Institute Changes Patent Agreement

by Castor Fu

This year's Caltech Catalog contains the Institute's first effort to change the Computer Science policy on student-written software. The new Student Patent and Computer Software Agreement replaces the old phrase "inventions" with an updated "inventions and computer software." There is also an important new clause added in:

2. The Institute agrees that rights of all other ... computer software or written by me with the use of Institute facilities are to be retained by me, except for computer software written in connection with or used in the education program of the Institute, for which the Institute shall obtain an irrevocable royalty-free, non-exclusive license, with the right to grant sublicenses, for any purpose whatsoever.

The intent of this paragraph, according to Ed Ansell, Caltech's patent attorney, is to protect the Institute from any potential claims by students making small contributions to software projects and then deciding to force the Institute to pay royalties. An example of this kind of "courseware" would be microcomputer diagnostics programs used in the physics laboratory.

Lyman Bonner, the registrar, said that another consideration was all to prevent potential legal ownership over such issues as the situation involving the program SMP, which, after over two years, is still in the courts. Unfortunately, examination of several hypothetical situations reveals several flaws in the new agreement. As pointed out by John Besham in a recent Tech article, general purpose computing facilities are extremely limited, and almost all usable computing is obtained through classes or faculty-sponsored research.

Even the house IBM PCs are under the jurisdiction of the Dean of Educational Computing and, under a broad interpretation, fall into the class of "in connection with the educational facilities of the Institute." Thus, until more popular machines than the data analyzers become available, virtually all independent student computing can fall under the jurisdiction of the Institute.

Perhaps the Institute deserves to receive the copyrights of programs posted by students using Institute facilities, but, on the other hand, one could just as easily argue that the Institute has rights to a book written using campus word-processing equipment.

Although one may think this is fairly harmless, several classes here, such as CS 270, Computer Aided Design, are geared towards writing software which clearly has potential commercial use.

It would be frightening to think that the Institute would deliberately exploit the students through such classes. However, the possibility does exist.

A computer aided design package is currently distributed by UC Berkeley for a nominal fee to education institutions, and for forty thousand dollars to corporations. It seems plausible that such a package could be the foundation for a startup company, but if it faced competition from CIT, it could have serious problems.

It may be best to leave distribution policies up to the student and the Institute on a case by case basis. Furthermore, there is nothing to prevent cases of copyright piracy incurred through use of the software.

Mr. Ansell, according to Mr. Ansell, such disclaimer are included on software distributed outside the Institute, but no such protection existed on software distributed internally.

Seitz Talks on Supercomputer

by Lily Wu

Charles L. Seitz will begin this year's Ewart C. Watson Lecture Series on Oct. 17 with a talk on "Concurrent Computing." Seitz is a Professor of Computer Science here at Caltech.

The talk will deal with both the technical and practical aspects of concurrent computing. The idea behind it is to have many processors working on a problem at the same time so the problem does not seem to take too much longer to solve.

Most processors now are sequential in meaning that they work on one problem at a time. Professor Seitz has developed a concurrent processor at Caltech called the Cosmic Cube.

The Cube is comprised of 64 small computers which can all work simultaneously on parts of a large problem. The 64 units are linked together with a communication network. This distinguishes the Cube from parallel-processors, which can also deal with problems on a problem concurrently.

The separate units of a parallel processor usually do not communicate with each other, but only with a central processor. The communication network greatly increases the number of applications which the Cube can be used for.

Problems which can utilize such a "supercomputer" are usually ones involving a highly repetitive numerical process. One example is that of any problem including differential equations.

Professor Seitz will also deal with some of the practical aspects of concurrent computing. The Cube, for example, has a communication network and has the capability of 64 separate computers. It also operates between 5 and 10 times faster than a VAX 11/780 system which is a currently popular system used by scientists and engineers.

The Cube is physically small and can be expanded indefinitely in terms of extra processors. However, the Cube is probably only an indication of the supercomputers to come. It is a "scale model."

Other possibilities for further applications, and considerations for practical realizations of concurrent computing will also be discussed at the talk.

The talk begins at 8 p.m. on Wed. Oct. 17 at Caltech's Beckman Auditorium.
More Tolerance

More Tolerance

The Caltech Y Fly-by
Friday ... October 12
Noon concert, Genghis Khan, new wave with a twist. Noon on the Quad.

Sign up today for Philharmonic trips which will be on Wednesday October 17 or Friday October 19.

Saturday ... October 13
Sailing, if you signed up and won (check at the Y office), Today is the day.

Monday ... October 15
“The Strategic Defense Initiative,” Dr. Gerald Young, independent advisor for the Strategic Defense Initiative, Ramo Auditorium, 8 PM.

Wednesday ... October 17
 Noon Update, “Chemistry and Microphysics of Cloud water Acidification,” Michele Hoffmann, Woodward Clubroom 1 noon, bring a lunch and a friend.

Philharmonic Trip, the program consists of works by Mozart, Stravinsky, and Strauss (see above).

Friday ... October 19
Noon Concert, to be announced.

Philharmonic Trip, the program includes works by Dvorak, Liszt, and Casals (as above).

For more information contact the Caltech Y office at 356-6163, or just drop by.

seems that there are some who believe that hate and prejudice are valid reasons to ignore the rights of others.

I find this attitude difficult to accept. The questions of individual and social rights have never been clearly resolved, but my favorite guideline is what Lincoln once said in a speech whose name-I-forgot: “One man’s rights end where another man’s nose begins.” I don’t care what anyone does, as long as he doesn’t hurt me or my friends, so long as he does not have a complaint about CLAGS posters, he should tell his house president. More Tolerance

More Tolerance

More Tolerance

To the Editor:
I was genuinely surprised this week when I encountered a little bit of nastiness that I thought this campus had outgrown. It seems that some evilly offended people have taken it upon themselves to remove certain “distasteful” posters from legitimate posting areas. I then restated the controversy of two years ago, but new students should be informed (and some old students reminded) of what was decided as a result of all that bothered.

Two years ago, the newly formed Caltech Lesbian and Gay Society (CLAGS), in an effort to make its existence known, distributed a large number of posters and flyers on campus. Well, some people got offended and ripped down or burned many of the posters. Understandably, CLAGS objected to this vandalism. Conservative factions objected to CLAGS’ objection, CLAGS’ posters, and even to CLAGS’ existence in general. The fly-by-night National Society-clouded the controversy with their own satirical posters and outspoke views.

After a good deal of debate by means of this publication, the campus got tired of the whole issue.

CLAGS cut down on the number of their specific flyers (they couldn’t afford to make that many for long anyway), fewer post their vandalized posters, and the IHC quietly said something about the sanctity of bulletin boards.

It seems that now everyone should be happy, but I am still dissatisfied with the situation. The only reason CLAGS posters haven’t been vandalized much until recently is that CLAGS knows where not to waste posters. A poster (not necessarily CLAGS) in Fleming still won’t last more than five minutes, even on the supposedly sacred bulletin board.

I feel that somebody’s missing the point, so please indulge me and allow me to rant for a bit.

People have a right to communicate. Freedoms of speech and expression are guaranteed in the Constitution. Posters cost money and time to distribute, and are important to the people who make them.

Not only is tearing down other people’s posters generally uncivil, but it is also a violation of the Honor System.

Caltech is one of the most intelligent communities in the world. This being true, I would expect reason and compassion to be the rule on campus. But I am continually amazed at how many Techers refuse to think about the motivations or consequences of their actions. It seems that there are some who believe that hate and prejudice are valid reasons to ignore the rights of others.

I find this attitude difficult to accept. The questions of individual and social rights have never been clearly resolved, but my favorite guideline is what Lincoln once said in a speech whose name-I-forgot: “One man’s rights end where another man’s nose begins.” I don’t care what anyone does, as long as he doesn’t hurt me or my friends, so long as he does not have a complaint about CLAGS posters, he should tell his house president.
Better Food at Caltech?

To the Editor:
The food situation at Caltech needs improvement. We deserve better food for our board contract money than we are getting. A small, readily accessible food source would be useful, for example for quick midnight snacks. Therefore, I offer two separate but not mutually exclusive proposals to deal with the dearth of good food.

First, our food service for lunch and dinner is probably less than adequate. In my opinion, this is a symptom not of Servomation in particular but of the structure of food service contracts in general. As it stands, the food service company has a captive “audience” for one year. Whether students like the meals or not, whether they even eat the meals or not, they have to pay for them. Thus, the food service company has only a limited incentive to provide good food caused by the annual review.

My proposal is that future food service contracts should be negotiated something like as follows. Caltech auctions the right to service Caltech for one year. Then, Caltech should issue a booklet of meal tickets to each student at the beginning of each term (to be handed out when students check into the student houses or register). Students would buy what means they wanted with the tickets, one ticket per meal. Unused tickets could be redeemed by the student at the end of the term for cash. The food service company would make money by redeeming the tickets that they received for meals sold. The food service company would have to bring in more in meal tickets than the cost of the right to service Caltech plus the cost of the meals. The food service would have to provide good food because if they didn’t then students would stop buying meals with the meal tickets.

I believe an arrangement along these lines could be negotiated with some food service type company. It would be preferable to the current

continued on page 5

Factual Corrections

To the Editor:
Sam Finn in his “emotionally charged” article entitled “Outrage” begins his “criticism” of my article entitled “A Dismal Shame” by stating “Like Reagan, Pitts has lost all grasp of reality when he writes ‘...We now enjoy the highest percentage of per capita employment ever in a peacetime economy’” and notes in support of his claim the current unemployment rate of 7.5% comparing it to past rates which have been lower.

Unfortunately, Finn’s accusation rests upon a misunderstanding that per capita employment is measured by the unemployment rate. The former is the ratio of the number of people employed to the total population and the latter is an attempted relative measure of the percentage of people either shifting jobs, seeking jobs, or “unable” to find jobs compared to the total labor force.

The fact is that we are indeed enjoying right now “...the highest percentage of per capita employment ever in a peacetime economy.” However, Finn’s list of unemployment figures are instructive.

As he states: “The facts: currently unemployment [should read unemployment rate] is 7.5% When Reagan took office in 1981, unemployment was 7.6% and when Carter took office in 1977 unemployment was 7.5%.

continued on page 8

Buy Caltech Cards
and save 20%

CALTECH’S
BURGER CONTINENTAL
will offer you a deal you can not refuse.

Buy Caltech Cards
and save 20%
Humans at Caltech

To the Editor:

In my article of two weeks ago, I made several very blunt statements about the Caltech Humanities and Social Sciences Division which I did not intend to make, and the general impression the article gave was of derogation.

This was unintentional, and was due to my late-night attempt to change my usual overly pedantic writing style into something more flippant.

I feel that, because of the very small size of the Institute, it is not practical to expect the Caltech H&SS Division to present the same range of courses as a much larger liberal arts university, but that is still no reason to accuse the Division of being "the pits."

As Dr. Benton pointed out in his rebuttal to my article, Caltech has an excellent roster of faculty, and I would like to emphasize the extremely high quality of instruction in many H&SS courses.

Perhaps this was precisely the point my previous article was trying to make: that although Caltech's H&SS division is small, and possesses some drawbacks because of that, the quality of the faculty is among the best available anywhere, and many of the courses offered are superb.

In addition, there are many professors who are willing to sponsor independent, self-defined work of almost any reasonable sort for those students who are seriously interested in learning material which is not taught in a formal course. The existence of this possibility could largely negate the criticism about the size of the Division.

The only major criticism I have of the Caltech H&SS program is that the constraints imposed on the students regarding the courses they may take are far too extreme. Surely it is preferable to have students take a somewhat narrow range of courses, but profit highly from them because they are interested, rather than having students learn a wide range of uninteresting (to them) material badly.

Under the current Institute policy, each student has a very narrow range of choice in the H&SS area, since only two to five of the many courses offered each term will both fit his schedule and help satisfy his remaining course requirements, effectively removing most of the available courses from the catalog temporarily.

Of course, a student can wait a year or two to take a particular course, if he is interested in it, but if he is not, it means planning a particular course of study in the H&SS area, he may be simply choosing his classes from whatever fits his schedule. Because of this, he may be forced by the stringent requirements to take a class which he finds much less interesting than one which also fits his schedule.

This has led to a situation where students' morale is very much depressed, since although few people mind taking required courses overmuch, no one wants to have to give up a more interesting course for a required one.

I assume that the strict requirements were instituted to counteract the instances of students taking only a narrow range of courses in the H&SS, and that something like them are probably necessary, but could there not be an alternative?

Perhaps a student could be required to submit a list of H&SS courses he intended to take, and have that list (which could correspond to the current strictly specified portions of a student's H&SS curriculum) approved by the H&SS division, thus insuring that each student took a sufficiently broad range of courses.

The rest of the student's H&SS courses (corresponding to the one third fraction that are currently unspecified) could be completely elective, and could be fitted in wherever schedule conflicts ruled out one of the planned courses.

—John Beahan

La Présidente
S'il Vous Plait

To the Editor:

I wish to correct an inaccuracy in Steve Pitts' September 21 editorial in the Pacifica.

Reference is made to M. François Mitterrand as the "Prime Minister of France.

M. François Mitterrand, in fact, is President of the French Republic. M. Laurent Fabius is the Prime Minister.

Cordialement,
—Pierre Grandier
for the Francophile Club

Texas Instruments
Get to the answers faster.

What you need to tackle the higher mathematics of a science or engineering curriculum are more functions — like definite integrals, linear regression and hyperbolic functions — than the one third fraction that are currently unspecified. You can work faster and more accurately with the TI-55-II, because it's preprogrammed to perform complex calculations — like definite integrals, linear regression and hyperbolic functions. It makes the process of using the TI-55-II simple, and shows you how to use all the power of the calculator.

Get to the answers faster. Let a TI-55-II show you how.
Great White Man

To the Editor:

Regarding the film "The Gods Must Be Crazy," would there have been pickets outside the Music Hall Theatre, so that I could have been spared the humiliation of sitting through that South African comment on society.

Yes, it was interesting to see the positive portrayal of the Bushmen living in a primitive communal society, free of conflict and with gentleness, sharing, and complete caring for each other. The rest was a disaster.

I had hoped the days were long gone when the GREAT WHITE MAN would be portrayed as so superior to the native Americans, or orientals, in this case Africans.

Yes, the whites outsmarted those Black Guerilla Devils, but only with the skill of the Bushmen. "Crazy" describes, rather kindly, the makers of the film.

-Margaret Katz

Errata

To the Editor:

Thank you for publishing my letter ("Outrage," 5 October, 1984). A typographical error appeared in the printed letter, and that error made a significant difference in the argument I accompanied. In the third paragraph on page 7, while discussing the OMB figures for percent change in after-tax income for the highest and lowest income brackets, the figures should read "...the percent change in after-tax income (adjusted for inflation) from 1980 to 1984 was -7.6% for the fifth of the American households with the lowest incomes and +8.7% for the fifth of the American households with the largest incomes"

Thank you for your attention to this error.

-Sam Finn

Page House
Better Than the Movie

By Nick Smith

Whenever a “classic” of any type is adapted into a medium other than the one for which it was created, the results (and the audi­ence) up so quickly that it was a few moments before all much of the audience realized that they were all total strangers to Bilbo. Enter Gandalf, and the adven­ture begins...

If you’re not familiar with the basic story of The Hobbit, I’m afraid that there’s no way to condense it into this review. Suffice it to say that it’s a quest story that is the prototype for much of modern fantasy, and that it’s a lot of fun. The point is that this stage adaptation, with giant puppets being mov­ed around by shadowy figures in the style of Japanese pup­petry, succeeded far beyond what the Rankin-Bass high­budget TV movie ever achiev­ed. The stage was ever dream­like, where the animated ver­sion was merely a beginning, due to things done wrong.

The dream-like feeling of theater adaptation The Hobbit was enhanced by the lighting, which was dim in spots except for the UV beam­ed at various luminous parts of puppets and props, creating the image of glowing eyes, webs and weapons. This was well done, and made eyes and weapons more real and more nightmarish at the same time.

The adaptation was, of course, simplified. You can’t convert a full-length novel into a relatively short play without that. I must admit, though, that they got the feel of it right. The only translation odd­ity was the loss of a minor punch-line, when Bilbo’s little sword, Sting, comes out as Dart (apparently a result of translation to French and back).

The puppets themselves were a masterpiece. It’s easy to see why the puppeters allowed the audience to come up on the stage after the performance. They were proud of the pup­pets, and justifiably so. The main characters were finely detailed puppets. The mass of dwarves were mostly hats and noses, arranged so that they could be manipulated in groups by a single puppeteer. The goblins were wonderful; one of them wore a neckace made of a hand, an unnecessary detail that filled in just how nasty the goblins were. The elves were done as faces with ethereal bodies, impossibly tall and wispy. The trolls were living stone. Bilbo was a Hobbit, right down to his furry toes. Ah, but Gollum—now there’s a masterpiece of a puppet! He looked so degenerate and deranged, a warped little thing in search of his lost soul, and what he valued in place of it.

Anyway, if you didn’t go see The Hobbit, you’ve missed it. However, there’s hope, especially if the people over at OPE have any sense. It seems that The Theatre Sans Fil has plans to do an adaptation of The Lord of the Rings, and expect to be able to tour with it two years from now. Every ef­fort should be made to secure this puppet play for Beckman Auditorium when it becomes available. Theatre Sans Fil and their giant puppets were a delight to an audience of adults and children, and produced a wonderful play that I think Tolkien would have enjoyed seeing.

New York University Visits Your Campus to Answer Questions on the M.B.A. Program

New York University is an affirmative action/equal opportunity institution.

New York University
Graduate School of Business Administration has trained students for executive positions for over 60 years. A recent survey by Standard & Poor’s ranked New York University number 2 nationwide as the source of graduate students for chief executives in major companies. On Tuesday, October 16, an admissions officer will be on campus to discuss the quality and flexibility of the graduate business program. Check with the Office of Career Develop­ment for sign-up schedule and further information.

New York University
Visits Your Campus

To answer questions on the M.B.A. Program

Located in the heart of the Wall Street area, New York University’s Graduate School of Business Administration has trained students for executive positions for over 60 years. A recent survey by Standard & Poor’s ranked New York University number 2 nationwide as the source of graduate students for chief executives in major companies. On Tuesday, October 16, an admissions officer will be on campus to discuss the quality and flexibility of the graduate business program. Check with the Office of Career Develop­ment for sign-up schedule and further information.

The Thirteen Clocks

by James Thurber

Show times: October 19, 20, 21, 26, 27 at 8:00 PM
Matinee: October 27 at 2:00 PM

Dabney Hall Lounge—Caltech Campus—Pasadena, California

Tickets on sale now at 332 So. Michigan
(Also available at the Box Office)

Prices:
- General Admission—$6.00
- JPL/Caltech—$5.00
- General Student—$4.00
- Caltech Student—$3.00

Group Rates available—call (818) 356-4552 for information

Free Parking available at the corner of Wilson and San Pasqual
Things didn't start all right. In just my first two days here, I was ripped off of $120 and my car was broken into. So welcome to New York.

Well, that same day, my mother was getting worried to death when no one was answering the phone in the apartment that I didn't move into. So she, my dad, and my sister in Philadelphia drove up and to see them.

We did some hasty apartment-hunting that afternoon, and my car was broken into. Unfortunately, nothing of particular value was missing, and I was able to use for an eviction case and have begun to take some action myself to get my money back.

The next day, I talked to the superintendent and the landlord of the building. It turns out that the person who had agreed to sublet to me, who was in but had refused to open the door all morning, was basically the kind of tenant that they would like very much to evict. Since then, I've supplied them with evidence they'll be able to use for an eviction case and have begun to take some action myself to get my money back.

Well, that same day, my mother was getting worried to death when no one was answering the phone in the apartment that I didn't move into. So she, my dad, and my sister in Philadelphia drove up and found me here. I was so glad to see them.

We went out for a nice dinner at this Chinese restaurant that Ben had heard good things about but had never been to. It had a reputation among Columbia circles as one of the best Chinese places around; besides, Alan Alda supposedly ate there. We didn't see Alan that night, but the food was very good and the service was excellent, the best I've seen so far in this city.

The waiter even made sure that Ben, my friend here from high school, who seemed at this point to be the one person in the city of nine million who could help me out. I finally go through to him and arranged to crash on his floor for the next few nights. We moved most of my stuff into his room and other rooms in his dorm. Some things that I wouldn't need immediately we put back in the car to bring home, figuring that they could be mailed some other time.

I could finally relax for a moment.

Sponsored by Y
Ford took office in 1974 unemployment was 5.5%; when Nixon took office in 1969 unemployment was 3.6%; when Johnson took office in 1964 unemployment was 4.2%; and when Kennedy took office in 1961 unemployment was 6.6%; and so on. There were 10 million more employed in 1960 — nowhere near the 20% that Pitts claims.

Finn then states "Pitts' imagination again runs amok when he quotes figures for inflation and unemployment (two topics in particular). The worst inflation seen in the Carter years [emphasis mine] was only 5.5% in 1980 — nowhere near the 20% that Pitts claims."

Inflation for one month of 1980 did reach 2% which on an annual basis comes to 24%, three times more than my rough figure. However, Finn's analysis here does deserve some credit, and I should have explicitly stated a broader measure of the Carter record, the enviable 11.8% that Finn quotes.

Finn continues with "The Reagan prosperity [finally, giving credit where credit is due] that Pitts speaks of is also false." He cites as evidence the Office of Management and Budget figures which "show that the percent of change in after-tax income (adjusted for inflation) from 1980 to 1984 was -7.6% for the fifth of the American households with the lowest incomes and -8.7% for the fifth of the households with the largest incomes."

If you're curious as to why Finn notes particularly the upper per centile and the lowest fifth of households, it is because overall, real disposable income per family was only 5.5% (adjusted for inflation and taxes) increased 3.3% from 1980. Finn also fails to remind you just how terrible the economy was that Reagan inherited, but that Finn can state in the very same paragraph that the after-tax, inflation-adjusted income for the wealthiest fifth of the households was much larger for the wealthiest Americans than for poor Americans.

However, to judge if this was unfair one should question seriously whether the taxes paid after the tax cuts are fair (i.e. for tax rates the upper incomes are still much higher.)

Moreover, since the upper income groups have been paying more taxes as the tax rates were lowered, several Democrats sponsored a bill to decrease the upper income tax rates.

Finally, Finn quotes the not unbiased Congressional Budget Office which he claims states "... 35% of the 1982 [emphasis mine] Reagan tax cut went to the wealthiest [whatever that exactly translates into] 5% of the taxpayers."

He adds "The redistribution of wealth involved here is staggering. How the CBO concocted such a figure [even Finn's tax evaluation scheme above couldn't produce this rabbit] is one example of hat trickery but Finn should state in the very same paragraph that the after-tax, inflation-adjusted income for the wealthiest 8.7% compared to 7.6% for the poor, from 1980 to 1984, then decry that "redistribution of wealth" — implying that the wealthy have benefited at the "expense" of the poor — is a whole new form of magic.

After all, how many rabbits can fit in a hat? Continuing his onslaught of excruciating logic, Finn then states: "It is pointless to go any further [quite true] — Pitts' article is so riddled with blatant falsehood that any conclusions he might draw could only be considered fantasy."

He adds: "Why this blizzard of facts, this torrent of figures? Because for the past four years the nation has been seized by a sleeping sickness — a willingness to blindly accept any falsehood, distortion, or manufactured fiction uttered by Ronald Reagan, and so concludes "How can this illness be fought? The only thing that can be done, and I do that now, is to shine the light of truth into the shadow of distortion."

About the prosperity we are enjoying, with a solidly growing GNP, falling interest and unemployment rates, growing personal income, Finn reminds us "We live in a Dark Age now — the light of truth is present but people refuse to see it."

Finally, the only outrage present in Finn's article entitled Outrage was not the slanderous "I say that Pitts would not know a fact if it came up and spit in his eye," but that I was misquoted: "Steve Pitts says that liberals 'refuse to learn from the facts'."

The line quoted originally read "I say that Ronald Reagan liberal opponents who refuse to learn from facts, slander him in every way possible...". In fact, I took great pains to point out that a whole wave of European Socialists, such as President Mitterand of France, have enviously observed the light of the thriving American economy with nearly seven million new jobs created.

They were once part of a "sleeping sickness" which overshadowed their economies — a loss of almost two million jobs due to their government directed programs to "save" them — but are now beginning to embrace that gem of prosperity: the free enterprise system.

No more rabbits out of a hat. —Steve Pitts
The Book of Dodd, Chapters I

...In the days of old, when waterpolo reigned supreme amongst the sports of the Beavers, the Big Tournament came into being. It was a good thing, dictated by the Lord Dodd. And, lo, all the recent victims of Beavers were summoned, and they came, from the wilds of Whittier, the vast spaces of Redlands, and the polluted air of Riverside. They all gathered thusly at the pool, as the sun broke the horizon and began its long journey.

The Lord Dodd had deemed that firstly, the Beavers should do battle with the Poets of Whittier. But the Beavers complained, “Surely, Lord, we should not do battle without the proper warm-up, for we are sluggish and drowsy.” “Nay,” spaketh the Lord Dodd. “Go, I say, and defeat thine enemy, for he is weary from his journey and will make easy sport for you.” And so the Beavers plunged into the cold water and prepared themselves for battle....

Long was the war, and it was fierce, for the Poets had a mighty warrior, and Paul was his name, and the Beavers strove mightily to contain him. Time and time again the Poets would attack, but the Beavers were proud and, inspired by the Lord Dodd's invocations, repulsed the enemy thrusts. Alas, finally, the Beavers grew weary. Their speed was decreased and their quickness diminished, and Poets, led by the mighty Paul, began to make killing blows. Eventually, only the young and inexperienced amongst the Beavers remained, and the Lord Dodd exhorted them on to victory and sent them out to do battle. Alas, the Poets took to them like wolves to sheep and the Beavers were thoroughly routed and driven from the pool. They hid in corners and in beds, in markets and in manananas, until the Lord Dodd deemed they should return....

Quietly, they snuck back towards the pool. In groups of two and three they came, intent upon revenge. And the Lord Dodd spoke thusly, “Thine enemy is at thy mercy, for I have laid him low by making him play two games in a row.”

continued on page 11
On Saturday, we played Redlands JV. JV my ass. These chicks were big! If they hadn’t been so worried about their makeup and coiffed (their words, not mine) blonde hair, they probably would have beaten us hands down. They must have figured that we were just a bunch of short wimpy engineers who had left our elevator shoes at home, because they started out real slow. We played like crazy, and they didn’t show anything until the end of the first game: we won, 17–15. Cris M block-ed the hell out of the ball and by Big Mo-ed the hell out of the ball and was hitting over their very big block. Nicole, our other middle blocker didn’t get much chance to block because the Reds took one look at her and hit into the net; and she played great defense all over the floor.

Weekly Sports Calendar

<table>
<thead>
<tr>
<th>DAY</th>
<th>DATE</th>
<th>TIME</th>
<th>SPORT</th>
<th>OPPONENT</th>
<th>LOCATION</th>
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<tr>
<td>Fri. 10-12</td>
<td>3:00 pm</td>
<td>Football</td>
<td>Redlands JV</td>
<td>Pomona-Pitzer</td>
<td>Caltech</td>
</tr>
<tr>
<td>Fri. 10-12</td>
<td>3:00 pm</td>
<td>Soccer</td>
<td>Clare-Mudd-Scripps</td>
<td>Pomona-Pitzer</td>
<td>C.M.S.</td>
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<tr>
<td>Fri. 10-12</td>
<td>6:00 pm</td>
<td>Volleyball</td>
<td>Whittier</td>
<td>Pomona-Pitzer</td>
<td>Christ College</td>
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<td>Sat. 10-13</td>
<td>9:30 am</td>
<td>Cross Country</td>
<td>Christ College</td>
<td>Christ College</td>
<td>Caltech</td>
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<tr>
<td>Mon. 10-15</td>
<td>4:00 pm</td>
<td>Volleyball</td>
<td>Pacific Christian</td>
<td>La Verne</td>
<td>Whittier</td>
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<tr>
<td>Wed. 10-17</td>
<td>3:00 pm</td>
<td>Soccer</td>
<td>Whittier</td>
<td>Whittier</td>
<td>Caltech</td>
</tr>
<tr>
<td>Wed. 10-17</td>
<td>4:00 pm</td>
<td>Water Polo</td>
<td>CS San Bernardino</td>
<td>Whittier</td>
<td>Caltech</td>
</tr>
<tr>
<td>Wed. 10-17</td>
<td>7:00 pm</td>
<td>Volleyball</td>
<td>CSSE &amp; Whitman</td>
<td>Caltech</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat. 10-20</td>
<td>10:00 am</td>
<td>Cross Country</td>
<td>Redlands</td>
<td>Caltech</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat. 10-20</td>
<td>1:30 pm</td>
<td>Soccer</td>
<td>Redlands</td>
<td>Cal State LB</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat. 10-20</td>
<td>1:30 pm</td>
<td>Football</td>
<td>Valley Nomads</td>
<td>Caltech</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat. 10-20</td>
<td>2:00 pm</td>
<td>Women’s Volleyball</td>
<td>Christ College</td>
<td>Caltech</td>
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</tr>
</tbody>
</table>

by Busy Sue

Last weekend was a big weekend for the Caltech Women’s Volleyball team. On Friday, we played LIFE Bible College. Then, on Saturday we played Redlands. Both matches we played out of our minds. On Friday night we finally got our act together. Our passing was good, our setters did well on Friday, but we didn’t perform because LIFE didn’t hit. Maybe they put the ball down too tough.

On Saturday, we played Redlands JV, JV my ass. These chicks were big! If they hadn’t been so worried about their makeup and coiffed (their words, not mine) blonde hair, they probably would have beaten us hands down. They must have figured that we were just a bunch of short wimpy engineers who had left our elevator shoes at home, because they started out real slow. We played like crazy, and they didn’t show anything until the end of the first game: we won, 17–15. Cris M block-ed the hell out of the ball and was hitting over their very big block. Nicole, our other middle blocker didn’t get much chance to block because the Reds took one look at her and hit into the net; and she played great defense all over the floor.

The major enemy this time was the Whittier course, not the other runners. Basically, you run around the track and the softball field first. This is a warm-up for the steady part ahead. Next go past the soccer field, up the small mountain, then try not to trip as you go down the far side. Now run back up...now down...now up...well, the good news is that you get to stop in five miles (three for women). More exciting is the knowledge that the League Finals will be held here next month. I’ll tell you more about it then.

Despite this severely challenging terrain, Caltech did very well. John Beck won the men’s race by a wide margin, though it was small compared to Jenny Haase’s victory margin in the women’s race. Everyone else did an outstanding job supporting these frontrunners. The men’s team devastated Whittier 20–35 and trounced L.A.B.C. 17–38. The women’s team still needs more runners for team scoring. Overall, it was a successful day.

Weekly Sports Calendar

<table>
<thead>
<tr>
<th>DAY</th>
<th>DATE</th>
<th>TIME</th>
<th>SPORT</th>
<th>OPPONENT</th>
<th>LOCATION</th>
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<tbody>
<tr>
<td>Mon. 10-15</td>
<td>4:00 pm</td>
<td>Football</td>
<td>Redlands</td>
<td>Pomona-Pitzer</td>
<td>Caltech</td>
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<td>Mon. 10-15</td>
<td>7:30 pm</td>
<td>Women’s Volleyball</td>
<td>Clare-Mudd-Scripps</td>
<td>Pomona-Pitzer</td>
<td>C.M.S.</td>
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<td>Pomona-Pitzer</td>
<td>Christ College</td>
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<td>3:00 pm</td>
<td>Volleyball</td>
<td>Pacific Christian</td>
<td>Christ College</td>
<td>Caltech</td>
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<tr>
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<td>4:00 pm</td>
<td>Water Polo</td>
<td>La Verne</td>
<td>La Verne</td>
<td>Whittier</td>
</tr>
<tr>
<td>Wed. 10-17</td>
<td>7:00 pm</td>
<td>Women’s Volleyball</td>
<td>CS San Bernardino</td>
<td>Whittier</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat. 10-20</td>
<td>9:30 am</td>
<td>Cross Country</td>
<td>CSSE &amp; Whitman</td>
<td>CSSE &amp; Whitman</td>
<td>Caltech</td>
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<td>Sat. 10-20</td>
<td>10:00 am</td>
<td>Soccer</td>
<td>Redlands</td>
<td>Redlands</td>
<td>Caltech</td>
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<tr>
<td>Sat. 10-20</td>
<td>10:00 am</td>
<td>Water Polo</td>
<td>Redlands</td>
<td>Redlands</td>
<td>Caltech</td>
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<tr>
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<td>1:00 pm</td>
<td>Fencing</td>
<td>Cal State Long Beach</td>
<td>Cal State LB</td>
<td>Caltech</td>
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<tr>
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<td>1:30 pm</td>
<td>Football</td>
<td>Valley Nomads</td>
<td>Valley Nomads</td>
<td>Caltech</td>
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<tr>
<td>Sat. 10-20</td>
<td>2:00 pm</td>
<td>Women’s Volleyball</td>
<td>Christ College</td>
<td>Christ College</td>
<td>Caltech</td>
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Excuse me, but I'm not sure I understand your request.
announcements

Material for the announce-
ments section of the Califor-
nia Tech must be submitted
typed or on with the An-
nouncement Form available
t at the Tech office by the
Tuesday before the Friday
of publication.

Computroll Money

A scholarship up to $5,000 for students enrolled in a computer science or computer technology program at a four-
year college or university is be-
ing offered by International Computer Programs, Inc. of Indiana
apolis, Indiana.

To qualify for the 1985-86 scholarship, a full-time student must be a sophomore or junior who is maintaining a “B” average and is in need of finan-
cial assistance.

Applications are available in the Financial Aid Office, room 10 Parsons-Gates. Deadline is November 15, 1984.

Out Of The Closet

Is there an original Get-
zyburg set in your closet? Do you have a collection of Champions rules hidden under your bed because you’re afraid your roommate will laugh at you? Do your friends think “D&D” is a knicky sex act? Well, listen. Fantasia, in the last sixth of the twentieth century, and you needn’t be ashamed of your per-
sonal preferences, pastimes or proclivities! If you like games, play them! Where? How about Clubroom 1, almost next Fri-
day night (tonight included) where you’ll find a wide variety of people loosely known as The Caltech Gamers. Most activity there centers on various fantasy and science fiction role-playing games, but it’s a good time to meet people and arrange to play other games at other times. The Gamers also have a large collection of simulation board-games that can be borrowed. Un-
grads, grad students, faculty, staff, alumni, friends of the club, and everyone are all welcome. A new series of Warlock fantasy role-playing just started, so it’s a good time to break in. Games start at 7:30 pm and run until people decide to stop, so just drop in after dinner, the ASCII movie, or whenever.

Habakkuk Dig-In

This weekend, Oct. 12-13, there will be a Dig-In in Habak-
kuk led by Paul Byer, professor at Fuller Seminary, John Skid-
more, and Chris Jacobs. This Old Testament prophet asks these questions: “Why does God allow evil?” and “Why do righteous men suffer?”

A Dig-In is a unique oppor-
tunity to study objectively a portion of the Bible. It begins at 7:00 pm in 210 Thomas.

Big Pennies

A talk by G. Lee Kuntz on “The American Large Cent” will highlight the October 17 meeting of the Caltech-JPL Numismatic Society. Large cents were minted from the ear-
ly years of the Republic until 1857 when the cent was reduced in size. Kuntz, a former JPL employee, is presi-
dent of Masterpiece Medallions and has authored several books on the history of American coins.

Selected topics will include the following:

1. The history of the American Large Cent
2. Series of large cents issued after 1857
3. The current state of large cent collecting

Seminars will be held in the Church Laboratory Building on cam-
pus.

Scholarships

The Scholarship Research Institute of Washington, D.C., an organization specializing in aiding students and their parents in their efforts to locate funds for college, is offering three (3) $1,000 scholarships. Applicants must be fulltime undergraduate students with a GPA of 2.0 or above. For application and information, you should write to:

Scholarship Research In-
stitute
P.O. Box 50157
Washington, D.C. 20004

Deadline for applications is December 10, 1984. Awardees will be notified by January 15, 1985.

Sukkot Party

Come celebrate Sukkot. Eat refreshments in a Sukkah and go swimming. Sunday, October 14, from 4 pm to whenever, at the Caltech Bayit—335 South Arroyo, Pasadena. Call 793-895 or directions. Everyone is welcome.

CDC Seminars

Attention all graduating students: remember that Cam-
pus Recruiting started on Mon-
day, Oct. 8. Just drop by the Career Development Center, Room 8 Parsons-Gates, for more information.

Each year the CDC gives several seminars on a variety of topics. The seminar schedule for ES/MS candidates is as follows:

Resume Writing: Mon.,
10/22, 1:30 pm; Tues., 10/30,
3:30 pm.

Campus Recruiting: Tues.,
10/23, 4:55 pm; Fri., 10/26, 1:20
pm.

The Assertive Interview:
Fri., 11/2, 1:30 pm.

There will also be a seminar for foreign students of all degree classifications about job search strategies other than campus recruiting. It will be held on Tues., Oct. 16, from 1-2 pm. All seminars will be held in Wimett Clubroom 1.

Missile Defense

Dr. Gerold Yonas, formerly a top-level scientist at Sandia National Laboratory and recently appointed chief scienti-
ﬁc advisor for the administra-

tion’s Strategic Defense Ini-
tiative Program, will give a presentation outlining the technical and strategic arguments in favor of the fur-
ther development of ballistic missile defense. His presenta-
tion will be in Ramey Auditorium on Monday, Oc-
tober 15 at 8:00 pm.

CAG Meeting

There will be a meeting of the Caltech Action Group on Sunday, October 14, at 7:00 pm in the Caltech Y Lounge. All CAG members please at-
tend. The meeting is also open to anyone else who is interested in current campus projects or programs, and all interested are welcome.

The Caltech Lesbian and Gay Society will meet again this Sunday at 2:00 pm in 210 Bax-
ter. Discussion will include plans for a dance on November 2, possible speakers for this term, and ways of promoting better understanding of bisex-
uality and homosexuality in the Caltech community. There will be lots of food, and everyone is welcome.

Space Resources

Mining the moon may be quite profitable in the near future, before the turn of the century. This will be the em-
phasis of a lecture entitled “Ex-
traterrestrial Resources” to be given by Dr. Al Hibbs of Jet Propulsion Laboratories (JPL) on Saturday, October 27, at 7:00 pm in the Von Karman Auditorium at JPL. The pro-
gram is sponsored by OASIS/L-5, the Greater Los Angeles Chapter of the L-5 Society. The program is free and open to the public. Call (213) 374-1381 for more in-
formation.

Watson Fellowships

Essays for the Watson Fellowships are due on Friday, October 19. Seniors interested in applying for these travel fellowships should talk to Gary Lorden in the Deans’ Office, 102 Parsons-Gates.

Want A Job?

The recruiting schedules go-
ing up on Monday, Oct. 15 in the Career Development Center, Room 8, Parsons-Gates, will be for the week of Oct. 29. Don’t forget to bring your resumes, one for each in-
terview you plan to make.