Tech SURFs to present research projects this Saturday

by Jim Cheng

As part of their Summer Undergraduate Research Fellowship experience, Caltech SURF students will be giving oral presentations on the research they have conducted over the past summer this coming Saturday.

This year, over 240 Caltech undergraduates participated in the SURF program and will soon report on the results of the research that they have conducted over the summer with their Caltech or JPL sponsors. Research projects to be presented include baseball statistics for relief pitchers, the SURFSAT communications satellite to be launched later this year, and the Chemistry Animation Project headed by Dr. Nathan Lewis.

The speakers’ presentations will also serve as the first round of competition in the Doris S. Persall SURF Speaking Competition, now in its third year, thanks to the contributions and fundraising of alumni and the SURF Board.

Caltech’s SURF program in now in its 17th year after it was started by Professor Fred Shair in 1979.

Projects include baseball statistics for relief pitchers, the SURFSAT communications satellite to be launched later this year, and the Chemistry Animation Project headed by Dr. Nathan Lewis.

SURF was loosely based on a prior NSF program here at Caltech, but incorporated an application process based on the grant-seeking process and special activities such as seminars and discussion series.

With 157 sponsors from both Caltech and JPL staff members at JPL, the SURF program offers students the chance to do research with their research sponsors in a wide variety of fields.

SURF opportunities also exist for students to work on projects in industry through the Small Business Industrial Associates program.

SURF students are selected each spring from a pool of applications. To be considered, applicants must have maintained a minimum of a 2.00 GPA and turned in their research proposals and letters of recommendation. These proposals are then reviewed by a board of Caltech faculty and JPL staff.

Students interested in participating in the SURF program next summer should stop by the SURF office or speak to one of the members of the SURF Student Advisory Council.

Cross Country Teams Blaze Into Home Stretch

by Brian Barris

It was true crunch time for the Caltech Cross Country Teams Saturday, October 14, in La Mirada Park. The men and women’s teams were separated from the pretenders, and the Caltech teams proved to themselves and the rest of SCIAC that they are definitely contenders this year.

The meet was the SCIAC Multi-Dual Meet, the first of the two meet seasons that will determine SCIAC finishes for the year. Scoring was done in a pairwise dual meet format, totaling each result as only those two teams were running.

In women’s team, placed fifth at the meet, and with sights set on a national title, were the three Amys: Aimes Pierce, Amy Dollard, and Amy Chang.

Each team has four student runner’s, and will prove fun for everybody involved.

College Bowl Returns to Caltech

by Mason A. Porter

Caltech will be holding its first intracollegiate College Bowl Competition since 1988 on Saturday, October 21. It was organized by Craig Leff who started by Professor Fred Shair launched in 1979. Students interested in participating in the SURF program next summer should stop by the SURF office or speak to one of the members of the SURF Student Advisory Council.

College Bowl will take place in SAC 13, SAC 15, and Winnett Club Room 1. All Techers are encouraged to attend and root for their favorite team and terrorize their least favorite, although propositions will not be provided and probably should not be even attempted. Saturday should prove fun for everybody involved.

The competition will feature both a morning and an afternoon round robin. The winner of each will then face each other at about 4:00 p.m. to determine the winner of the entire event.

Six teams are scheduled to compete in the first round. The following morning schedule was valid as of Tuesday evening: Four Moles and a Funeral, Dosa Dudes, The Usual Suspects, Free Radicals, ME Grads, and Rudolph’s. The competition begins at 9:00 a.m. and is expected to last for about three hours.

Starting at 12:30 p.m. seven more teams will be competing in the second round robin tournament. As of Tuesday evening, the teams scheduled in the afternoon were: Steuben House, The Four Horsemen of the Apocalypse, The Possibles, The Damned Scourves (and a Flem), The Barking Spiders, The Herpethodes, and Rudolph 1.

College Bowl, reminiscent of Jeopardy, is similar to Science Bowl, in which many college students compete while in high school.

The main difference is that College Bowl has a more eclectic nature, thereby enhancing the chances of success in the competition for those who have less knowledge of science.

Each team has four players. College Bowl is played in two halves, each of which is about seven minutes long. The are two types of questions: toss-ups involving both teams as well as bonus questions worth various amounts of points for teams that answer the toss-up questions correctly. If the two teams are tied at the end of the game, there is a sudden death period to determine the winner.

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College Bowl will be held on the same day as the first round. The following morning schedule was valid as of Tuesday evening: Four Moles and a Funeral, Dosa Dudes, The Usual Suspects, Free Radicals, ME Grads, and Rudolph’s. The competition begins at 9:00 a.m. and is expected to last for about three hours.

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Chickens of the World: Unite?

On Tuesday October 17, I went to the panel discussion in Dabney lounge on "Environmental Racism, Sexism, and Other Forms of Oppression" (sponsored by the Caltech Y). I found the discussion very informative.

There were four speakers: two who spoke about animal rights and two who spoke about environmental racism. The first speaker gave a slide presentation about animal rights and feminism and the relationship between the two. The presentation consisted mostly of slides showing cartoon depictions of animals in high heels and "pornographic poses" and explicit photographs of women's sex organs garnished with various types of food. The conclusion of the talk was that our society "fragments" animals and women in many of the same ways and that speciesism and sexism are somehow variations of the same type of oppression. The other animal activist spoke about the plight of chickens. Her talk consisted mostly of horror stories about how the poultry industry treats chickens. She referred to poultry farms as concentration camps and described how genetic homogeneity of farm chicken (net photosynthetic production - the amount of energy produced by plants) by paving over land, changing forests to farmland, etc. As population concentration and consumption increase, we will use up more and more NPP. Unfortunately, since NPP is the food that all the animals on the planet (including us) share, if we use up 100% of NPP, there will be no food energy to support any other species. Since we depend on other species for our survival, this would be a bad move. In fact, using 100% of NPP would be such a bad move that it would probably kill off the entire human race. Ophuls and Boyen note in The Politics of Scarcity Invited, we are rapidly approaching the Earth's limits. We already use up 40% of terrestrial NPP (net photosynthetic production) to humans and waste sites are disproportionately located in minority neighborhoods (even after normalizing for income). They spoke at length about the effects of different types of pollutants on the affected populations and concluded with a description of their legal and grass roots efforts to combat environmental racism. The examples they used came from Los Angeles county which made their case even more poignant.

I came away from this discussion feeling the same way I do every time I see the ridiculous signs on the 110 freeway declaring South Pasadena the most endangered community in America. I find the signs somewhat amusing because they are so absurd considering what goes on in some industries today. Instead of extending I-110 freeway declaring South Pasadena where multiple freeways cruise through neighborhoods and violence, drug addiction, and poverty are endemic. Similarly, I find it ludicrous (and maybe even a bit racist) to equate the plight of poor African American or Latino living next to a toxic waste dump to an overweight chicken. Nonetheless, this is not an attack on technology as shown by Sagan's claim that we have the audacity to suggest that chickens were dumber (and therefore not entitled to rights) than chimpanzees. She countered Sagan's claim with anecdotal evidence of chicken intelligence and chicken language. In fact, using 100% of NPP would have to face the problem. We can either do it now, while decreasing consumption will be relatively easy, or in the future, when we can't.

The final speaker (a Latina speaking about environmental racism) was impressed by the passion with which the different speakers presented their top­

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The California Tech

October 20, 1995

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Core Curriculum Changes

by Dave Stevenson

The Caltech faculty is working on a major change in the set of courses taken in the first two years that the institution requires all students to graduate. Taken together, these courses constitute what is called the Core Curriculum.

The change in the Core is likely to be the beginning of the largest change in the structure of Caltech education in decades. It will be an evolutionary process rather than revolutionary, so not all the changes will be implemented at once, but it is an attempt to recognize that the nature of science has changed in the decades since the current core was formulated. It will also attempt to address shortcomings in the coordination or coherence of core courses.

My purpose in this article is to explain why this is happening, what has happened thus far, and what will happen in the coming months as the all-important details of implementation are worked out. You have the opportunity to provide guidance and express opinions on this process, as I will be doing in this article.

Caltech faculty, like Caltech students, do not have a monolithic view of what the core should contain and accomplish. Certainly the current core is strongly oriented toward the acquisition of skills, and the large enrollment of core courses (CS1 and ChemA135) shows that there is widespread acceptance of the importance of basic tools, no matter which option is chosen.

But should the core merely be the acquisition of these tools? Regardless of one's view on the success of the core curriculum, there is no doubt that the character of science has changed since the post-Second World War model (Scholastic Man to Physico-Dominaclion). We are now in an era when information-rich sciences have come to the fore and where computerization in the manipulation of large amounts of data play a greater role.

Biology is the prime example of an information-rich science and an area which many believe contains the most exciting challenges in all of science. Earth science (including sociological issues of environment, climate change, and so forth) is another information-rich course replete with exciting challenges.

Many faculty believe that the current core courses (including Physics, Chemistry, and Math) in Ecology and Evolution highlight the extent to which the core should not increase in total number of units required.

In 1991, a task force co-chaired by Barry Simon (professor of mathematics and theoretical physics) and Roger Blandford (professor of astrophysics) brought forward a proposal for implementing the somewhat peripheral but nonetheless important proposal to change the rules concerning AP credit in the latter part of the junior year. This proposal was implemented and the additional changes brought forward some specific ideas about how the core curriculum should change.

The proposed change would reduce the number of units (from 54 to 55, math by 9 units (from 54 to 45), and Chem 1/3 by 3 units (from 24 to 21), thus freeing up 21 units and providing the opportunity to insert some new courses. These new courses, whose nature and timing are yet to be determined, are commonly referred to as menu courses. "Menu" implies choice but there has not yet been any decision reached about the extent to which choice will be provided in each area. The menu proposal was accepted by the faculty and the implementation was left to a newly formed Core Curriculum Council, which I currently chair and which will include several students (as yet to be named).

The most important part of this Council is a Steering Committee, kept deliberately small since large committees would have difficulty getting things done. A smaller group would be more effective. The chairman of this Steering Committee is Jacqueline Barton (professor of computer science), and the membership of the Steering Committee includes Tony Leonard (professor of aeronautics) and possibly Richard McKelvey (professor of political science), Barry Simon (professor of mathematics and theoretical physics), and Roger Blandford (professor of astrophysics) and possibly a student member. The larger Core Curriculum Council, including current instructors of core courses, the steering committee will be doing the bulk of the work in defining the new curriculum, and will use the Council as a sounding board and source of advice.

Although the new courses are in some ways the most important challenge confronting the steering committee, we cannot proceed to define these courses until we figure out when they are likely to be scheduled. Will they show up in the third quarter of the freshman year or first quarter of the sophomore year or even later? To the extent that they may serve to guide students in their choices of options, an early scheduling is preferable.

On the other hand, the basic tools in Math, Physics and Chemistry also need to be properly covered. The committee cannot deal properly with the new menu until it decides on how to structure and modify the Core Curriculum, which is likely to be the subject of the initial round of ordering and course scheduling. But do you have a basis for deciding what is appropriate for the new menu? When I talk to students, I find most to be very conservative in their views on the core. And many express views about biology or other currently nonexistent courses or new options that have been debated by high school students or by existing course offerings. (There is no requirement that any of the new menu courses be even remotely like an existing course offering! I hope that you will approach this issue mindful of which aspects you are expert on and which you may have preconceptions about.

It is desirable and appropriate that there be some experiments in the new course menu. The most important changes are likely to be done in the Core revision. (An "experiment" something that can be abandoned without serious harm.) There are also many other issues not covered here (including the possibility of a small required course in scientific communication and the eventual need to look again at the humanities and social science offerings). But the most useful and pressing need right now is to bring students up to the existing core and the nature of the next courses.

Of course, there are also more detailed but nonetheless important questions about the suitability of particular faculty for teaching core courses. For student readers of this article, there are several ways that you can influence this process or promote discussion: (1) by sending me a message at dstevenson@caltech.edu. (2) By writing to The California Tech. (3) By expressing your views to the student representatives on the CCR (although their identity is not yet known as I write this).

I'll end on a mildly provocative note directed specifically at students. There are the most knowledgeable people on campus concerning the content (and (inherence) of the current core, and the national trend toward order and course scheduling. But do you have a basis for deciding what is appropriate for the new menu? When I talk to students, I find most to be very conservative in their views on the core. And many express views about biology or other currently nonexistent core courses that have been debated by high school students or by existing course offerings. (There is no requirement that any of the new menu courses be even remotely like an existing course offering! I hope that you will approach this issue mindful of which aspects you are expert on and which you may have preconceptions about.
**The California Tech - October 20, 1995**

**Y News**

by Donna Ebenstein

The Cabeech Y has another big (sort of) weekend planned for you:

**Friday:**
12:00 PM — Annie Rapid will be here for a noon concert at the Winnett Center for the conclusion of Kaleidoscope (aka Diversity Week)
1:00 PM — This week’s mountain biking trip has been changed from 2 to 1 PM

**Saturday:**
9:00 AM - 1 PM (if you’re still awake) — College Bowl in Winnett Lounge — if you aren’t signed up you can still come and watch!


10 PM — It’s the second Saturday Night Alternative Movie of the year in BI Auditorium. The title has not been selected yet, but if you want to know ahead of time you can call the Y at x1613 or stop by anytime.

If none of this interests you, we are still selling discount movie and theme park passes, as well as renting camping equipment. So get out and have some fun this weekend!

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**Frank Activity**

It's Nate's birthday. Find his ass.

**Exhibits**

On the cool and eccentric side is Hagop Sandalcljian's new sculptures exhibit at the Museum of Jurassic Technology. What's really talking about these sculptures is not their content (mostly Disney characters portrayed nor their content, but their size. Or should I say lack of size: all of Sandalcljian’s works can stand easily to complete detail and painting on the top of the point of a pin. Point blank, they make "the world's smallest engine" in Bridge look like a supercomputer to these characters. But the truth is, though this exhibit will be moving on to other locales on November 2nd, the Museum of Jurassic is filled with such unbelievable exhibits, with the museum dedicating itself to showings of unusual and unbelievable nature phenomena. It's worth a look and a laugh.

**Concerts**

David Bowie is coming back for a special Halloween show, but without his little syzyphian partner from NIN. The show is at 8pm at the Palladium on the 31st, but tickets go on sale on Saturday, 16am. Chris "somebody's whining" isaaq will be performing on Sunday December 3rd with the Wallflowers at the Pantages. Tickets are available through Ticket-Bastard.

**Shows**

The Karamazov Brothers are going to perform at the Beckman today, October 20th.

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**MOROCCO**

France invaded the Comoros Islands on Oct. 4. According to NATO, the NATO pilots were threatened by the Serbs who had trespassed the no-flight zone, and therefore had the right and responsibility to take legal military action. (NYT)

**Bosnia**

NATO warplane bombed three Bosnian missile batteries on Oct. 4. According to NATO, the NATO pilots were threatened by the Serbs who had trespassed the no-flight zone, and therefore had the right and responsibility to take legal military action. (NYT)

Moscow, Russia — Yeltsin’s only obvious political heir, Prime Minister Viktor S. Chernomyrdin, announced on Wednesday that he would not run for president. This leaves the future of Russia uncertain. Although no party is clearly more popular than the others, the Communists may do better than other groups in parliamentary elections this December. (NYT)

**Skopje, Macedonia**

The Macedonian Parliament named an interim president Wednesday after President Kiro Gligorov was forced. This breaks his 141-day silence on the topic. (LA Times)

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**Fiji**

Newark, New Jersey — Pope John Paul II arrived Wednesday in Newark for his fourth visit to the U.S. His 5-day visit to the East Coast will commemorate the 50th anniversary of the United Nations. (LA Times)

Pensacola, Florida — Hurricane Opal with winds reaching 145 mph swept over the Florida Panhandle Wednesday. Storm surges reached 20ft above normal tides. This is the worst hurricane to hit the area since 1969. Damages as yet unestimated. (LA Times)

Marin County, California — A wildfire fanned by warm, dry winds had destroyed at least 47 homes near Point Reyes National Seashore in western Marin County, California, Wednesday night. The blaze burned from the small Inverness Park southwest to the Pacific Ocean, and even fire fighters in Oregon and Lake Tahoe joined the battle against the fire later. (LA Times)

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**Tokyo, Japan**

Shoko Asahara, leader of Japan’s Aum Supreme Truth Cult, confessed the cult’s involvement in the poison gas attack in the Tokyo subway system earlier this year. However, cult followers insist the confession was forced. This breaks his 141-day silence on the topic. (LA Times)

Nadi, Fiji — The Fijian government has invited 28,000 Fijian Presidents for our Firm Systems technologies worldwide destinations. (NYT)

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**ADAM VILLANI:**

Power has a loyal KROQ listener since the mid-90’s, but the time has come when an endless diet of Green Day and their life has driven me to abandon them in favor of greener pastures a little to the left on the dial. That’s right, this white guy has turned from L.A.’s venerable so-called alternative station to L.A.’s home of hip-hop, KPWR 105.9 (or Power 106). Offbeat funk, rap, and long mixes of beast-driven house music are fine substitutes for the techno and industrial music that one can only hear on low-powered college stations (if you’re lucky) or the 80’s New Wave and technopop that KROQ saves for the occasional “Flashback Weekend,” and Power has some great, enthusiastic DJs. They’re certainly not perfect, though; they’ve picked up KROQ’s Poorman and there are still a number of songs that I find annoying, mindless, or just plain boring (case in point: Mariah Carey’s “Fantasy,” which sounds like mud and samples almost all of the Tom Tom Club’s great “Genius of Love.”) But I digress; the main point is that I feel KROQ’s betrayed me and its other longtime listeners who deserve to hear an actual variety of music.

To Die For

This new film from director Gus Van Sant (Drugstore Cowboy) and screenwriter Buck Henry (The Graduate) is a scathing indictment of America’s greed and TV culture which is sure to draw comparison to Natural Born Killers but is a much better movie. Oliver Stone’s Killers hit you like a ton of bricks, falling into the trap of thinking that the more vomited onto the screen, the better. To Die For is much tighter; the cinematic “tricks” accent the story rather than distract you from it, and Nicole Kidman, Joaquin Phoenix, Ileana Douglas, and Alison Folland give great performances.

Dead Presidents

Dead Presidents is an ambitious movie about a black soldier returning home from Vietnam from the Hughes Brothers (Menace II Society), but feels unfocused and in need of an editor at several stages in the production. There’s no paucity of good material here (the robbery scene is downright incredible) but the whole is less than the sum of its parts.
Opite of the Masses II: The Redemption

by Joe Trela

In which we learn why demographics studies should never even pass the new league.

So now I'm looking at the sports section of the paper, and it says on page C1 that the new major soccer league, Major League Soccer (now there, by Coon, was a stretch) has announced the names and logos of their new teams. And the first thing that comes to my mind is, "Where's the comics section?" The second thing, though, is "How many of those needles they use to inflate soccer balls did they stick in their brains, anyway?" It's hard to believe that all of the good names are gone with only four major leagues and a brace of minor ones. The best looking logo probably belongs to Washington D.C. United (an eagle in some sort of heroic pose), but when I say it looks good, I mean on top of the Reichstag circa 1940. The other logos and names don't even bathe with the fascist imagery; some of them are just plain goofy. For an example, take the Tampa Bay Mutiny. Is it particularly wise even to hint to the players that they switch to the other team on the spur of the moment? Presumably, the San Jose Clash will play in neon green paisley shirts, black and red striped shorts and rhinestone cleats. The Kansas City Wiz and Colorado Rapids could play each other in the Flow Bowl. And instead of a cumbersome name like the New York-New Jersey Metro Stars, why not take in the whole megalopolis and call them the Boys from Bowbash? But perhaps we (or I) should stop complaining and start preparing for the inevitable expansion teams. Some ideas: the Seattle Lancers, the Atlanta Gingriches and the Houston Petrodollars. And, of course (thanks to Adam Villani), playing at the Rose Bowl, our own Pasadena Gated Community!

PICKS! PICKS! PICKS! (Not to be taken literally)

CINCINNATI VS. PITTSBURGH (Thursday Night Retro-Prognostication):

After losing to the expansion Jaguars, Steelers' coach Bill Cowher locked himself inside his office with eight peanut butter sandwiches, two six-packs of Jolt cola and one of those vibrating electric football games. He emerged after two days with a beatific smile, a game plan and no shoes: local paparazzi laud him for learning how to handle stress better. Pick: Cincinnati

HOUSTON VS. CHICAGO: Since both cities are major ports, the two cities decided to have a "mayer wager" of local products. Houston wagers a 50,000 barrel tanker of Texas crude against Chicago's bid of 50,000 assorted cow parts.

Pick: Chicago

MIAMI VS N.Y. JETS: With Bobby Eaasian still out from a concussion and backup QB Bucky Briner suffering from a sore thumb, the Jets announce an open tryout for throwers: alas, Dwight Gooden already has a job in the Bronx.

Pick: Miami

JACKSONVILLE VS. CLEVELAND: An electrical fire renders Municipal Stadium temporarily unusable for the game. Unfortunately, the emergency plan (go to Jacobs Field) never took into account the possibility of a certain baseball team playing there in mid-October, and the result is a football game on the lawn in front of the Rock & Roll Hall of Fame, a checkup of Sid Vicious and bruised feelings all around.

Pick: Cleveland

NEW ORLEANS VS. CAROLINA: Flush with their victory over the Jets, several Pampato fans make the drive to the famous (some say infamous) "South Of The Border" roadside Mecca to land up on victory fireworks and accidentally set Barry Foster's ego on fire. Pick: New Orleans

DETOUR VS. WASHINGTON: Members of the Michigan Militia announce their desire for their own stadium and announce that they will start gathering signatures for a new stadium and announce that they will both teams having unexpectedly successful seasons.

Pick: Washington

When one of them is caught entering the city limits on Walt Disney's birthday in 1996. Pick: Green Bay

INDIANAPOLIS VS. OAKLAND: Impressed with the Colts' victories over St. Louis, Miami and San Francisco, former Indiana Senator Dan Quayle declares that coming weekend to be "Official Colts Week" in order to "celebrate the many decades of football entertainment the Colts have brought to Indianapolis." Pick: Oakland

SAN DIEGO VS. SEATTLE: Following a razor-thin vote on building a new stadium for the Mariners, the chief executives for the Seahawks announce their desire for their own new stadium and announce that they will start gathering signatures for a ballot. "We can't lose," says one board member. Pick: San Diego

SAN FRANCISCO VS. ST. LOUIS: Replacement QB Elvis Grobac throws two footballs at a fan who asked him to grease and do a lip curl for his aunt from Memphis. The NFL commissioner rules against a fine, but mentions that "he'd better get used to it over the next four weeks." Pick: San Francisco

BUFFALO VS. NEW ENGLAND (Monday Night): In an attempt to keep business partners in New England on their good side pending the outcome of referendum on succession, a group of Quebecer business owners sponsor "Free Canadian Cuisine Night", where Quebec fans in the luxury boxes can eat all of the fries and gravy they can handle. Pick: Buffalo

Last Week: 6-7: Damn you Oakland Raiders! DAMN YOU ALL TO IRWINDALE! Current Record: 6-7.
Official ASCIT minutes of 10/16/95

Present: Jon, Dave, Kanna, 24, Tim, 16, Greg, Lorri Hau, S2, Jan Zhang, David Wang, and Darth Hau.

Flakes: Melissa, James, Ken,생활

• Meeting blossoms into fruitful existence at 10:23 p.m. The New Meeting time for the ASCIT BOD is officially declared to be Monday night at 10 p.m in SAC 164.

• Dabney predicts $150 in multihouse money cause they’re skateboarding with the Scarce. We give it to them. Real good. Dabney also wants about $50 for the pumpkin drop, but we delay donating to the drop erst know how much they’re getting from the other houses.

• David and Jan finished this year’s yearbook. They want their money. The BOD approves the editors/secretaries plus bonuses (total $1500) as stated in the contract approved by the previous BOD. The BOD discusses the editing of the yearbook, especially the blacking out of the middle finger in a senior picture and the editing of words such as a** in the house section (how can you edit the word a**?). It is agreed that the editors will make it abundantly clear to next year’s seniors that pictures containing profanity or obscene gestures will be edited as to remove the profanity/obscenity/other words editing in try’ from the picture. Due to personal time constraints, David and Jan both resign as editors of next year’s yearbook. Mike Ru and Donna Akutagawa and the remaining editors, internal reshuffling within the staff/editors/business managers of the yearbook will compensate for the loss of two of the four editors.

Officer Reports:

Melissa: I’m such a flake.
Kena: No, I’m a flake.
James: No, I’m a flake.
Laura: I showed up and participated in pending discussion.

• Greg asks for recompensation for himself and Kristie Armentrout for the ASCIT Post-Rotation party. Kanna writes them both checks. Greg gets to go to Palm Springs for Xmas break. Dave will also rewrite the election by-laws because the current by-laws allow instances to occur in which people neither win nor lose.

David Relyes
ASCIT Secretary
Applicants must be free from academic deficiencies. The application deadline is December 1st, 1995, and must have a minimum GPA of 3.5. Applicants are encouraged to provide two letters of recommendation from a professor or advisor. The competition is open to students majoring in any field of study. Applicants should submit a letter of application and a supporting letter from a professor or advisor. The competition winner will receive a certificate of recognition and a check for $2,500.

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