NCAA tables correlating performances in an event to a numerical score. Participants can see how close they can come to Jackie Joyner's record.

Many questions should be answered by this event. Who will win among the undergrads? Greg Dudey? Gary Eastvedt? Will William Glenn take Ned down in the hurdles? Will William break the high jump bar? Come see these questions answered for yourself.

marked and it should be a fun event. Whether you have a beach cruiser, a mountain bike, or a Kestrel, we encourage you to come and compete! RELAYS ARE WELCOME!

For more information, stop by the MOSH's office and talk to Sue Berkley, or call Chris Campo at 449-4626. We encourage you to arrive early so you can get a good spot in the transition area for your bike (first come first serve!) and so we can start the race on time (before it gets too hot!)

If you arrive before 9 AM, you will be able to watch the end of KELROF on the Caltech Track. (KELROF is a 24 hour relay race which starts on Saturday, May 18, at 9 am. Contact Delwyn Gilmore of Ruddock House for details.)



The three leaders of the steeplechase clear the water jump at the SCIAAC Track Championship, exhibiting excellent form.

photo by Chris Campo

# Hubble Telescope

from page 1

pronounced "wiff-pik") in the telescope with corrective optics. The new WFPC, Westphal said, will correct most of the problems caused by the deficiency in the reflecting mirror of the telescope.

The spectrographs on the telescope will suffer, he explained, because the corrective optics will have as a price a reduction in total number of photons received. The mission to install the corrective optics will take place two to four years from now, "depending on your level of pessimism," Westphal

told the audience.

For the near future, until the corrective optics are installed, Westphal said that the focus of the telescope will be on using its spectrographs rather than on producing images. The spectrographs can be used, among other things, for the detection of massive black holes at the centers of galaxies.

Westphal ended his remarks for the evening by expressing expectations for a great deal of good science to come out of using the telescope. "We'll have plenty of things to look at. Nature just isn't that simple. If she were, we'd all be out of business!"

# Track

from page 8

Dave Park, the top-40 music dancer extraordinaire danced on down the long jump straightaway to land 19 feet, 11 inches from where he left the ground - good for 9th place. Gary Eastvedt, high placing finisher in the Decompression Roommate Game last term, was a mere inch and a half behind Park. Gary finished 10th.

A small group of athletes will be competing for Caltech in the Oxy Invitational Meet this Saturday Evening at Occidental College. While this is admirable, the REAL action will be going on at the First Annual Caltech Heptathlon, to be held Sunday, at noon, on the track. A number of world class performers, including Ned Bowden, William Glenn, Scott Kister, the nefarious Mark Lyttle, Greg Dudey, Professor John Doyle and others, will be participating. Ned's prognostication: "I will crush William Glenn!" William's reply, "Yeah, right." Come and see the Clash of the Titans on the track and field at high noon Sunday.

# Caltech Golf Squad

Golf team? At Caltech! Would you believe Dong-su Kim (captain), Suresh Shanmugam, Sabeer Bhatia, Barry Stipe, Mike Pottenger, Matt Paduano, John Krowas, Craig Smith, Max Heitzmann, Brian Kjerulf, Derek Surka, and Julian Jamison?

Would you believe better team scores than have been accomplished in the last thirteen years. And this from a team with five rookies in the six scoring positions.

Well, believe it because it be the truth.

To cap this return to respectability Dong-su was awarded by his conference peers the coveted Jessie Clark Memorial Award for excellence in play and sportsmanship. A wonderful year and the beginning of an excellent program for many years to come.

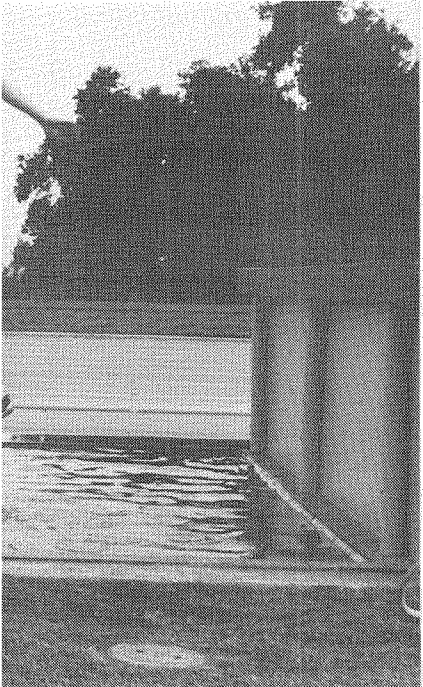


photo by Chris Campo

The last place Claremont runner shows how not to clear the water jump in the steeplechase during the same race as pictured above.

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## Soccer

from page 8

Geubelle, patrolling the interface between his defense and his goalie, checking for any cracks to patch, and subjecting the enemy lines to some catastrophic instabilities.

Also, the blazing enemy offense was easily extinguished by stopper Michael Keating who, as hot as a raging flame, was able to neutralize the opponent's firing line.

To put a final blow to Aston Villa's attacks was Todd Small who would collect every ball in its event horizon, and send them back a few parsecs away. He would overrun every attacking player as if driven by a need to run to the border for a couple of tacos.

At halftime, coach Bill Girdner, who had been judging the game performance from the sideline, provided comfort to his sheep. His surrealistically optimistic words would have appeased even a murderer in a court of law. For no fees, he provided some useful pieces of advice, and encouraged the need for a dominance in the air.

After the Caltech herd returned to the field, it immediately complied with the wisdom of its coach.

John Josephson, the team's CPU (Complaining Power Unit),

started hanging in the air like a floating number, charging like a RAM and getting a BYTE out of each play. He applied his physique against every opponent, and showed the crowd he had talent to sell.

Fighting for air control was also Mark Drinkwater who would consistently leave his opponent frozen on the ground. From the heights where he spent most of the game, he would examine the depth of Aston Villa's melting midfield, and would from time to time engage in breaking the ice solid barrier erected by the enemy defense.

After twenty minutes of play, Caltech's striker Art Del Castillo, who had been polishing and finishing every play in the past games, took the responsibility of taking a free kick from the left wing, just outside Aston Villa's box. With a telescopic eye, he detected an opening through the clouds of the defense, and fired. The ball whizzed past the goalie, and it would probably have reached a geosynchronous orbit if it had not been stopped by the goal net.

The crowd exploded. The referee ratified the goal with a ceremonial gesture, to which prosecutor Bill Girdner responded with a trial-winning attitude by

jumping up and down.

Caltech was ahead 2-1.

The Aston Villa players tried to regain their momentum, but their efforts were no match for the religious, war-like style of Pádraic Smyth who would regularly confront the enemy with all four of his limbs. Pádraic Smyth almost asserted the Beaver's position with a scoring opportunity towards the end of the game. On a cross from the right wing, he managed to control the ball, and, without a decision tree design, he fired. The Aston Villa goalie blocked the shot.

At the opposite end of the field, Caltech's goalie Petros Koumoutsakos was making use of his orthodox (sic) methods to repel enemy strikes. With his cyclonic moves, he was able in several occasions to control the unsteady motion of the balls flying towards him. In brief, the Aston Villa strikers learned very quickly not to approach the vortical atmosphere surrounding the Beaver goalie.

At the closing minutes of the game, captain Flavio Noca flew down the wing to cross the ball towards the middle where again the Beavers failed to bury the opponent once and for all. Instead, a few seconds later, Noca was elbowed in

the face during a turbulent play. His laminar profile thus affected, he crashed to the ground, and had to be taken off the field, with his mustache impregnated with a viscous, incompressible, red liquid.

Christian Noiroux replaced him, and despite his injured ankle, took the opportunity to display a few tricks and sell them to an admiring crowd. He spent the rest of the game riding on a carpet through the enemy lines, but at the end of the game he was disappointed for

not being able to exchange some words and cards with the referee.

Finally... Tweet... Tweet... Tweeeeee!

Caltech is the new Champion! The fans get wild, Coach Bill Girdner loses his pants, the trophies are distributed, pictures are taken, Petros and Mark take a celebration lap.

The soccer season is over. Thank you fans, thank you Bill, thank you Tech, and thank you all players for being part of the Caltech Soccer Club.

## Glee Club Bake Sale

This Monday, in Ramo auditorium, the 1991 Student/Faculty Conference will take place. It will run from 1:00 pm to about 9:00 pm. Everyone is welcome and we'd like as many people as possible to come. The time will be distributed as follows:

1:00 - 3:00 PM Honor system

3:00 - 3:30 PM Break

3:30 - 5:30 PM Academics

5:30 - 7:00 PM Dinner

7:00 - 9:00 PM Quality of Life

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Honor System Committee - introduction and procedural matters, applying the Honor System to

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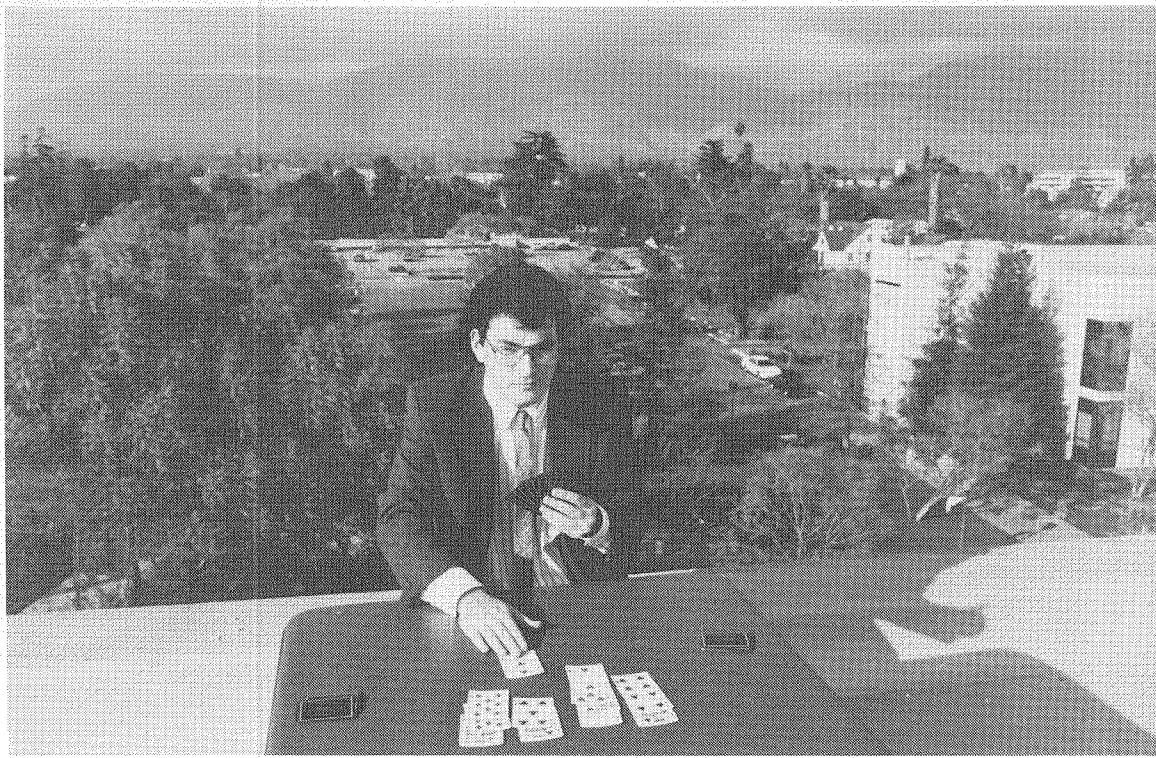
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# what goes on



Sam Dinkin leads out of turn from the dummy in front of WLoAP.

## Sam Dinkin's Bridge Editorial

by Sam Dinkin

- ♠ AT8
- ♥ Q7
- ♦ J932
- ♣ QT96
- ♠ Q542
- ♥ T843
- ♦ A5
- ♣ A72
- ♠ K93
- ♥ K96
- ♦ Q764
- ♣ J84
- ♠ J76
- ♥ AJ52
- ♦ KT8
- ♣ K53
- Vul: None

South West North East  
 1♣ Pass 1NT Pass  
 Pass 2♣ 2NT Pass  
 Pass Pass

\*Conventional takeout bid  
 Opening lead: 4♦

Next Friday, May 17, in Dabney Hall, at 8:00 PM is the special alumni game. Everyone is invited, especially faculty, students and staff. Trade stories with alums from the days of the interhouse bridge tournament.

The first (sic) thing I want to do is make a correction from last week. (I am only going to make one correction. Most of my columns have little basis in reality and many are complete fabrications, so correcting all of the errors would take many times more space than the original article.)

Commencement will not be taking place on the Court of Man. We ironically get to see running man, GHWB, on the athletic field. With

the President short of breath, everyone is looking forward to hear Dan Quayle speak at commencement, but this is not to be. First, the President has a clean bill of health. Second, the backup speaker is Science Advisor Romly, not athletes mouth.

Instead of receiving the Science Advisor, Caltech should send another Science Advisor to DC. In 1969, we did just that; Caltech President, Lee DuBridge became Science Advisor.

Even though Caltech does not pay Big G an honorarium, we get to pay for his speech in kind. In order to see or attend commencement at ten in the morning on flag day, one must show up two hours in advance. I am told that the DRL budget has been increased because of the event to take care of bailing out deviant Techers who annoy the secret service.

The secret service is going to have the caps and gowns under lock and key so no one can sew anything into the lining. Every lining has a silver cloud, and in this case since the ceremony will be held on the athletic field, all the graduating students will probably be able to have as many guests and relatives as they can bear.

In the above picture, your guru is playing matchpoints in the recent roof tournament. East and west on todays hand are clueful freshmen. The tough decision on todays deal came in the bidding.

When west heard the bidding go one club on his right, one no trump on his left and pass on his right, he knew his opponents were comfortable. One thing you do not want at your table is comfortable opponents, so west threw a spanner into the auction. West was following John Mohans advice to balance. If the opponents are in one no trump, the best you can hope for is four matchpoints out of twelve.

The last thing west wanted was for his side to play the contract, but if he could make the opponents uncomfortable, he may get a good result. Ask yourself if declarer looks comfortable in the picture above.

The opening lead of the four of diamonds went to eight, ace and deuce. West switched to the deuce of spades which went to the eight king and six. Spades were continued to the seven four and ten. The jack of diamonds is finessed and holds. A small club is called played to the four, king and deuce (!).

North finessed the ten of clubs, losing to the jack. East knocked out the last spade. North was stuck with no entry to his hand to cash the last club and eventually went down one.

(Solution to last weeks acronym, DEBMDHoHaSS: Donald E. Baxter, M. D., Hall of Humanities and Social Sciences)

## Colored Containers on the Move

Fourty colored Rubbermaid containers for the recycling of aluminum cans, soda bottles, glass, newspaper, white paper, and colored paper will find their way to the houses and dorms on campus (Olive Walk and Holliston).

They'll be provided with proper signs and secured with locks and chains today (May 10th) before they go to their final destination. If you feel like helping with the "art-work," even for just a short while, you're welcome; we'll be in the Coffeehouse courtyard in the South Complex from 10 AM until the work is done.

As many of you know, the houses have been recycling already for quite a while, though not very coordinated and often in difficult circumstances. The newly installed bins, an initiative of the Caltech Environmental Task Force (CETF) and supported by the IHC and GSC, will hopefully improve conditions and environmental efforts.

They have been financed by the Housing Office; the condition for financial support is that the bins and their content be taken care of by student volunteers. Given the relative enthusiasm among students, that should not be too much

of a burden.

Contact your house representative for your support, or just make full use of them next time you're about to throw something in the garbage can. Your small contribution won't bring about miracles for the environment, but maybe together we can make the difference.

### Scholarship Listings

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

The Society of Women Engineers is offering six scholarships for the 1991-92 Freshman Program and one scholarship for the Reentry Scholarship Program. Applications, including supportive material, must be postmarked by May 15, 1991.

The Desk and Derrick Club of Bakersfield scholarship is granted annually to a resident of Kern County. The application should be submitted in letter form which must include the applicant's major, name of university, outside activities, etc. Special attention will be given to scholastic ability, the level of school and non-school activities and financial need. References from teachers and/or counselors should also be included. Application deadline is August 1, 1991. Applications should be mailed to Jan Walker, Chairman, Desk & Derrick Club Scholarship Committee, P.O. Box 11164, Bakersfield, CA 93389.

If you have any questions, please come by the office or call x6280.

### Don Shepard Essay Contest

Submit your creative, LEGIBLY WRITTEN, and informative essay to the MOSH's office by May 10th so we can read about your dreams and hopes. If you're willing to work a little, you may actually win a sum of money to do them. If you don't try, you'll never know if you could have won. (You can actually win up to \$1000.) So don't miss out, take a chance on something exciting, and get away from Tech for the summer!

### Summer College Work-Study

Information and applications for 1991 summer college work-study are available in the Financial Aid Office. If you are interested, please submit the required application as soon as possible, but no later than May 31, 1991. Your entire financial aid application must be complete by May 31 to be considered. The award determinations will be announced as completed applications are reviewed. If awarded, the work-study funding will begin with the July 8th payroll period.

### SIF Disbursements

The Caltech Student Investment Fund will be giving away money to clubs for the purchases of equipment. Equipment that you want to buy must be of a long term nature. If you are interested, you can obtain an application form from either our Chairman, Chris Assad (x6818) or our Treasurer, Tal Schwartz (578-9652, 228 Page House). The completed forms should be mailed to SIF, 142-58, by 5PM, May 14. Applicants will be told of the results within three weeks of this date.

### Ebell of Los Angeles Scholarships

The Ebell of Los Angeles is offering undergraduate scholarships for the 1991-92 school year. The amount of the scholarship is \$3000 per year paid in monthly checks, September through June. In order to apply, students must be U.S. Citizens, L.A. County residents, have at least a 3.25 GPA, and be attending an approved college in Los Angeles County. L.A. County residence may be proven by in-school attendance. For more specific information on requirements and application materials contact the Financial Aid Office. All applications and materials are due in the Financial Aid Office by 5:00 PM May 17, 1991.

### Career Development News

All graduating Students: Please remember to fill out the Graduating Student Survey as soon as you have final post-graduation plans, or by May 17.

Mark V Systems Limited has summer positions available for graduate-level computer scientists. They are located in Encino.

The Waste Management Institute at the University of Tennessee has openings for technical support in environmental management at Edwards Air Force Base in Southern California. The openings (temporary, entry-level) are for Civil/Chemical Engineers, Computer Scientists and Hydrologists. B.S. degree required.

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.

### Caltech Ultimate

LAY OUT!!! The Caltech Ultimate Machine is at long last forming with hopes of participating in Ultimate tournaments throughout the Southwest. We encourage all disc-hucking undergrads to come practice with us on the north athletic fields Tuesdays and Thursdays from 4-6 PM. See ya there!!

### LA Phil Tickets

The Caltech Y has cheap (\$3.00) tickets for a special college night at the Wiltern with the LA Philharmonic at 8:00 PM Saturday, May 11. David Alan Miller, associate conductor will lead this evening including pianist Julia I, a winner in the Philharmonic's 1990 Bronislaw Kaper Awards Competition. The program will also include Richard Strauss' *Don Juan* and Igor Stravinsky's *Firebird Suite*.

### Broomball Deadline

The deadline for Boffo-Bonecrusher VI is Tuesday, May 14. The cost is \$30.00 per team, open to twelve teams and will run from Saturday, May 18 at 11:00 PM to Sunday at 6:00 AM. Sign up at the Y.

### Fun \$

The Caltech Y has a limited amount of money to be allocated for faculty-student dinners in the amount of \$25.00 per each faculty-student pair (example: 1 faculty, 1 student would get \$25; 1 faculty, 3 students is also \$25.) All applicants must complete a Caltech Y cosponsorship form and be approved by Brian Redin.

### SEDS Tour of Rocketdyne

On May 24, the Caltech chapter of Students for the Exploration and Developments of Space (SEDS) will be touring the Rocketdyne manufacturing facility in Canoga Park. Rocketdyne is the leading producer of liquid rocket motors and provides motors for the Atlas and Delta rockets. For more information or to reserve a space, please call Victor Burnley at 440-9814. Due to security requirements, all reservations must be made by May 16.

### Japan Film Series

A series of classic Japanese feature films will be presented by the Caltech Film Program as part of its spring 1991 series. These works will be screened on Monday nights at 7:30 PM in Baxter Lecture Hall. All the films will be introduced by Professor Robert A. Rosenstone, who will also lead post-film discussions. Shown as part of H 161: The U.S. and Japan, the films - like all CFP programs - are free and open to all members of the campus community.

May 13: *Tokyo Story* (1953). Director: Yasujiro Ozu. A story of the generation gap in postwar Japan, of a changing society in which children and parents cannot hold on to age-old traditions. The best-known film by the acknowledged master of a native Japanese genre that to this day fills Japanese TV screens, the Home Drama.

### Women's Group

The Women's Support Group meets Sundays at 7:30 PM in the MOSH's office. All undergraduate and graduate women, as well as faculty are welcome to discuss the concerns and stresses of daily life in an informal and personal setting. Discussion is moderated by Dr. Lynda Morck, a clinical psychologist. For more information call Jennifer Jungkuntz at 564-8545 or Yu-Chien Kuo at 578-9504.

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# Soccer Champs of San Gabriel Valley

by Flavio Noca

With the Southern California Collegiate Soccer Championship in their bag (see issue of the *California Tech*, May 3), the Caltech Soccer Club had one more challenge to face: the San Gabriel Valley Championship game, which was played last Monday night at Arcadia.

The game was not to be a simple confrontation between two soccer teams, but a fierce battle between two old rivals, Caltech and their opponent, Aston Villa. In last year's championship game, Aston Villa beat Caltech by a score of 3-2 (on a penalty kick scored in overtime). As a result, the battling Beavers set foot into the stadium last Monday, not with serenity, but with an anxious desire of ending Aston Villa's reign over the mountains and hills of San Gabriel.

Monday night. The flood lights are shining. The stands are barely of size to hold the savage and screaming crowd. The radio commentators are... Well, OK, there was neither radio nor TV, but the excitement was as much present here in the city of Arcadia (California) as it were two thousand years ago in the region of Arcadia (Peloponnesos) during the Olympic games.

At seven o'clock, under the scrutinizing eye of the rising moon, a short individual with a funereal mood and sinister black garments released twenty two beasts to run after a rolling black and white sphere.

It was with tension that the Beavers scrambled through the first minutes of the game. Aston Villa

settled into Caltech's half, and showed a strong intention to cover the Beavers with ridicule. Almost halfway through the first half, Aston Villa controlled a loose ball in the Techer's box, and without difficulty were able to disturb the immobility of the the Beaver net. Aston Villa was leading the game by a score of 1-0.

However, Aston Villa failed to recognize that Caltech was more than just a group of theorists spending a night in the open air under the faint light of a million galaxies. For the rest of the game, Caltech was going to reveal to the opponent the tools that make them a hard-to-defeat team: hard work and passion.

As the waves of enemies constantly poured onto the Caltech shore, left full back Scott Josephson would ride them "with style", and turn them into breakers.

It is the same Scott Josephson who on a free kick, awarded to Caltech for rough play, assisted the goal that tied the game. Scott crossed the ball from the left wing into the opponent's box. There, Said Boumsellek, as swift as an electron ploughing through the defensive nucleus of Aston Villa, deflected the trajectory of the ball into the opponents' net. "Cool, dude! Holy Moly! Bien joue! Ad-daboy!" were a few of the the players exclamations in response to Said's most pleasing scattering event of the year (sic).

The score remained unaltered (1-1) 'til the end of the first half thanks to the rock-solid defensive plays of sweeper Philippe

continued on page 6

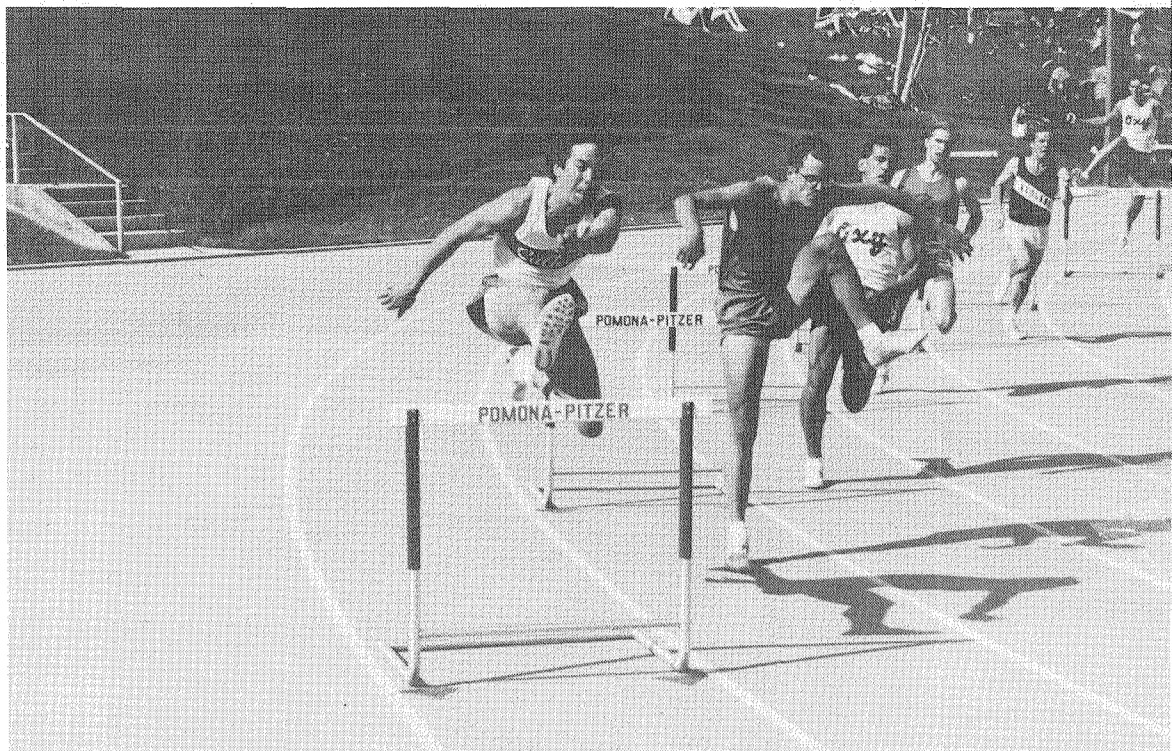


photo by Scott Kister

Greg Dudey competes in the 400 meter intermediate hurdles final on his way to an eighth place finish at the Pomona Track.

# Track Team Sets Records

by Chris Campo

"I want to be 230 pounds so I can power throw my way to Nationals," William Glenn announced with force at Papa's Pizza Parlor after the SCIAC Trials last Friday at Pomona Pitzer College. William certainly looked as though he would make good on his claim, at least about the 230 pounds, when one considers how much pizza he ate.

The qualifying trials last Friday were followed by the finals at the SCIAC Conference Championship Track Meet held the next day at Pomona Pitzer. Unlike dual meets, the championship operated under an invitational scoring system whereby points were awarded to

the first six finishers in each event. A top six finish, difficult because all the best athletes in the conference were competing at the meet, meant that the finisher had achieved all-conference status. Although Caltech's squads did not score a plethora of points, there were some stellar performances by a number of Beavers at the meet.

In the discus trials, William Glenn threw 128 feet, 1 inch, placing him outside an all-conference finish in 8th place. It is not known whether William's performance was aided by the fact that he wolfed down an enormous apple cinnamon strudel pastry prior to his event.

Kitt Hodsdon ran an impressive season best 65.7 seconds in the 400 meter trials but was 8th at the finals with a respectable 66.3 seconds the next day.

In one of the most remarkable performances by a Caltech athlete in the meet, Scott Kister ran a blazing 10:13 in the 3000 Meter Steeplechase final to finish eighth. When one realizes that Kister bettered his personal best by over 30 seconds with this time, and considering that Kister did most of his "training" on the basketball court, the magnitude of his accomplishment can be appreciated. Kister did not consume a large chocolate milkshake and double cheeseburger prior to the race as he had done in last year's competition.

Emmeline Naranjo was spectacular in the 100 meter hurdle trials, running a 16.6, good for a new Caltech school record in the event. Despite Em's claim that, "the wind was at my back," her accomplishment was remarkable. In the finals she ran 17.1 seconds in the event, good for 6th place - an all conference finish.

Em continued her streak of kicking butts and taking names

later in the women's 400 meter hurdle final. The junior hurdling sensation finished in an all-conference 5th place with a blazing time of 69.6 seconds.

In the men's 1500 meter final, Ned Bowden strutted his stuff. While the "sprinklerhead" did not obtain an all-conference placing, he did post a respectable 4:15 to achieve a 9th place finish.

Bowden also finished strong in the 5000 meter final with a season best 17:10. While he, along with teammates Chris Campo, John Pham and Mike Ida, was well out of the all-conference placing range, his finish was respectable. Both Pham and Ida also finished with personal records of 18:22 and 18:45 respectively.

Liz Warner, the perennial workhorse of the Caltech women's squad, achieved an all-conference 4th place finish with her throw of 94 feet, 1 inch in the women's discus final. The Wild Warner Woman achieved a 5th place finish in the 100 meter final, while her teammate Joan Marie Gimbel finished in 6th.

One man who deserves your adulation and respect, a man who took no prisoners and leapt to greatness, a man whose hand you should shake and whose back you should pat as he walks past you, this man is "Jumpin" Jack Prater. Although many other Caltech athletes have performed well and have been noted for their efforts, Jack has not until now been given the respect he is due as Caltech's premiere Triple Jumper. Jack jumped his way to glory: 43 feet, 6 inches. Jack achieved a kickbutt all-conference finish.

Teammates Dave Park and Gary Eastved jumped impressively in another event, the long jump.



The Caltech Soccer Club poses after winning both the SoCal Collegiate Title and the San Gabriel Valley Championship.

## WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Sat.	May 11	5:00 pm	Track	Oxy Invitational	Occidental
Sun.	May 12	12:00 noon	Track	Caltech Open Heptathlon	Caltech



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