Nominations Open for the Richard P. Feynman Prize for Excellence in Teaching from the Provost

Nominations are now open for the second annual Feynman Teaching Prize, to be awarded to a professor who demonstrates, in the broadest sense, unusual ability, creativity, and innovation in undergraduate and graduate classroom and laboratory teaching. This prize is made possible by a gift of endowment by Ione and Robert E. Paradise, in appreciation of Richard Feynman’s contributions to excellent teaching, and consists of a cash award, set for 1994 at $3000, matched by an equivalent raise in the annual salary of the awardee. All professors and associate professors of the Institute are eligible. Nominations may be made by any member of the Caltech community, including faculty, students, alumni, and staff; nominees not selected in a given year will be considered part of the nomination pool for each of the next two years. New material is not required for renomination, but will be considered. Selection of the recipient will be made by a committee appointed by the Provost and consisting of three professors, one from each from the undergraduate and graduate student bodies. The committee chair and members will be rotated frequently to reflect all segments of the Institute. The Feynman Prize will be presented at a regular meeting of the Caltech faculty in the fall of each year. The Feynman Prize is named in honor of Professor Richard P. Feynman, Nobel Laureate in Physics, graduate of the Institute of Technology, and member of the faculty from 1947 to 1959. For more information, contact the Office of the Provost, Mail Code 206-31 or visit the Office of the Provost Online. Mail Code 206-31

CSS SPACE NEWS

by Ross Brown

Hello all! This week, in honor of the collision of Jupiter and Comet Shoemaker-Levy 9 (SL9 for short), We will talk about other things.

Another Broken Comet?

It seems that another comet is falling apart again, but the overwhelming media attention on SL9 has buried this “lessthansignificant” event. Periodic Comet Machholz 2 (1994q) is disintegrating. All in all, there are now 5 pieces of the comet, the brightest of which, fragment A, is 6th or 7th magnitude. The lesser pieces B through E range from 11th to 15th magnitude. One can see this comet in the pre-dawn sky. Reports have stated that the primary comet fragment A has a distinct blue-green coma that is about 15 arc-seconds across and an extremely thin tail extending about one degree to our west.

Ida’s Moon Named

The first moon of an asteroid ever discovered was recently named. Photographed this August by the Galileo spacecraft, Ida’s moon, now of officially named Dactyl by the IAU (International Astronomical Union), was seen 60 miles away from Ida. The orbital characteristics are difficult to determine, but it was confirmed that Dactyl was in fact orbiting slowly in Ida’s weak gravity. Un-known is how Dactyl came into existence. Theories range from capture to a cataclysm that spawned both at the same time.

The name Dactyl is taken from the mythological beings who lived on Mount Ida (the Dactyli) where the Mount Ida (the Dactyli) where the Dactyli protected Zeus (Zeus’s children by Ida. The Dactyli protected Zeus in some stories, and in others were Zeus’s children by Ida.

Magellan Gets Toasted

R.J.P. The spacecraft Magellan will plummet into the atmosphere of Venus on October 14th. What pieces are not vaporized in the atmosphere will hit the surface pretty fast. The destruction of the spacecraft will end one of the greatest and cheapest missions to come out of Caltech’s operating arm, JPL.

We conclude with an appropriate quote from Bob Dylan: “It’s better to burn out than to fade away”

For more info on CSS, e-mail css@caltech.edu or call 568-8028.
The '94 Election: A Commentary

By Alex Protopapas

Although this election year is not getting nearly the same level of media coverage as 1992, it should be considered of almost equal importance to our democracy. As California residents we will be voting for governor, U.S. senator, U.S. representative, insurance commissioner, attorney general, and a host of other local and statewide officials. The people we select for these positions will have a dramatic impact on public policy in California. In this article, I will discuss the proposed policies of Democratic candidates and their opposition. As you will probably surmise from what I have written below, I support the Democratic Party candidates; nevertheless, I have made every effort to insure that all the information I present about each candidate is factual.

Gore vs. Wilson

California has not fared well. In the past four years, 558,900 Californians have lost their jobs giving us an un­employment rate of 8.6% (the sec­ond highest in the nation). Despite California’s economic hardship, he vetoed defense conversion efforts. As an “education governor,” he tried to cut $2.3 billion from schools, cut programs for reading and school books, and “forgot” to apply for $43 million in school construction grants from the federal government. Every year he has been in office he has increased fees at state colleges and universities.

This has resulted in a 290% increase in community college fees. In addi­tion, he vetoed middle-class college loan programs. As Californians, we have been hit with a $5 billion deficit despite the fact that Wilson increased overall all state taxes by $7 billion.

Democratic gubernatorial can­didate Deborah Brown would like to reinstitute the California economy with an aggressive program that targets California industries. She plans to restructure the tax system to reward and encourage emerging indus­tries like biotech and high-speed transporta­tion with tax credits. Also, based in her economic plan are programs to retrain defense workers, help the ill­ness industry and public works projects geared towards rebuilding California’s infra­structure. She will improve California public schools by moving $411 million from non-education into class­rooms and by rewarding excellence in education with special funding for schools that improve their perfor­mance. At the level of higher educa­tion, she promises to freeze fee hikes, provide low interest college loans to middle-class families, and eliminate the higher fees that penalize commu­nity college students with bachelor’s degrees. Kathleen Brown balances the development of new state pro­grams with fiscal responsibility. She will audit every state depart­ment with a thorough performance review using a program similar to one implemented in Texas which saved taxpayers there $5.2 billion. She will also try to pass a “uniform law” that requires state agencies to prove their worth or be eliminated.

U.S. Senator Diane Feinstein is the only Demo­crat discussed in this article who is an incumbent. Every year, Feinstein already has a formidable record in Sacramento. She has supported and co-sponsored numerous pro-choice, environ­mental, and anti-crime bills. Fulf­filling one of her major campaign promises, she se­cured the passage of the California Desert Protection Act of 1993 in the Senate Energy and Natural Re­sources Committee. This legis­lative victory provided pro­tection for 4 mil­lion acres of desert wilderness and creates three new national parks: Death Valley, Joshua Tree, and Mojave National. She co-sponsored the Freedom of Access to Clinics Act which punishes those who use force or intimidation to stop others from entering medical clinics to obtain safe and legal abortions. She also co­sponsored the Family and Medical Leave Act which allows parents to take off work without worrying for their young children without fearing for their jobs. Feinstein courageously took on the NRA and aggressively fought for the passage of the first-ever ban on semi-automatic ass­ault weapons.

In her impressive record, Diane Feinstein faces a tough fight with opponent Michael Huffington who has vowed to “outspend her.” Huffington, who is a U.S. Con­gressman, was also first elected to Congress in 1992 after running the most expensive congressional cam­paign ever against fellow Republican Robert Logallomangano. He is now pro­jected to wage the most expensive Senate campaign in U.S. history against Diane Feinstein. During his two years in office, he has sponsored only one piece of legislation and has spoken on the House floor a total of 8 minutes. He opposes the California Desert Protection Act and has voted against any productive health care to all women. Given his record in Con­gress, Michael Huffington can be expected to work hard to keep his campaign promise: “I want a gov­ernment that does nothing.”

Carlos Moorehead is presently the editor and publisher of the Con­st­itutionalist, representing the Pasadena­Glendale area. Moorehead was ranked as the most conservative of all the members of the 95th by the American Jour­nal of Politics. He is also decided­ly anti-choice. In 1993, Moorehead voted to fund the national cam­paign to un­riminalize, HIV counseling, and toxic waste cleanup. In addition, he was one of only two congress­men to oppose aid to veterans irrad­

SEE ELECTION, PAGE 11

The California Tech

VOLUME XCVI, NUMBER 4

OCTOBER 14, 1994

Carlos Moorhead

Sanford Brown

Shay Chinn

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SEE ELECTION, PAGE 11
Women's Cross Country Looks to Finish Strong
by Dan Kleiman

The Caltech women's cross country team heads into the final stretch of the season and tries to take a step in the right direction with their meet tomorrow in La Mirada. The team tuned up for tomorrow's conference show down at the Southern California Invitational, held in Newport Beach.

Due to a variety of reasons, the women's team was without most of its top runners. Senior Tohe Corazzini and sophomore Caillin Henderson were held from the meet in order to rest them for tomorrow's meet, while Ginger Garcia was unable to run because of a leg injury. Competing shorthanded did not prevent individual Beavers runners from coming through. Fresh Sara Beeler ran a perfectly paced race, pulling in the leaders for over two miles until she took the lead with one mile remaining. Barbara continued to pull away until the last 70 meters of the race, when she made an ill-advised right turn. After frantic yelling by her teammates, Sara realized her navigational error but was too late to keep her lead, finishing only one second out of first place despite her mistake.

Next for the Beavers was freshman Karen Blezer and sophomore Rudihsa Reddy, with sophomores Heidi Ellenberg and Keely Walker rounding out the top five.

Tomorrow the team returns to the La Mirada course for the SCIAC multi-dual meet. This single meet is scored as a series of dual meets, to match each team against every other conference school one at a time. Because dual meet scoring keeps scores close, Caltech has a tremendous advantage thanks to their first two runners. With Henderson and Beeler leading the way, the Beavers look to finish in the top half of the conference. The regular season concludes in two weeks at the SCIAC championship.

The California Tech

Men's Cross Country Wilts at SCC
by Tom Drnacka

The Southern Cal College Invitational obviously placed very lowly on Coach Jim "Bama Blue" O'Brien's scale of importance for the Thursday before the Saturday race, he had the team mimick the staple workout of NCAA Division II national champions Adams State. O'Brien claimed, "The races will seem easy now because you'll never feel as bad as you do during this workout." I would say that most of the team agreed with him by the end of the day...until Saturday came along.

The long ride to Newport Beach began at 7:30am with most everyone still feeling with soreness in the calves, quads and hamstrings from Thursday. The temperature chose to rise very early and by race time, it had reached 90 degrees. To make things worse, the humidity was sitting in the single digit percent range. The race went as expected for Caltech given these conditions, with times 2 to 3 minutes slower than usual across the board. The lone bright spot for the Beavers was the return of a healthy Dan Kleiman who though slightly out of shape from 3 weeks off of running, turned in a 28: 17 for 5th place overall in the 55 person race.

This week, the team is looking ahead to the SCIAC 8-way dual meet on October 15th. The 8-way is the first of two meets which determine the final conference standing. A dual meet is run at a usual, but is scored one team versus another, forgetting about the runners from the other six teams. This is done for every pair of teams in the conference, and the team that emerges with the best record wins. Last year, Caltech was 2-5 at this meet, beating Whittier and Cal-Lu, and also have a legitimate shot at taking down a vastly improved Laverne team as well as Redlands. This largely rides on the hopes that Mike Davies and Schuyler Cullen will be healed from their respective hip injuries well enough to race. All will be settled at La Mirada Park this Saturday.

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The Tech needs your help!

Our Mirror editor, who compiles all of the announce ments for the back page, is now seeking to carry on the job. Roughly three hours per week, with three units of credit in PA15. Come on down and pitch in to help out the staff of the Tech!

Come to the Friday meeting, e-mail us at editor@tech.caltech.edu, or call us at x6154 any time.

The California Tech
Cool Code Rules.

Come to Microsoft and write the code of your life.

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See Career Development Center for details.
Sign-ups begin October 24, 1994.
Guidelines for Submissions.

Submissions are generally creative works, such as narrative, fiction, drama, poetry, artwork, or photographs. Emissaries are encouraged to submit to The California Tech. Most cartoons should probably belong in the Inside World.

1. All submissions must be by in the Friday preceding the issue in which the submission is to appear.
2. Submissions may not contain libelous material without consent of those being libel. It is the responsibility of the author(s) to check on this fact. Suspicious submissions will not be printed.
3. Submissions may not contain vulgarities. The editor has judgement on what constitutes a vulgarity.
4. Submissions must be turned in by e-mail, Macintosh disk, or 3.5" high-density IBM compatible disk.
5. All submissions will be submitted to the Inside World after submission unless explicit instruction is given by the author(s) to the editor.
6. The author must be part of the Caltech/JPL community. Certain waivers for alumni, friends of the community, etc. may be made at the editor's discretion.
7. The editor reserves the right to edit, shorten, disallow any submission, or take exceptions to these rules.

The World Inside is back!

Guidelines for Submissions.

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I'M PUTTING YOU IN CHARGE OF AN IMPORTANT PROJECT WHICH IS FINALLY FUNDED.

THANK YOU ALL FOR COMING TO THE PROJECT KICK-OFF MEETING.

WHAT DOES "TIP" STAND FOR?

IT'S SHORT FOR "TIP" PROJECT.

I NAMED IT "TIP" SO, DO YOU WANT TO JOIN?

ID RATHER BE YOUR ARCH NEMESIS.

I'M IN LOVE BUT MY HEART IS FULL OF BIRDSEED AND MY PANTS ARE GLUED GOOD. LUCK TO YOUR DOSS.

GOOD LUCK. HE'S A SOAP CARVING.

I FEEL LIKE I SHOULD BE DOING SOMETHING HERE.

I'VE GOT YOU SCHEDULED TO MAKE AN UNINFORMED DECISION NEXT WEEK.

THE TRICK IS TO KEEP A PROTECTIVE RING OF SUCK-UPS AROUND ALL TIMES.

DOES IT REQUIRE ANY SUPER-FAST MICRO-CHIPS?

GOOD LORD NO. DON'T BUILD ANY OF THOSE BY TUESDAY.

WHAT YOU R INTENTIONS ARE... BASICALLY, HOW REAL YOU REALLY ARE ABOUT ME.

I FEEL LIKE I SHOULDN'T BE DOING THIS RELATIONSHIP ON MY OWN.

00...

I'VE GOT YOU SCHEDULED TO MAKE AN UNINFORMED DECISION NEXT WEEK.

THE TRICK IS TO KEEP A PROTECTIVE RING OF SUCK-UPS AROUND ALL TIMES.

IT'S UNDER-FUNDED AND DOOMED. BUT I'VE GOT SOME GOOD INERTIA GOING AND I'M SETTING UP THE MARKETING DEPARTMENT TO TAKE THE BLAME.

WE JUST HAD A MEETING AND DECIDED TO CHANGE YOUR PROJECT SUBSTANTIALLY.

WE DIDN'T INVITE YOU TO THE MEETING BECAUSE THINGS WENT SO MUCH LUCKIER THAN ANYBODY HAD ANY ACTUAL KNOWLEDGE.

SO, WHAT ARE THE CHANGES?

IF I REMEMBER, I'LL LEAVE YOU A VOICE MAIL.

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October 14, 1994

No More Delays
No More Procrastination
No More Excuses. Yeehaw!

I came up with this great new system for banning my homework. I'll just let my testosteron... it's really annoying. I have to ban it too. I'm bannin... it's banned to improve the beauty of me.

I'm thinking of leaving college with a nice也能 fame. I bet that's better than just livin'.

Don't even have to get out of the truck. Besides, that's how I was raised.

I do find you stranger attractive.

The only problem is that you don't get to see those people talkin'.

I thought it would be more convenient to talk to the people I tallied.

What do you have around here?

Prenitals are the most convenient, don't you even have to put them on the truck?

It's amazing... even better than a pickup truck and a mule so I can plant after dark.

Life may have been more simple in the testerone days, but I couldn't resist getting my pickup started up.

Let's try again. Since I'm testerone free I may as well start it up. I may as well start it up.

When's the last time you had a beer?

I don't usually drink until I start talking again.

Why don't I drink until I start talkin' again?

Let it look like the fun is just stopping.

What a minute. Why aren't you talking to me?

What do you want me to say about this?

And people who don't bother to vote have no right to complain.

What not? It's obvious. I will vote and运动 to complain. I can't help it from the physical.

I never wanted to be anybody else's dish.

Decide that's how I want it. I have a vote and I have no right to complain. I can't help it. I'm physical.

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Like most crossnumberers, no entries begin with the digit zero. This problem concerns drivers Lloyd, Radika, and P.
J., three drivers who drove in a race. Lloyd was able to maintain a constant speed throughout; Radika ran into engine trouble after 18 laps and for the rest of the race had her speed reduced by 7 meters per second; and P.
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J., who started the fastest, crashed.

This problem is from Raymond Smullyan’s The Chess Mysteries Of The Arabian Knights. The entire book is a gem focusing on chess problems dealing with “retrograde analysis.” For those of you unfamiliar with this, it means that to solve the problem, you must make deductions about what must have happened in the past of this game. You may assume that all moves in this game have been legal.

Answers
1 QR-QN7 does the trick. Now Black is stuck in zugzwang in this symmetric position; he has nothing that can stop either B-N8mate or B-R8mate.

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ELECTION

Congratulations to Jonathan McDunn, who was elected ASCIT President. He will serve the remainder of the term of office.

The Bylaws Amendment, to extend voting eligibility on BOC-related Bylaws to all undergraduates, passed with 74% approval.

APPOINTED OFFICES

Several offices, including the position of Staff Recorder (who takes minutes at Board of Directors meetings), are open for appointment. See the material posted in the Houses and on the east side of Winnett (to the right of the ATM) for additional information. Questions should be directed to David Derkits, ASCIT Secretary, at dderkits@cco or x1402.

DUES AND ASSESSMENTS

The ASCIT Board of Directors is considering a resolution which would discourage dues or assessment increases through Bylaws Amendments during third term. This action has been taken at the request of the Financial Aid Office, as they need time to process such increases into the financial aid packages, which are finalized at the end of third term.

CLUB FUNDING

The Board of Directors will hold a budget meeting on Sunday 23 October for the purpose of funding clubs for first and second terms.

Funding application forms are available in the SAC mailroom, near the ASCIT copier.

PUBLICATIONS

- The little t and CLUE are being distributed.
- Copies may be obtained in the Deans' Office.
- The on-line CLUE will be activated by the end of next week. The CLUE will be accessible through the ASCIT WWW Page.
- The Big T (yearbook) has arrived and is being distributed through House secretaries.

MISC ANNOUNCEMENTS

- Flora Ho is looking for co-editors for the 1994-1995 CLUE. Interested undergraduates may send e-mail to floho@cco.
- ASCIT has given official recognition to the Common Key Committee.
- Penny Sherman has been appointed by the Board to represent ASCIT on the Women's Center Advisory Board.
- The next meeting of the Board of Directors will be held at 8:00 PM on Monday 17 October in SAC 64, the ASCIT Office.
- WWW: http://www.cco.caltech.edu/~as CIT.
- Copies of ASCIT Board Minutes are available by mail or e-mail free of charge on request to students, faculty, and administrators. Requests should be sent to Secretary, ASCIT 64-58 or dderkits@cco. The Minutes are also available on caltech.as cit.announce.

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Election

As Attorney General, he refused to make child rights cases. When he was in G.O.P. headquarters, the California State Police is looking for tutors.

The California Democratic State Senator Art Torres is running for the position of Insurance Commissioner. As Insurance Commissioner, Torres will push for a “Homemaker’s Bill of Rights” that will protect people from insurance companies that don’t pay up when California falls victim to major disasters like the Northridge earthquake. He pledges an “all out war” against high insurance rates, insurance fraud, and redlining. Art Torres has refused to accept campaign contributions from the insurance industry. As a state senator, he put committee briefing papers on-line on Compuserve and co-authored legislation to make the State Legislature computer accessible to voters. Unfortunately, I do not have much information on Torres’ opponent. To obtain information on a non-liberal candidate, contact the local G.O.P. headquarters.

The contrast between the candidates is perhaps nowhere more striking than in the race for Attorney General. On the issue of civil rights, Dan Lungren (incumbent) has a particularly miserable record. As Attorney General, he refused to file hate crimes, crippling the state’s ability to pursue civil rights cases. When he was in Congress, Lungren opposed making Martin Luther King’s birthday a national holiday and opposed reparations to Japanese-Americans interned during World War II. He is also strongly opposed to gay rights and has declared publicly that homosexuality is a “sin.” Lungren is so vehemently anti-choice that he earned the dubious distinction of being the only statewide official to be targeted for defeat by the California Abortion Rights League (CARAL). The state director of the Sierra Club dubbed him "one of the most hostile officials toward environmental issues that we have ever seen."

Tom Umberg, on the other hand, has worked hard for civil rights in the State Assembly where he passed tough hate crime legislation and fought for bills that outlawed job and housing discrimination on the basis of sexual orientation. He has the endorsement of CARAL which has given him a 100% positive rating. As an Assemblyman, he also worked hard to crack down on individuals who refuse to make child support payments. Umberg is a strong environmentalist who has the endorsements of the California League of Conservation Voters and the Sierra Club. Umberg’s tough crime stance has earned him the endorsement of the California State Police Association and the California Organization of Police and Sheriffs.

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The American Consumer business (MCI is continuing as a separate entity). The Per M. Derasse Conservation Concessions Scholarship are two $1,000 awards for study in con- core conservation for the 1995-96 academic year. Applicants must have been full-time and must be a resident of 190-95. The application, available at the Financial Aid Office, is due January 10, 1995. ACI Com- mittee is also offering one ACI James Instruments Students Award in the amount of $800, for original student research on nondestruc- tive testing of concrete. Applicants must ad- mit a technical paper describing the research. The award is open to undergraduates in engi- neering, and the research work must have been finished two years of the submission date. Completed technical papers must be received by ACI Committee no later than October 10, 1994. For more information, call the ACI Education Office, (626) 352-2200.

The Association of Former Intelligence Of- ficers of San Diego Chapter 5 announces the enrollement and offering of the Annual Lieutenant General Eunice T. Tug, Jr., USMAR, Memorial Scholarship. The scholarship is in the amount of $1,000. It will be in lieu of the previous $500 scholarship due to the prob- ability of a 1-000-500, all-essay on the topic of U.S. military intelligence and the role of Government's Intelligence Community play in supporting American business interests abroad. All members, students, and former members are eligible to apply. For more information, please contact your city. For all those interested, please contact your local chapter for more information.

Milton Bradley’s Pop the Pig, the game that won it all, is sponsoring a national search for the biggest “piggies” on campus. The competition is open to students, alumni, and employees throughout the country. entries must be nominated by their IAs. The grand prize winner will receive $5,000, the runner-up on campus party for 100 of their closest friends and a Milton Bradley prize pack. The winner of the grand prize winner will re- ceive $1,000. To participate, contestants must send 600-800 words essay describing why they’re proud of their “piggies.” For more information, contact your closest Milton Bradley location or visit the website. To enter the Pop the Piggy program, visit Fahrenheit 1330, 1330 Avenue of the Americas, N.Y.C. 10019. Don’t forget to have the RA sign the entry.

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October 14, 1994

Notices and Cosas

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From the Counseling Center

A self-esteem group will be offered to under- graduate students beginning October 13, 1994. Participants will explore personal at- titudes and beliefs which directly affect one's feelings about self and learn skills to in- crease self-confidence and self-esteem. The group will be limited to 8-6 members. Those interested should call Virginia at 818-395-8353 to arrange a meeting with the group leader prior to the group's first session to discuss the student's and the group's expectations and goals.

Attention Women Graduate Students—A new women's group is forming designed to help women examine a range of issues relevant to their lives and experiences. We will explore challenges women face in achieving self-balancing career and personal goals, and chal- lenges in professional or personal relationships. These and other concerns raised by group members will be discussed in a confidential setting. Interested group members please call Charlotte (818-395-8353) or contact the Counseling Center at 818-395-8353. The group will meet weekly on Tuesdays at the Counseling Center from 5:00 to 7:00 p.m. Fliers will be available to students only.

Attention: E-card club debate closed—Due to the hind of the budget, the Counseling Center is suspending the e-card debate which has been held each year since 1990. At the time, so we're sorry a young woman who would even had that wear a tie.

Attention all CLUE members—We're sorry the CLUE is now on-line in summer courses. You can access it within the Caltech Student Horizon Home Page, or by logging in and typing: http://www.cio.caltech.edu/~acis. Also, the DUSP Office will still be available to assist with any concerns. You can also send a note to them via e-mail: dusp@caltech.edu. (Please note: the system is only partially en- countered, by the way.) Enjoy!

The 1995 Elisheva Prize in Ethics Essay Contest, with awards totaling $10,000, is now open to all students currently enrolled at Caltech. Australia are unlimited full-time and an accredited college or university in the United States. The dead- line for submitting an original essay for the prize is January 13, 1995. The theme for this competition is “The Ethics of Public Policy.” Personal Responsibility and the Common Good” in any form and in any format. Essays must be submitted by May 15, 1995. Please contact the prize committee at the address below for more information.

The 55th Annual William Lowell Putnam Mathematics Competition will be given one week before the first day of the academic term. The competition will be held on Saturday, October 22 from 12:15 p.m. to 5:30 p.m. Please contact the prize committee at the address below for more information.

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CLUE request slip has been lifted—just go ahead and grab one of those slips you can use on the computer to get your questions answered. (Note: it is strongly en- countered, by the way.) Enjoy.

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