

"Two guys with their fingers around the throat of the campus"

THE CALIFORNIA TECH



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FRIDAY 16 MAY 1986

Economics in the Lab Grant to Fund Ec Experiments

[CNB]—A laboratory in which Caltech researchers can conduct experiments in organizational decision processes such as buying and selling, and committee processes, will be established at Caltech with a five-year, \$400,000 grant from General Motors Corporation. The director of the Laboratory for Experimental Economics and Political Science will be Charles Plott, professor of economics and a pioneer in the relatively new field of experimental political economy.

Such laboratory experiments are not just theoretical curiosities. The results of Caltech studies have already been used to aid such widely varied tasks as evaluating methods of setting freight rates and allocating precious airport landing rights.

One such set of experiments, which was used to help railroads set freight rates, was described in an article by Plott, "Laboratory Experiments in Economics: The Implications of Posted Price Institutions," in the May 9 issue of *Science*. The GM grant will enable an expansion and improvement of such efforts.

Economics and political science have both traditionally been descriptive and theoretical sciences. Only recently have researchers turned to laboratory methods to help them understand economic and political phenomena.

"Economists often set themselves extremely difficult tasks," says Plott. "Understanding the effects of deregulation on the airline industry would be an example. This task involves as many complexities as sending a man to the moon. Economists develop theories to help them understand such complicated phenomena, but until recently they didn't notice that it might be useful to test those theories as they operate in very simple circumstances. If the theories don't work in simple cases, why should you expect them to work in the complex?"

"Ec Experiments" are quite familiar to undergraduates, who are lured in droves by the promise of easy cash. In a typical economics experiment, a group of volunteer subjects in the laboratory—mostly ordinary undergrads with no economics training—will be divided into "buyers" and "sellers." The ex-

perimenters create special abstract "goods" that do not require physical transfer and have no intrinsic value to buyers and sellers other than as a means of making profit. To motivate the subjects, the experimenters give them real money, a treasured commodity among students, with which to trade. Sellers buy goods from the researchers and sell them for whatever the market will bear. At the end of the experiment, buyers resell these goods to the researchers at a predetermined price. In this way, experimenters control the costs to sellers and the motivation to buyers. All participants get to keep any profits they make. The amounts, which are enough to make the decisions important for the subjects, can involve hundreds of dollars in total. Within this general framework, the researchers can vary the rules to study the effects of different market organizations and different pricing structures.

Some of Plott's laboratory studies have already had important influences on real-world economic policy. In the *Science* article, Plott describes experiments designed to evaluate two types of market organizations—the "oral double auction" and the "posted price institution." In the oral double auction, used by most commodity markets to set prices, both buyers and sellers are active. Buyers tender bids to buy, and sellers tender offers to sell, and the most recent bids and offers are publicly displayed. Buyers are always free to increase their bids and sellers to decrease their offers. In this way, competitive bids and offers converge until buyers and sellers agree to make a formal contract.

In a posted price institution, on the other hand, each seller submits a sealed bid without consulting with other sellers. The prices are then publicly posted and cannot be changed. Thus, further price competition is not possible. Competition occurs among buyers who must sort themselves among the sellers.

In comparing the two markets, the laboratory experiments revealed that prices tend to be higher for the posted price markets than for the oral double auction. Also, efficiencies—a term used to describe the total benefits and costs

maintained that the ballot was incorrectly drawn up, in that the word "no" appeared on the ballot, while technically "no" is considered to be a write-in candidate.

The ExComm reviewed both the ballot and the results, and concluded that the heading "Syndicate Alley Presents" did not constitute campaign materials near the polling place; that having the said heading did not bias the vote; and that having the word "no" on the ballot as an option was not improper. Therefore, the results stand. In the future, however, the chairman of the ExComm will review the form of the ballot before any given election, to avoid this problem in the future.

ExComm Report

by Theron Stanford
Secretary, ASCIT ExComm

After the close of Senior and Junior class elections on Monday, a complaint was lodged with the ASCIT ExComm contesting the validity of the election. It was proposed that the heading "Syndicate Alley Presents" could have biased the voters in their decision-making, or even prompted people not to vote, nullifying the election results. Even though a runoff of all the candidates, including write-ins, was forced anyway, the argument continued that in a runoff people cannot vote "no" or write in a candidate, so a runoff could not realistically be construed as a fair alternative to rerunning the first election. Furthermore, it was



The Tug o War was but one of the many exciting competitions engaged in at last Saturday's Sports Day.

Photo by John Fourkas

that emerge from the market process—are lower.

This study was used to help set policy when the railroad industry proposed to the Department of Transportation in 1977 that freight-rate posting be required for dry-bulk, inland-water barge traffic. The industry practice was for prices to be negotiated privately. But Plott's study indicated that, contrary to the railroads' claims, a posted price institution would cause prices to go up, efficiencies to go down, and small barge-owners to be disadvantaged. The proposal was then dropped.

The laboratory can also be used for experiments in political science. For example, in another series of experiments, Plott studied how the procedures used by committees shape decisions. Theoretical studies of committees, using the mathematics of game theory, suggested that committees ultimately choose an option that can be described as an "equilibrium," or the core of a cooperative game. The core is an option that is difficult or impossible for the committee to modify, even if all the

continued on page 2

Dr. Attardi Wins Prize

[CNB]—Dr. Giuseppe Attardi, the Grace C. Steele Professor of Molecular Biology at Caltech, has been awarded a 1986 Guggenheim Fellowship by the John Simon Guggenheim Memorial Foundation of New York City. The fellowships are awarded annually to scientists, scholars, and artists whose work has shown "unusually distinguished achievement in the past and exceptional promise for future accomplishment." Dr. Attardi was one of 272 Fellows selected from 3,717 applicants.

Dr. Attardi and his colleagues are developing techniques to introduce new genes into mitochondria, the tiny structures that are the powerhouses of living cells. His research is aimed at understanding how alternatives in the genetic material of mitochondria can cause malfunctions and may be the cause of some inherited disorders.

Dr. Attardi received his M.D. in 1947 from the University of Padua, Italy, and came to Caltech as a research fellow in 1959. He became assistant professor in 1963, associate professor that same year, and was appointed professor of biology in 1967. Dr. Attardi was named to the Steele chair in 1985.

Social Experiences

by Rosemary Macedo

The Caltech Y's Social Experiences Committee (a.k.a. "SE-Comm") was initiated Friday with a well-attended barbecue. For three hours, undergraduates representing every house and graduate students discussed the social life and lack thereof at Caltech.

Goals were set at first; these included: promote seven-house interaction, promote graduate-undergraduate activities, and, of course, improve the general atmosphere (and ratio!) for dating. Many promising ideas were generated to meet these aims. Several plans are already underway, but the Y emphasized that the impact they could have depends on everyone's participation.

The consensus was that special interest clubs (for example, the Outing Club, Karate Club, and Soccer Club) are the single best and most fun way to meet people from other houses, grad students, people from other colleges, faculty, and staff. While there are a great many active clubs on campus, students complained that they are not publicized widely enough. The little *t*, flyers, and the *Tech* announcements are three easy places

to find out what's going on. The Y needs suggestions on more effective ways of publicizing events so the problem can be solved.

Some other ideas which came up:

- Re-rotation through the houses. Blacker house did this after interhouse this year. This provided a great opportunity to meet new people from other houses. Attendees enthusiastically supported a weekly or periodic rotation among voluntarily participating houses.

- Holding weekend buffets with grad students. Not only would undergrads and grads get a chance to meet, but international buffets would provide a welcome change of pace from pizza and Top Ramen™.

- The new student center. All agreed that students should provide more input. To this end, the Y is sponsoring a letter-writing campaign that has two free cookies from the Red Door Café as incentive. The details can be found on page 7 of this issue of the *Tech*.

This is just the tip of the iceberg, folks! The Y wants your ideas about how best to improve social life on campus.

Caltech to Construct Mars Observer Camera

by Ravi Subramanian

Caltech's Division of Geological and Planetary Sciences has been selected to participate in two aspects of NASA's Mars Observer mission. Together with Arizona State University, Caltech will build a camera under the direction of G. Edward Danielson for this unmanned Mars orbital mission scheduled for launch in 1990. Professor Andrew Ingersoll has also been selected by NASA to be an interdisciplinary scientist, combining data from several instruments in the study of martian atmosphere and climate.

The Mars Observer will conduct detailed observations of the planet from a low altitude, near polar, sun-synchronous mapping orbit for a period of one Mars year (687 days). The primary objective of the Mars Observer will be to make observations that will enhance our understanding of the geoscience and climatology of Mars.

The Mars Observer Camera investigation and technical team is composed of a group of scientists with diverse backgrounds. The Principal Investigator (PI) is Associate Professor Michael Malin

of Arizona State University. The deputy PI is Andrew Ingersoll of Caltech. Co-Investigators are G. Edward Danielson of Tech (who is also the Instrument Manager), Harold Masursky of the U.S. Geological Survey, and Joseph Veverka of Cornell. The instrument will be built and tested at Caltech.

The camera has both a wide angle system for low resolution global monitoring and intermediate resolution regional targeting, and a narrow angle system for high resolution selective surveys. The Mars Observer Camera will extend imaging science observations of Mars to a new level, providing at least an order of magnitude improvement in resolution over previous Mariner and Viking data.

As Caltech is where the instrument is being developed, Danielson feels there will be opportunities in the future for undergraduate involvement. At this early stage he is specifically looking for a software-oriented student to investigate advanced image compression techniques this summer. Interested students should contact him at extension 6861.

LETTERS

Fake Ditch Day

To the Editors:

Well, for the first time since 1975, the ol' "Fake Ditch Day" ploy was pulled off successfully. Seniors had the day off and, under the guise of a so-called fake ditch day, no seniors got tied to the proverbial tree. The news media were alerted *not* to show up on campus, in order to lend credibility to the ploy.

The first time the FDD was used was back in 1955, when all the seniors simply stayed on-campus during ditch day, placing cryptic clues such as "Ditch Day is Tomorrow, Frosh" and "Hope We Didn't Wake You Up" on their doors. The seniors then stayed around campus pretending that the "real" ditch day was in the future. It worked. Nobody was tied to a tree and not a single senior spent any of his hard-earned cash on an expensive bribe, only to have his room counterstacked anyway.

Congratulations go out to all of this year's seniors (of whom I am one) and thanks go to all those underclassmen (you know who you are) who know about the fake ditch day ploy but kept quiet anyway.

Ditch Day is tomorrow, Frosh! Ha! Ha!

-Bill Banks
Ricketts Hovse

Responsibility

To the Editors:

I feel I must reply to the letter written by Jeff Tseng criticizing the ideas proposed by Dr. Ted Taylor in his talk entitled, "A World Without Nuclear Weapons?". Unlike Mr. Tseng, I did attend the lecture and found it interesting and thought-provoking.

As I understood it, the main point of the lecture was not to defend one plan for disarmament, but rather to emphasize the need to bring about disarmament quickly and peacefully, even if it means taking substantial risks.

Dr. Taylor opened his lecture by stating that as citizens of the United States, we are all responsible for the mass destruction that will take place if the United States decides to launch a nuclear attack against the Soviet Union. Although you or I won't pull the trigger, we have allowed a government to take office that is willing to consider, and even support, a first strike by

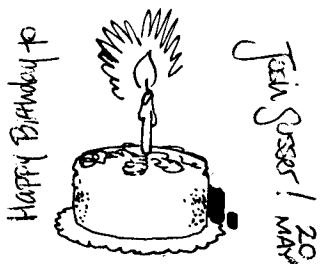
the United States against the Soviets. (A careful analysis of U.S. nuclear weapon policy clearly shows that the United States is shifting away from a strategy of developing stabilizing weapon systems to maintain deterrence to developing a strong first strike capability to use to blackmail the Soviets in world affairs.) I personally find the possibility of having the blood of millions of people on my hands somewhat unsettling.

The only way to eliminate the threat of nuclear war entirely is through total disarmament. Dr. Taylor stated that he has spent much time over the past year thinking about how to bring about total disarmament, but it is not an easy problem. (Sit down and think about it sometime.) In his lecture, he presented the ideas that he has come up with thus far, but did not claim to have the best or the only solution. What he did do was emphasize the need for all of us to think about the problem from a lot of different angles, and to continue to come up with new ideas and solutions. The more thinking that is done about this problem, the more likely it is that a viable solution will be found.

Dr. Taylor acknowledged that his suggestions are idealistic and may not work. However, he stressed that even if we try them and they fail, the consequences cannot be as bad as the alternative of nuclear war or some other form of mass destruction. It is worth taking risks to see disarmament and world peace brought about, a viewpoint that Mr. Tseng seems to oppose. Dr. Taylor captured this viewpoint by closing his lecture with the statement, "It is better to strive for a world too good to be true than to be a part of making a world too horrible to be imagined." I have to agree with him.

Mr. Tseng's letter did contain some valid points. However, in my opinion his time would better be spent creatively thinking about how to improve the world than criticizing those making an honest effort to do so.

-Ann Heil



Economics

from page 1

members wish to do so. This happens when no majority of the committee can be formed to modify the option in any specific direction. Given the attitudes of committee members, this option can be predicted before any deliberations take place. That is, the role of deliberation is simply to move the committee to this ultimate choice. Experiments have demonstrated the accuracy of this prediction under a variety of conflicts and procedures.

The laboratory studies also found that the person who has control of a committee's agenda—the order in which individual matters are decided upon—can often determine the committee's ultimate decision. Such results emphasize that the rules defining the process shape the outcomes and that such influence can be isolated and studied experimentally.

These studies of committees have also influenced real-world policy. In the past, the airline industry allocated airport landing and takeoff rights in a committee process. Plott and Caltech colleagues David Grether and Mark Isaac recommended in 1979 that this procedure be changed to a process in which these rights could be bought and sold on an open market. Their proposal raised an international furor in the airline industry and the idea was dropped at that time. But in the following years, a version of the proposed change resurfaced, worked its way through the bureaucracy, and was finally enacted this year.

All these experiments have so far been done using minimal equipment in simple classroom laboratories. The grant from GM will allow the researchers to set up more complex experiments using larger numbers of experimental subjects. It will also allow them to evaluate more complex theories.

For example, some experiments the researchers would like to do require precise timing, coordination, and control of information. For this the researchers will require a network of computer terminals as well as the software to run on them. The GM grant will help them acquire this equipment and develop the software. In addition, the grant will allow Caltech to bring economic and political theorists to campus for short periods to help develop experiments to test their own theories.

Besides Plott, the following Caltech faculty will work in the Laboratory for Experimental Economics and Political Science: David Grether, professor of economics; Keith Krebiel, assistant professor of political science; John Ledyard, professor of economics and social sciences; Richard McKelvey, professor of political science; R. Talbot Page, senior research associate in economics; Alan Schwartz, Luce Professor of Law and Social Sciences; and Louis Wilde, professor of economics.

News From the GSC

A new board of directors was voted in by the Graduate Student Council at its meeting on May 13th. The directors for the coming year are shown in the box.

Tony Skjellum was elected Chairman, and Tony Stirk was elected Vice Chairman. Lynn Hildemann and Roger Wagner were re-elected as Secretary and Treasurer, respectively.

For the coming year, the GSC can have up to 33 directors. One director is allowed for each 50 graduate students or fraction thereof in a given department, along with a total of 3 At-Large Directors.

Many departments are not cur-

rently represented on the new board, including Applied Physics, Astronomy, Electrical Engineering, Engineering Science, Mathematics, and Social Science. Other departments are under-represented, namely Aeronautics, Biology, Chemistry, Chemical Engineering, Geology & Planetary Science, and Physics. Graduate students from these departments are encouraged to join the GSC.

To submit a late nomination for yourself (or your favorite office mate), obtain the signatures of 4 graduate students in your department on a nomination form. These forms are available from Tony Skjellum (206-41, x4634).

Aeronautics.....	Steve Schneider (205-45, x4744)
Applied Math.....	Robert Cox (217-50, x4549)
Biology.....	Michael King (156-29, x4958)
Civil Engineering.....	M. Agnes Allard (104-44, x4158)
Chemistry.....	Tony Stirk (127-72, x6556)
Chemical Engineering.....	Ann Heil (206-41, x4553)
Environmental Engineering.....	Lynn Hildemann (138-78, x6672)
Geology & Planetary Science.....	Steve Salyards (252-21, x3825)
Mechanical Engineering.....	Kristin L. Wood (104-44, x3633)
Physics.....	Gary Gutt (301-38, x4239)
At Large.....	Tony Skjellum (206-41, x4634)
	Michelle Teng (104-44, x4112)
	Roger Wagner (156-29, x4923)

The Caltech Y Fly-by

Friday... May 16

Lost property sale: Noon on the quad.

Noon Concert: Nonsense

Wednesday... May 21

Movie Night in the Y lounge, features TBA.

Friday... May 23

Noon Concert: JPL Jazz Band.

Remember Renaissance Faire until May 26 in Agoura.

Any questions, comments, or ideas?
Come see us in the Y office or call x6163

Wanted: Business manager for the California Tech. Duties include organization of advertising, and ad layout. Fantastic pay and benefits.

For details, contact Dave Goldreich, x6154.

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. DITCH DAY IS TOMORROW .

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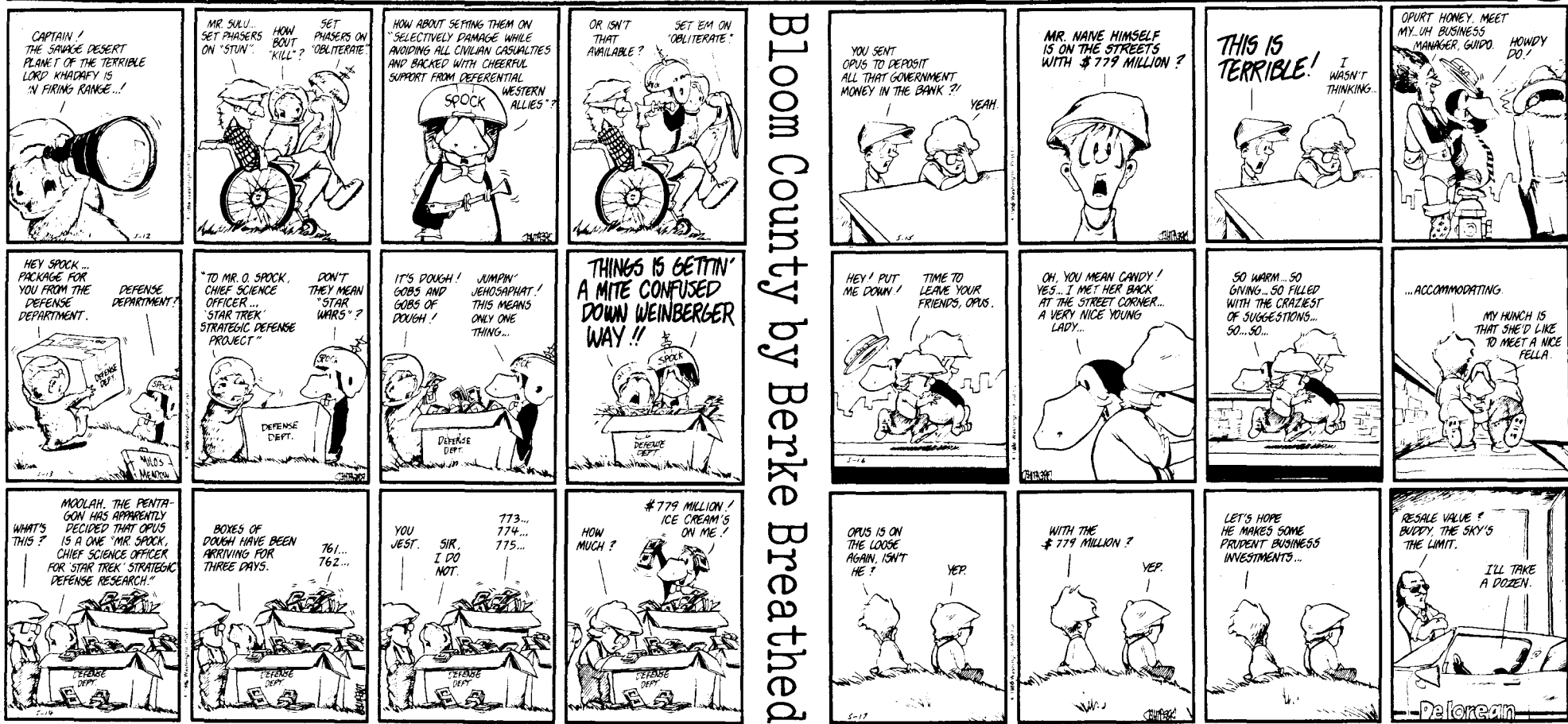
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"It's the Law"

With Mike Roberts

On the Hill of Death: Patrick J. Wayne and his recently acquired copilot were aboard the SecuriCycle II, a huge bicycle and portable campground, which was screaming uncontrollably downhill toward an immense wall of pink flamingos erected by Dr. James Xi, Wayne's arch-enemy. It looked hopeless for credit-card fraud agent Wayne and his copilot, when they remembered the SecuriCycle's retractable airfoils. Quickly extending the wings didn't save them from seemingly certain death, however; the SecuriCycle was overloaded with heavy items and refused to respond to controls. Wayne engaged in a frantic effort to throw the excess weight overboard, while the copilot made first-principles calculations of just how hopeless the situation had become. Finally, with only microseconds to spare and every loose item discarded, Wayne pulls back desperately on the control stick...

The nose reluctantly became lighter, and the front wheel lifted a few inches off the pavement. I pulled back on the stick as far as it would go, and a sudden surge of lift pulled us off the pavement and roaring past the flamingo wall. Xi was visible shaking his fist in the air as we lifted away.

After a few hours of flying and thinking, I could not decide what to do next. My copilot was reading the *Wall Street Journal* while I flew the bike. The SecuriCycle II had a range of about eight thousand miles, so we weren't in need of landing for a while longer, but I was afraid of what Xi might do now that he didn't have to worry about entertaining me. I knew I had to act fast.

"Hmm, this is interesting," the copilot said. He handed me the paper and pointed to an article. The headline jumped out of the page at me:

Xi to buy Dabnicorp
"I'll charge it on my DarbCard™,"
Says Niad Scientist

I executed a tight left one-eighty degree turn then opened the throttle. Xi had to be stopped.

The stick slowly gave to my pull; the control surfaces lifted as their servos whined. Air rumbled past the airfoils with so much turbulence that the copilot could hardly solve the fluid-flow problems in-

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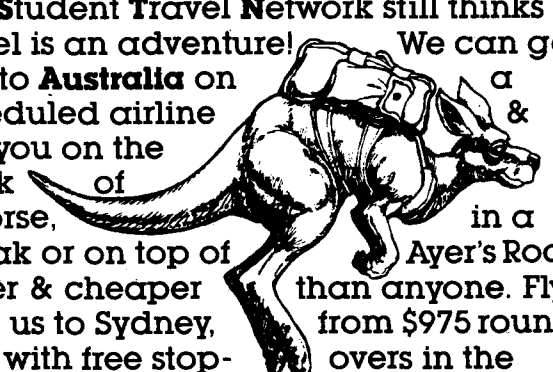
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ENTERTAINMENT

Fire With... Oatmeal?

by John Fourkas

Fire with Fire
Directed by Duncan Gibbins
Paramount Pictures

Take one youth serving time in an Oregon "honor detention camp" for a "minor crime". Add in a warden who is meaner than the day is long. Now throw in a pretty, young, repressed girl with jet set parents who have sent her to a Catholic school in the middle of the Oregon woods. What have you got? Paramount Pictures claims that you have *Fire with Fire*; I think that a more appropriate title might be *Oatmeal with Crackerjacks*, but who am I to say?

Fire with Fire is the story of Joe Fisk (Craig Sheffer), a slightly misguided young man who is put in an honor detention camp for nine months for driving a car through his mother's boyfriend's window (because the boyfriend "treats her bad"). While on a camp race through the woods during his first day at the camp, he encounters Lisa (Virginia Madsen) floating in a pool and trying to look like Ophelia. Apparently it is love at first sight, although you wouldn't guess it by looking. At any rate,

Joe heads on to win the race, thereby gaining the firm wrath of the warden (for no apparent reason). This sets the tone for the rest of the movie: no apparent reason. Joe and Lisa manage to arrange meetings, and within two hours of acquaintance are deeply in love. The rest of the plot is left as an exercise to the reader. (Hint: Joe is not allowed to leave the camp or receive or send letters or phone calls. Lisa has similar restrictions.)

On the whole, I would say that *Fire with Fire* was doomed from the outset by a terrible script; let's face it, the whole idea is entirely hokey. With this in mind, *Fire with Fire* manages to do some pretty incredible things. First of all, the cinematography is marvelous. Although the film is set in Oregon, it was actually shot in British Columbia, and the scenery is incredibly beautiful. Director of photography Tova Laiter handles this scenery and the actors well indeed. The cast itself isn't bad; Sheffer and Madsen have a couple of truly electric scenes. If some of the acting seems a bit stiff, this is probably attributable to the script.

Time after time, the underlying

cause for weaknesses in this film seems to be the script. The first hour and a half of the movie is designed to create tension and anticipation, and yet the last twenty minutes is so hurried as to be entirely anticlimactic and unbelievable. The writers seem to have no idea of the meaning of "concise." Every scene of *Fire with Fire* is necessary to the plot, granted, but herein lies a fault. It is obvious to me from reading the production notes (purported to have been current only four days

before the screening that I saw) that much of the movie had been edited out at the last minute. Perhaps this contributed largely to the cardboard nature of the characters, but if so the writers should have realized this; after all, no major motion picture company seems willing to release movies which last much longer than a hundred minutes in these days of television-induced five minute attention spans.

The problems with the script extend even further than this, however. For instance, what is a gung-ho warden who obviously doesn't care for the kids doing in charge of an honor detention camp? There are plenty of places for people like that in prisons, to

be sure; an honor detention camp is meant to show the youths the value of hard work and honesty, ideally. No such luck here, however. This warden is perfectly happy to bully the inmates and give them as hard a time as is possible, including constantly menacing them with a sawed-off shotgun. Reform indeed. This film might have been a lot better off with a truly caring warden who was forced to follow regulations, no matter how much he disagreed with them. The interplay between such a warden and Joe could have proved to be quite interesting. A combination of this and more substantive characters for Lisa and Joe could

Continued on page 7

Bad Film; Great Flick

by Nature Boy

No Retreat, No Surrender
Directed by Corey Yuen

The next logical step is to request \$7000 from ASCIT. Last Thursday night, while the rest of the campus groaned under a heavy work load, the Caltech Bad Movie Club's inaugural event proved a smashing success. Faculty sponsor Mark B. Wise, while getting inebriated at the Ricketts House tri-annual cocktail party, said "Every once in a while, when I was at grad school, I would get a bunch of people together and we would go out and see a bad movie. I became the default leader because, you see, I have no taste." He then lamented that he had no one to go to bad movies with any more. He explained, "You don't take your wife out to see a bad movie." Sage advice, indeed.

He continued, "No one here wants to go out to a bad movie with me." Turning to Professor Politzer, who had not yet sunk to the Ricketts lounge carpet under the weight of the alcohol, he asked, "Do you want to go and see a bad movie?" Politzer shook his head as if to politely reply no. Thus, the idea, well oiled by cocktails, was born. It was a fortunate act of the gods that the students who have less taste than anyone at CIT happened to be present: scurvy physicists.

We had a delicious dinner at the Chinese Grizzly. Wisely, we didn't eat steak, because we ate with

plastic twigs; it was very expensive. Fortunately, Mark B. Wise has a Sloan fellowship and he paid for it all. What else is a theoretician going to do with money?

The movie was much worse than we had expected. (Your humble author had picked well.) The ads had promised some sort of U.S. vs. Russia karate flick, perhaps on the level of *Rambo*, *Gymkata* or *Blade Runner*. Actually, it was much worse; the sole Russian, Ivan, was not really Russian at all, he just had a bad German accent and was owned by some Mafia men. So much for any motivation, character or otherwise. This left the viewer with an uncluttered view of the acting itself. I confess that I really didn't understand it. I assume that the actors were the product of some post-modern acting school. After all, when I look at modern art, I only see tasteless blobs and people tell me it's the product of great genius.

This left an uncluttered view of the only thing that remained, the gratuitous violence. After all, why else would one see such a movie? There were lots of really bad karate scenes. There were many times when we saw the adolescent hero train, à la Rocky at night, and there were lots of bad actors that got beaten up. Before you get the wrong idea, I must remind you of the level of quality of the film: *no one died*.

They all certainly deserved to.



An action-packed scene from *Fire With Fire*. Top to bottom: Craig Sheffer, Virginia Madsen. Note placement of knee.

Photo Courtesy of Paramount Pictures

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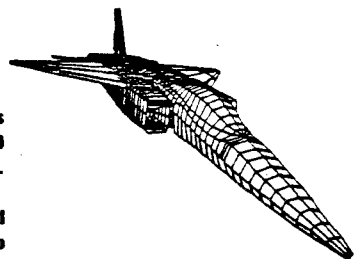
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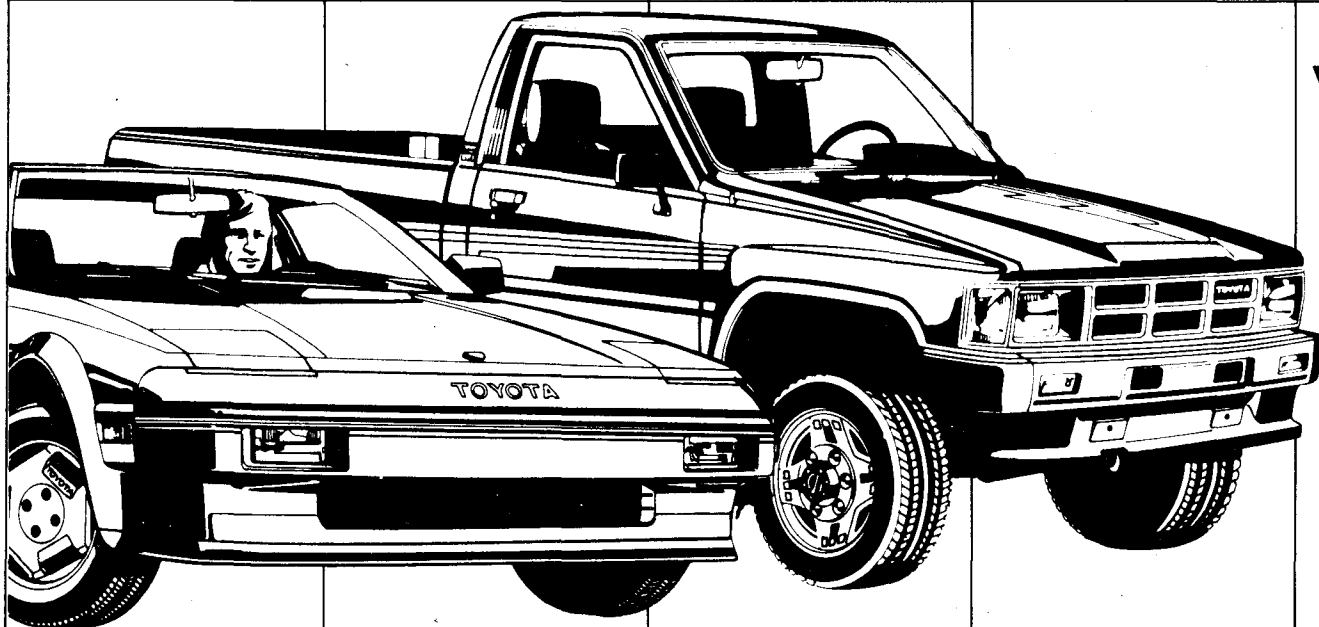
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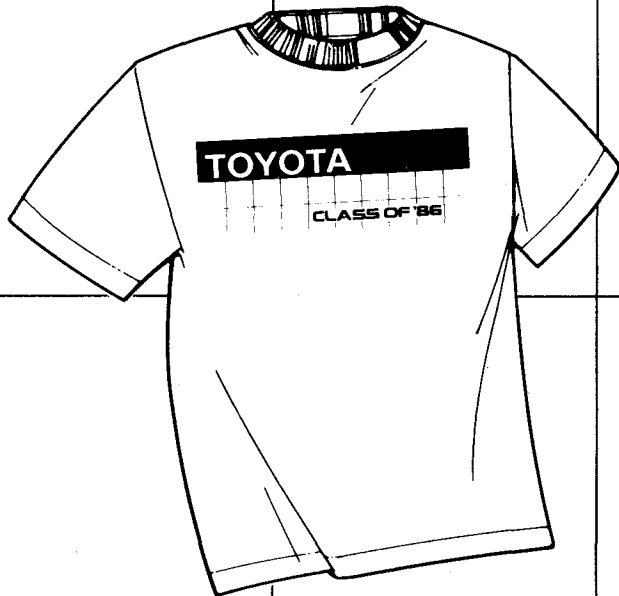
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(213) 467-6161

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(213) 259-8888

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Gem City Toyota
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(818) 359-8271

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The Inside World

Dabney: We had an ex-comm meeting. We had some parties. Everything was a success. The party at the penthouse was really fun. Wow, didn't those girls from Oxy really liven it up. We had some sports events. The games were surprising yet exciting. Some inside jokes we had were really funny.

Just a minute. Just wait a minute. Hello? Is anyone there? Is anyone listening? I don't mean *you* people, you Darbs; I know you read this. How about everyone else? Well?

I just want to take a moment to urge the rest of you to read the *Inside World* articles submitted by other houses. There are several good reasons for doing this, which I'll present below.

Fun. It's much more fun to read other people's *Inside Worlds* than the one for your house. Think about it: wouldn't it be more interesting to hear about parties to which you didn't already go? About sports events you didn't already see? About meetings you haven't already attended?

Information. By reading, say, the *Dabney House Inside World*, you can keep abreast of the latest trends and tales, fads and fashions, people and places, and rooms and rumors in a House in which you rarely set foot, a world foreign and exotic.

Boredom. You don't have anything else to do anyway. Surveys of Techers clearly indicate that the average student here has over *four hours a week* that aren't spent on school-work—the *Inside World* is an excellent way to fill those long, idle hours.

Courtesy. People had to take the time to write these columns. Common courtesy requires that you read them, give them some serious thought, and maybe even drop the author a note telling him what you thought about the article.

Conversation. It is much easier to talk to people from other houses if you have something to talk about. For instance, if you should find yourself talking to a Darb this week, you can easily break the ice by saying, "How about those Dabney House sports events? Surprising yet exciting, weren't they?" Reading the *Inside World* will thus make your conversations with members of other houses much more comfortable and fulfilling than the usual long minutes of agonizing silence that most of us seem content to suffer through day after day.

Purpose. If you don't read the *Inside Worlds* from other houses, they lose their purpose. It simply isn't necessary for me to tell other Darbs what we did last week; those that were involved will already know and don't need (and in all likelihood don't want) to read my summary, and those that weren't will feel only bitterness and hate for having been left out of our group activities yet again, obviously because no one liked them enough to ask them to join in the fun. Hence, it follows that the *Inside World* is not for Darbs, but for the *rest* of you, who obviously *couldn't* take part in our social activities even if you'd wanted to and who therefore feel no bitterness for having been uninvited. The same is true of all the other houses. You can clearly see that reading the *Inside World* for the other houses is, in fact, your duty as a house member, as it helps to quell unrest and dissent. The House System is a good one, and I'd hate to see it killed by apathy and liberalistic "first amendment" rights to publish this kind of subversive trash. Do your part.

I think I've painted a pretty convincing, if grim, picture. If you're a Darb and you're reading this, stop now, and read all the other *Inside Worlds*. When you've done that, go to your friends in other houses, and get them to read this. If you're from another house reading this, I offer you my sincere thanks as a house member and believer in the rightness of the house system for your support in keeping the system going a little longer. Finally, if you're one of the elite few—the other six writers of the *Inside World*—let me take this opportunity to urge you to keep up the good work. Keep reporting, as vigorously as possible, the parties, meetings, jokes, and sports events of last week. Really make us live those magic moments, even though we couldn't be there. Through your writing, let us really feel for a few brief paragraphs what it's like to be a Flem, a Mole, a Rudd, a Lloydie, a Page Dude, and a Scurve—in other words, a Techer.

—"J"

Fleming: Well, room pick is finally over, or at least over enough that the way is cleared for Summer Room Pick. Be around next Wednesday (5/21) if you want a room in Fleming. Remember to get summer contracts in today and sign up for your housing preference on the Master's Office door by Tuesday.

The Big Red Machine swatted its way to an easy fourth place tie in Interhouse Tennis, meaning that Interhouse is essentially ours. Especially if football goes anything like practice. Just one word describes our team this year, and that's "Awesome". It's a pity to see the Boys out wasting their time practicing, because they ain't gotta chance. Oh well, maybe next year.

Congratulations to Linda, Chris and Jonathan for earning the chance to represent Fleming at Frosh Camp. What are we going to do with 200 frosh? That's what I wonder.

Discobolus goes on, with a tie turning into a win against Blacker in broomball. Sometime in the near future it'll be Ultimate vs. the Boys, against Vito's better judgement I presume. This weekend it's Ultimate vs. the Juniors at Outdoor Olympiad. Let's hope that the other classes can field a team and give the Juniors a little competition. I guess we'll just have to wait and see.

Until next time...

—Al Fansome

PS: Ditch Day is definitely tomorrow, any way you look at it.

Page: Syndicate Alley Presents: The Page House Inside World! Well, let's see. What's new this week? We have, yes—you guessed it—Vito and *LE* are going to the ASCIT, excuse me, SPRING formal together. Upon the advice of VVF's fashion consultants, Vito will be attired in a specially tailored camo tux, while his date will be sporting the latest in pylon wear.

If you are reading this sentence, you are obviously not one of the *individuals* who opposed the awesome *Syndicate Alley* ballots. When threatened by the possibility that Othmer (me) would run if there was a re-election, the ASCIT ExComm wisely decided that the results they had were good enough.

The entire campus is invited to salute the *Syndicate Alley American Flag* (as long as they wear shoes). Only one week left until *Cobra Spaghetti Night*. This means you, Scott Karlin.

Psycho and Bruno demonstrated their maturity Wednesday with an

awesome display of their ability to smear food on each other's bodies.

By the way, how the hell are you Hasok? Or was it Tylis we were going to move in with?

Football scores of the week: Thursday we easily beat Lloyd: 39-12. Monday Dabney went down, and Tuesday Ruddock was defeated 26-18.

Even though Schaefer says "[We use] pure water, choicest hops, finest barley malt, corn and cultured yeast," the fact is: \$.30 will buy a can in the beer fridge. When it's cheaper than soda, who could complain? Coming soon: Black Label at \$.22 a can.

On the 23rd, (Cobra Spaghetti Night) the Burn Victims (formerly Captain Sex and the Five Seamen, a much better name) will be playing the Noon Concert.

Next time you see Larry, ask him about how Teddy is. Also, beware the lair when the kneebite's there!

Incase you don't know by now, we are dru ck.

—Cynthia Katherine

Ricketts: The hot conversational topics this week have been Ditch Day and Room Pick. As for the former, clever seniors impersonated the Real Thing, enjoying leisurely breakfasts at fine restaurants while the underclass discovered that there was no one inside the Santa Claus suit.

Room pick... the one time of the year when *everyone* gets into politics. Anticipation ran through the house like hot fudge, as all Scurves did some heavy coveting of their neighbor's rooms. ("Hi—lemme in for a sec, just measuring your carpet... nice mural ya got there!")

This year's recipient of Instant Membership, Nicole Vogt, gained political asylum in Broken Cherry alley for herself and her lime-green shoelaces. Nicole continues the grand refugee tradition established by Diana, Sandy, Robin and Kim. Lisa and Susan (and others?) are waiting in the wings... it must be our enlightened social atmosphere that does it.

Student-Faculty Cocktail Party Today! All faculty are invited to sample a multitude of sophisticated adult refreshments and ever-increasingly witty conversation.

—Jens-bo and Josh

Ruddock: Music that I can dance to... that alone is enough for me. Of course, the Pasadena Police Force decided even that was too much and moved Sam's party inside. "Come as you were in a previous life" was the theme, and while Amy was an awesome go-go dancer, Scott Miskovich took the cake, being reincarnated as none other than Yarmo. Sam, not being the type to star at one party, is organizing an Alley 5 road trip to Tijuana this weekend...

Once again, thanks (I suppose) to the fact that Ruddock Blue is the cool color to wear, we have a new social member: David Cole. Other things discussed at the house meeting were the five amendments to the constitution. See the 1.5/4.5 stairs for details and voting.

The ping pong tournament is in its final stages. Play your games so I can stop saying that. Play football, think football, live football... or at least go cheer football. Go big Rudd!

Not much more to say... the formal is tonight, Ditch Day is not tomorrow, and Sam, why were you playing the Ride Thursday morning? Party down, kids; only a couple weeks left.

—Betsy the Frosh

Hot and Throbbing

Yes, this year's *Rivet*, the traditional end-of-the-year parody issue, is coming up soon—look for it June 6th. We need extra hands to write for and generally help out on... *The Weekly World Rivet*. Top psychics predict it will be bigger than Elvis and Feynman put together!

Contact Peter Alfke, 578-9219, or Josh Kurutz, 356-9414 if you're interested.

Letter Jackets

If you are interested in buying a letter jacket, an order will be going out next week. This is primarily to give seniors a last chance to order jackets, since the jackets may not arrive before the end of the term. If you are interested, call Chris Schofield at 795-8252, or leave a message addressed to him in the Fleming off-campus mailbox.

Attention Alumni

For those of you who have recently received letters from the *Big T*: please disregard the April 25th deadline. Due to our poor estimate of mailing and printing times, the deadline has been extended to June 1. Thank you for your support.

Grad Student Housing

Graduate student housing information packets and applications for 1986-87 are now available in the Housing Office. If you are interested in obtaining information for next year, stop by the housing office and pick up a packet or call x6178 and a packet will be sent to you.

Renaissance Faire

It's time again for the Renaissance Pleasure Faire in Agoura! Come one and all for great food, entertainment, costumes, and wonderful crafts! The Y is selling tickets for \$6.50 (they normally cost \$12.50 at the gate). Tickets are good for any weekend through May 26! Transportation may be available.

Too Busy For Real World?

If you find yourself too busy to follow the news, there's an alternative. Read *The Outside World*, a weekly, 2-page summary of world news published by STRIVE. Copies are mailed to subscribers and distributed to Millikan (front desk), Baxter (Public Affairs Room) and the Y. To subscribe (free of charge), sign up in front of the Y office in Winnett or contact the editors: Hasok Chang, 1-59, and Paresch Murthy, 1-59. Also, if you're interested in helping with writing, research and production, please contact the editors of the newspaper.

THE 6TH ANNUAL

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HA, HA! LOOK AT THAT KID WITH NO TAN! BOY IS HE OUT OF IT!

HA, HA!



WHAT GOES ON

1986 Camp U.C.C.s

The Deans are interested in hearing from you if you would like to attend Freshman Camp as a U.C.C., and have not already been chosen. Submit a brief written description of your unique qualifications (campus activities and why you want to go) to the Deans' Office (102 Parsons-Gates) by Thursday, May 22nd. We hope to add to the diversity of the Camp experience for freshmen with your help.

154-Inch Anglo-Aussie

The May 21 meeting of the Caltech-JPL Numismatic Society will feature a slide presentation by James W. Hanner on "A Visit to the Anglo-Australian Observatory." The observatory houses several telescopes, including a 154-inch, one of the largest in the world and the second largest with access to the entire southern sky. It is in a dark and dry location about 250 miles northwest of Sydney.

Another attraction of the evening will be the popular drawing of old coins and proof sets.

Meetings are held the third Wednesday of each month at 7:30 pm in room 168 Church Lab on campus. All Caltech and JPL personnel and their families are invited to attend.

Chamber Concerts

Chamber music will be played at 8:00 pm on Friday, May 16 and Sunday, May 18. The Student-Affairs-sponsored concerts will feature string quartets, woodwind quintets, and brass quintets. The Friday engagement will be held in Dabney Lounge and the Sunday gathering will be in Winnett Lounge. Admission and refreshments will both be free.

YAF Speaker

The Caltech chapter of Young Americans for Freedom is pleased to announce that Dr. Bill Allen will give a free lecture in Baxter Lecture Hall on Wednesday evening, May 28 at 8 pm. Dr. Allen is a professor of government at both Harvey Mudd College and the Claremont Graduate School, and until very recently, he was a Republican candidate for U.S. Senate. All are invited to attend.

Summer ChemE Job

Ultrasystems, a small engineering consulting firm in Irvine, has a summer position open for a ChE. Interested students must be at least junior level. Position will be filled next week. If you're interested, come by the Career Development Center, Room 8, Parsons-Gates to get more information.

The little t Needs YOU!

This summer will see the creation of next year's little t (we're getting new printers, so it will even be out on time!). The little t would like your help—if you know of anything inaccurate or out-of-date in this year's edition, or know something you think would be useful to others, or especially if you have new RESTAURANT REVIEWS, drop a line to the little t, 107-51!

little t Needs Club Info

The "Clubs" section of the little t will need updating for next year. From new clubs, I need a description of your club, and whom people should contact if they're interested. Old clubs should submit information only if what's listed in the current little t is incorrect or out-of-date. If a listed club is now defunct, tell us. Mail it all in to: little t, 107-51. Thanks!

Write For Cookies

The Caltech Y is sponsoring a letter-writing campaign to let the Provost and other administrators know what the undergraduate and graduate students want in the way of a student center, as a frontal assault on bureaucratic inertia. As an incentive, the Y is offering each letter-writer a coupon for 2 free cookies at the Red Door Cafe. All you have to do is compose a letter describing what you want in the way of a student center, and send it to the Y at 218-51. The Y will take care of the rest, and make sure that the letters get delivered to the important hands. The deadline for letters is June 6, 1986, and the cookie coupons are good through June 13, 1986. Suggested topics for letters include:

What facilities you want in a student center. Think in terms of what you would really like to see and would like to use.

Where you want a student center, and whether you want a new building or additions to present facilities.

Any other concerns about the student center—whether you want one at all, the advantages or drawbacks of grad/undergrad socializing, or anything else you can think of.

Remember, if enough of you don't get off your posteriors and at least say what you want, "they" will be able to say "Why bother spending money, the students don't care."

Summer Warmup Party

The Caltech Chinese Student Association is going to have a party with P.C.C.'s Chinese Club this Saturday, May 17, from 9:00 pm to 1:00 am at Chandler Dining Hall. Admission is \$5.00 for non-CCSA members and is free for all CCSA members. Come and have fun!!



Photo Courtesy of Caltech Glee Club

This Saturday night, May 17, the Caltech Men's and Women's Glee Clubs will be presenting their annual Spring Concert. They have already given many successful performances this season, including a tour of Northern California and singing at the Pacific Southwest Intercollegiate Choral Festival. Join-

ing the Glee Clubs will be other seasoned performers: the Sweet Adds, the Men's Barbershop Quartet, and the Caltech Chamber Singers. Each of these groups will be presenting a wide variety of music. For the traditional audience, there will be music by Brahms, Purcell, and Distler, as well as some Renaissance madrigals. On the lighter side, the groups will perform a variety of Broadway "show tunes," American spirituals, folk songs, and barbershop quartets. There will be something for everyone, so bring a friend and come enjoy an evening of music!

Tickets are available at the Caltech Ticket Office, at x4652, or you can buy them at the door. Prices are: \$6 for general admission, \$4 for children or full-time students, and \$2 for Caltech students (a bargain!). The performance is Saturday, May 17 at 8 pm. Seating is first come, first served, so get there early if you want a good seat.

Fire With Fire

from page 4

have done huge amounts of good for *Fire with Fire*; it might have been a wonderful movie, in fact.

The crowning glory of the script is the finale, which epitomizes the utter lack of subtlety in the movie. I won't give away this ending, since the movie does have enough good points to be worth seeing at a bargain matinee some time, but I will mention that the ending, like the rest of the film, leaves nothing to the imagination. I suspect that this is because the writers were lacking in this department also. In truth, your best bet is to wait for the videotape—it ought to be around in about three months. Somehow I don't think that *Fire with Fire* has the elements of a commercial success...

More Inside World

Blacker: It was 7:52 in the morning when Dave walked through our room and shouted, "Get up now! It's D-----!" Seven minutes later we were huddled in front of Rob's bedsheet, the envelope in Nancy's sweaty palms.

"It's one before eight..."

"My watch says 8:01! Open it now!"

We tore the envelope to shreds. Inside the card read: "Go back to sleep—FROSH!"

Disappointed by the seniors' impotence, I went back to my room. Incredibly, my roommate was still snoring softly. Gears started turning...

"Andrew! Get up! We're all waiting for you!"

"Huh? Whah? Okaaaaay..."

I waited patiently outside talking to others until he burst out of the room. "See? I told you so! It was today! Where do I go?"

"There're sign-ups in the lounge! Hurry up—there's a limit to the number of people per senior!"

He bolted down the stairs, shrieking, "Who should I sign up for? I hope I'm not too late..." Poor kid. We had our chuckles and went back to our respective businesses.

A few minutes later he came back. "Hmm...there's no one downstairs, and the sheets are still up... How come you're still here?"

"He's taking it well," I observed. Might as well play along. "I have to get some breakfast in me. I'm doing an, um, an Iron Man stack. Yeah, that's it. Three miles of swimming, ten laps around the Rose Bowl on a bike..."

"Oh, I see. I might as well have some breakfast, too. I didn't see that one... See, didn't I tell you? Nobody listened!"

Oh oh. Better keep an eye on this guy. We talked while the eggs were cooking. Me: "So I have to go to lab today."

"You are? Well I'm not going to. I hope we don't have to pick up a Chem quiz..."

"I think I'll go to my 9 o'clock."

"Are there still lectures?"

"They have to, Andrew. Otherwise they could get sued."

"Oh."

He's just playing along, I thought to myself. Nobody's that clueless. The watch read 8:45, so I decided to test him.

"Andrew?"

"Yeah?"

"How long were you duped for?"

"What?" (a few seconds) "Oh." (a few more seconds) "Oh no! No one told me!"

I sighed a heavy sigh.

"Well, I guess I'm going back to bed," quipped the gullible frosh. "I probably won't even remember any of this when I wake up."

"Sure, Andrew..."

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WHAT GOES ON

Exchange Students

Taste the flavor of another culture in your home by hosting a foreign exchange student. Students, aged 15 to 18 years old, will be arriving in August for the 1986-87 school year. Students are carefully screened, bring their own spending money, and have excellent medical coverage. Families provide a bed and meals and foster an environment of mutual love and understanding. Families may claim a \$50 tax deduction for each month they host a student. For more information, please contact: Youth Exchange Service (YES), World Trade Center Bldg., 350 South Figueroa St. #257-P, Los Angeles, CA 90071, or phone 1-(800) 533-0656.

Sample Air For Money

The Environmental Engineering Science Dept. "Fog Squad" is hiring undergraduate research assistants for field and lab work this summer. Several projects are planned to determine the fate of air pollutants in Southern California and the role of fog and cloud water in the production of smog. In addition to the L.A. area, our field sites will include the Santa Barbara Channel and Sierra Nevada. Job duties would include retrieving fog and aerosol samples, chemical analysis, and assisting in data interpretation. We also have a position for a person with an engineering background interested in design and construction of sampling instruments.

If you are interested in being paid to get away from the Pasadena smog for part of the summer, see Mr. Popa in Keck 102 or call x4407.

Engineering Design Contest

The highly acclaimed engineering design contest of last fall will be offered again in the autumn of 1986 as ME 72a (Engineering Design). The course number has changed from ME 5, but the content and the style remain the same. Note that the details of the contest will be different (and secret) this year. Please also note that previous participants in the contest are ineligible for the 1986 contest (despite the change in course number). Pre-registration is encouraged to facilitate planning during the summer. Any interested junior or senior who does not have the stated pre-requisites should see Prof. Antonsson in 318 Thomas. Engineers as well as non-engineers are encouraged to enroll. However, enrollment is limited to 30 so register early.

This year the day, time, and location of the final contest will be publicized well in advance, and spectators are welcome.

Special Campus Tours

The Architectural Tour Service here at Caltech (bet you didn't know we had one) will offer guided walking tours of architecture on the Caltech campus, as their contribution to the Pasadena Centennial.

The free tours, which will last one hour and fifteen minutes, will take place on Saturday, May 31 from 10 am to 4 pm. They will trace the Institute's architectural history, beginning with the work of architect Bertram Goodhue, who designed four Caltech buildings, as well as the original plan of the campus in 1916.

The Caltech Architectural Tour Service is a docent group recently organized by the Caltech Women's Club. For tour reservations, call Bonnie Baker at the Caltech Public Relations Office, (818) 356-6228.

□ Square □ Dance □

Next Friday, May 23, in Winnett Center. Dance lasts from 8:00 to 10:30 pm. Come early and learn the steps. Bring your friends and join the fun. Refreshments will be served. Co-sponsored by CCF and the Caltech Y.

Kelroff Tomorrow

Kelroff starts at 7:00AM Saturday morning. If you have a team, and you haven't talked to me yet, show up at the track tomorrow morning at 8:45. All teams need to show up by 8:45. If you would like to run, but don't have a team, show up at (you guessed it) 8:45 and we can probably find you a team to run on. The race will start on time, so get there early. Food will be provided for the runners, and you can buy T-shirts.

If you would like more information, call either Dave Gallup or Jeff Willis, at x3774.

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Summer Housing

Students wishing to live *on campus* for the summer must sign their name and year on the door of the Master's Office by 5:00 pm, Tuesday, May 20, under their choice of House. Contract deadline is May 16. Contract must be submitted by deadline to hold room selected at roompick. Roompicks will take place between May 21 and May 30.

Student Garage Cleaning

The student garage, located at the north east corner of the Holliston parking lot, is going to be cleaned out on Saturday, May 24. Everything will be thrown out, and the building cleaned. Anyone with an interest in any of the engine blocks, tires, motorcycle frames, etc. currently scattered about the garage is urged to remove them before then, lest they disappear forever. Anyone with an interest in helping is invited to come by (in old clothes) and share the work and, hopefully, beer and pizza (courtesy of the Y). For more information, contact Ralph Wolf at x6830 or mail to 218-51.

Summer Jobs

The Alumni Association, in conjunction with the Career Development Center, has generated some summer job possibilities. These positions are *currently* available, so if you are interested in summer employment, you should come by the CDC as soon as possible. We expect to have more jobs available so please check with the CDC (Room 8, Parsons-Gates) on a regular basis.

Scholarships For Women

The Asian/Pacific Women's Network—Los Angeles is encouraging applications for four \$1000 scholarships for women of Asian or Pacific Island ancestry. The scholarship categories are:

Immigrants, including refugees in pursuit of higher education or ESL.

Life Change, including those individuals returning to school after raising their children, individuals in mid-career change, and individuals in pursuit of leadership training.

Academic, both undergraduate and graduate study.

Trade/Vocational—women pursuing a trade or vocational training to develop and/or enhance new skills.

Applications and information can be obtained by writing to: Asian/Pacific Women's Network—Los Angeles, Scholarship Committee, 2818 Grayson Avenue, Venice, CA 90291, or by calling Mary (213) 489-6146 or Meibao (213) 821-0326.

MCAT Registration

Candidates planning to take the September 13, 1986 Medical College Admission Test are **STRONGLY URGED** to register or pick up a registration packet before they leave campus for the summer. Registration packets are available in the Career Development Office.

New Humanities Courses

Lit 180—The French Short Story. The reading shall cover a range of stories from the Middle Ages to the twentieth century illustrating the evolution of the genre from the straight tale to the complex modern short story and stressing the specificity of the short story in relation to the novel. Readings are in English but students may read the French originals instead. The class will be taught by Annette Smith and it *will not* receive advanced humanities credit.

Lit 180—Modern/Post Modern. The course will cover a sampling of Modern and Post-Modern Fiction and social and literary criticism. It will also consider other art forms, including architecture. Taught by David Smith on T 11-12:00 and Th 10-12:00.

Intellectual Origins of Fascism. The course will examine philosophical, historical, and literary texts that contributed to the formation of fascism, with special attention on underlying premises that unify apparently diverse or competing doctrines. Readings that will include Nietzsche, Sorel, Gentile, Mussolini and literary figures such as Yeats and Pound. Instructor is Lawrence Rainey and the class will meet TTh 1-2:30.

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Another Final Offer

The Poetry Workshop that meets in the Y Lounge on the second and fourth Tuesday evenings of each month now has copies of its book *Another Final Offer*. They are on sale for \$2 (cheap) and are available in the Y Office. New members are always welcome. Bring your poetry to share.

Club Reports Due

To all clubs and ASCIT publications: If you are a new club, a report of this term's activities is due by May 30. If this is not turned in, you may lose funding for the rest of the year.

If you are an ASCIT publication, a financial statement must be turned in by May 30. If it is not you may sacrifice salaries and/or commissions.

Turn reports and statements in to David Bruning, 115 Page, 578-9971.

Cyderman's Fancy

The Caltech Folk Music Society's final concert for the school year will be in Winnett Center Lounge on Saturday, May 17 at 8 pm. Cyderman's Fancy will tickle yours with a blending of traditional English music and modern stylings. Tickets are \$6 in advance or \$7 at the door general admission, with discounts for Caltech students. Advance tickets available at the Caltech Ticket Office.

May Singles Dance

On Friday, May 16 at 8:30 pm, there will be a May Dance at the Neighborhood Church, 301 N. Orange Grove Blvd. While all ages are welcomed, it is mostly aimed at single people in their 30's, 40's and 50's, whether never married, widowed or divorced. The dance is run by an independent group, not church sponsored, and costs \$16 per person, including DJ'd music and wine, cheese, coffee and cookies. The dances by this group claim to attract mainly professional and business people from this general area. Call (213) 223-1130 for further information.

Career Counseling

Careers in Biology and Bio-Engineering—a career counseling program beginning at 7:30 pm on Thursday, May 22 at the Red Door Cafe. Undergrads and grads welcome. Sponsored by the Gnome Club and the Alumni Association. Refreshment will be served.

Senior Party at the MOSH's

The Senior Party at the MOSH's house will be Friday, May 23rd at 6 pm. Bar-B-Q, entertainment, and Hojo and the Blowhards with special guest star.

Volleyball Tournament

The Spring Term 1986 Caltech Open Volleyball Tournament will be held on Sunday, May 18 at the Gym. The tournament will be between randomly chosen triplet teams. Open to Caltech men and women. No advance registration is necessary. Come and play or come and watch. Registration and warm-up: 8:45 am. Tournament from 9 am to 1 pm.

Quotron Open House

Quotron Systems (an electronic stock quoting company) is having a company open house this Saturday, May 17, from 9 am to 2 pm. They are looking for engineers interested in hardware and software, and with some Unix and 'C' experience. The location is 12731 Jefferson Blvd. in Los Angeles (near Marina Del Rey). Quotron is looking for permanent employees and possibly some summer employees. Be sure to take your resume with you. For more information come to the Career Development Center, Room 8, Parsons-Gates.

MacValley Anniversary

The MacValley Users Group announced that its May general meeting will be held Tuesday, May 20, 1986 at 7:30pm in the cafeteria of Burbank High School at Burbank Blvd. and Third St. in Burbank.

Representatives from Apple Computer, MacUser magazine, and MacWorld magazine will be there to help MacValley celebrate its first birthday.

For further information please contact Ruth Stever, 848-1277, or write MacValley Users Group, Box 4297, Burbank, CA 91503.

Ebell Scholarships

The Ebell of Los Angeles is offering scholarships to single undergraduate students who: are residents of or are registered to vote in Los Angeles County; maintain GPA's of 3.25 or better; and who have financial need. In 1984-85 the scholarships were for \$2,750. Applications are available in the Financial Aid Office, Parsons-Gates room 10. Deadline is May 30.

CLASSIFIED

HELP WANTED—

RESORT HOTELS, Cruise lines & Amusement Parks are now accepting applications for employment! To receive an application and information, write: Tourism Information Services, P.O. Box 7881 Hilton Head Island, SC 29938.

EXCELLENT INCOME for part time home assembly work. For info, call 504-641-8003 Ext. 8738.

THE CALTECH Y is looking for someone to perform routine repairs for its fleet of five vehicles, 1-2 hours a week. Pay based on experience. For more information contact Ralph Wolf at the Y, x6163.

FOR SALE—

MUST SELL. BEST OFFERS! Hewlett-Packards **POWERFUL HP-41CX** Handheld Computer, HP-41 Card Reader, HP-IL (network) Module, HP-IL/RS-232 Interface, HP-41 Extended I/O Module. Like new. **Now selling individually or as a set.** Call Paul: 714-985-4911.

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