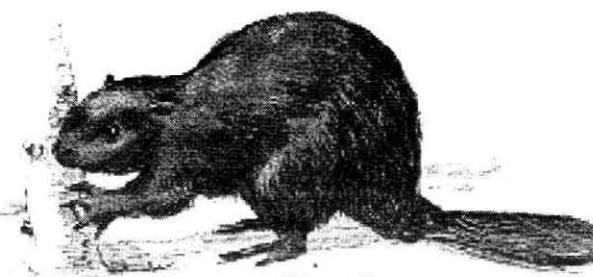


Core Curriculum committee reworks frosh year requirements, dropping Bi 1 and returning frosh 3rd term to pass/fail.

see page 9



President Baltimore hosts free lunch for bio majors in honor of new bio wing.

the athenaeum • friday

THE CALIFORNIA TECH

VOLUME C, NUMBER 22

PASADENA, CALIFORNIA

THURSDAY, APRIL 1, 1999

SCANDAL ROCKS BRAUN GYMNASIUM

BY TIM RAUB

In a legal move that has shocked Caltech's normally sleepy campus, the NCAA has accused both the Caltech's Men's and Women's Basketball teams of point-shaving, following a Department of Justice investigation. Sanctions, as yet undetermined, could range from the loss of all athletic scholarships to disqualification from all national championship contests.

David Baltimore, Caltech president and frequent weightroom hardbody, called the allegations "outrageous and unfounded." He noted that Caltech is known for its honorable conduct in all intercollegiate relations and discredited the report on the basis of unscientific statistical sampling.

"They only looked at one sport! Why, our football team is undefeated since 1994!" exclaimed Baltimore, defending the honor of Caltech sports.

The Justice Department, which sent undercover agents to a total of forty basketball games over the past two years, accuses the Beavers of "suspicious strategies" and "poor shooting." Agent Orange, one of the top department agents on the case, reported that "the men don't even line up for defensive rebounds on free-throw shots! Frankly, I find it a little fishy."

Furthermore, Orange and other department agents document an incident that occurred prior to a recent ladies' game against Menlo. "A man in the stands called down to Caltech's point guard, 'Good luck, honey! You can beat them,' and she turned to him and replied, 'No, we can't, daddy. We'll lose by at least fifty.'" The Beavers went on to lose the game by a score of 104-25. When asked by Caltech officials whether he could be sure of the person in the stands, Orange replied, "Of course. The guy was the only other fan in the stands!"

Kathy Hershey, Caltech's Athletic Office Manager also happens to be the nicest lady you'll ever meet. When informed of the scandal, she wrinkled her brow and frowned.

PLEASE SEE SCANDAL ON PAGE 2

BoC called before the IHC Honor Code temporarily suspended while case is reviewed

BY DAVID GUSKIN

The Caltech Board of Control has been called before the IHC to investigate allegations that members of the Board committed rotation violations last week. Apparently, members of the Board colluded to send illicit propaganda to unsuspecting Prefrosh before Caltech's annual Prefrosh weekend. This propaganda included threats that disobedient Prefrosh would be shunned by particular Undergraduate houses during picks, and promises of favors to those who obeyed the Honor Code and spread further propaganda to other new students.

"I can't believe my roommate would go behind my back like this," commented Jaideep

Singh, IHC Chair, on Alan Rosenwinkel, BoC Chair. "He's always been so trustworthy. He will pay for his treachery."

On the advice of an anonymous informant, IHC agents infiltrated one of the BoC's secret meeting locations Monday and discovered 15 separate packages addressed to various Prefrosh. Upon further inspection, the IHC discovered that these packages contained letters advising the Prefrosh recipients to take the enclosed alcoholic beverages and keep themselves out of "dangerous" Honor Code-violating situations.

Although one of the aims of the Board is to inform Prefrosh about the Honor Code and its implementation in the Caltech Community, according to

Jaideep they have overstepped their bounds by violating numerous rotation rules. The Board has thus far violated 7 of the 10 major rotation rules, including providing money and services to prospective new students who pledge themselves in service of the Honor Code, and promises of dates with female members of the BoC.

"We're merely attempting to persuade the Prefrosh that the Law is absolute here at Caltech," remarked a member of the BoC, who spoke on condition of anonymity, "The Board simply wants to help new students understand the way things work around here."

The BoC will be tried by the IHC early next week, in closed meeting. Until the IHC can de-

termine whether members of the BoC are able to live under rotation rules, the Board is temporarily suspended. In addition, due to the lack of an enforcing agency, the Honor Code will be similarly suspended until the trial early next week.

When questioned, BoC Chair Alan Rosenwinkel denied all allegations and hinted that IHC Chair Jaideep Singh was in for rough times if the work of the BoC was significantly interrupted.

"Look, I'm not going to threaten him or anything," said Rosenwinkel, "but Jaideep better watch out, because he may just wake up one morning with a bloody horsehead at his side."

New Broad Center revealed

BY AUTUMN LOOIJEN

On Tuesday, President David Baltimore revealed the design of Caltech's new Broad Center for Biological Research to campus at a whole. The design had been approved by the trustees last month.

Most of Caltech's original campus was built to have a Spanish Renaissance feel, but in a move toward slightly more modern architecture, the newly unveiled design for the Broad building will take a cue from a later Spanish architect: Gaudi.

"We wanted a more updated design than the original campus, while avoiding the mistakes of going too modern: Millikan and the north campus," explained one trustee. "Gaudi was the obvious choice."

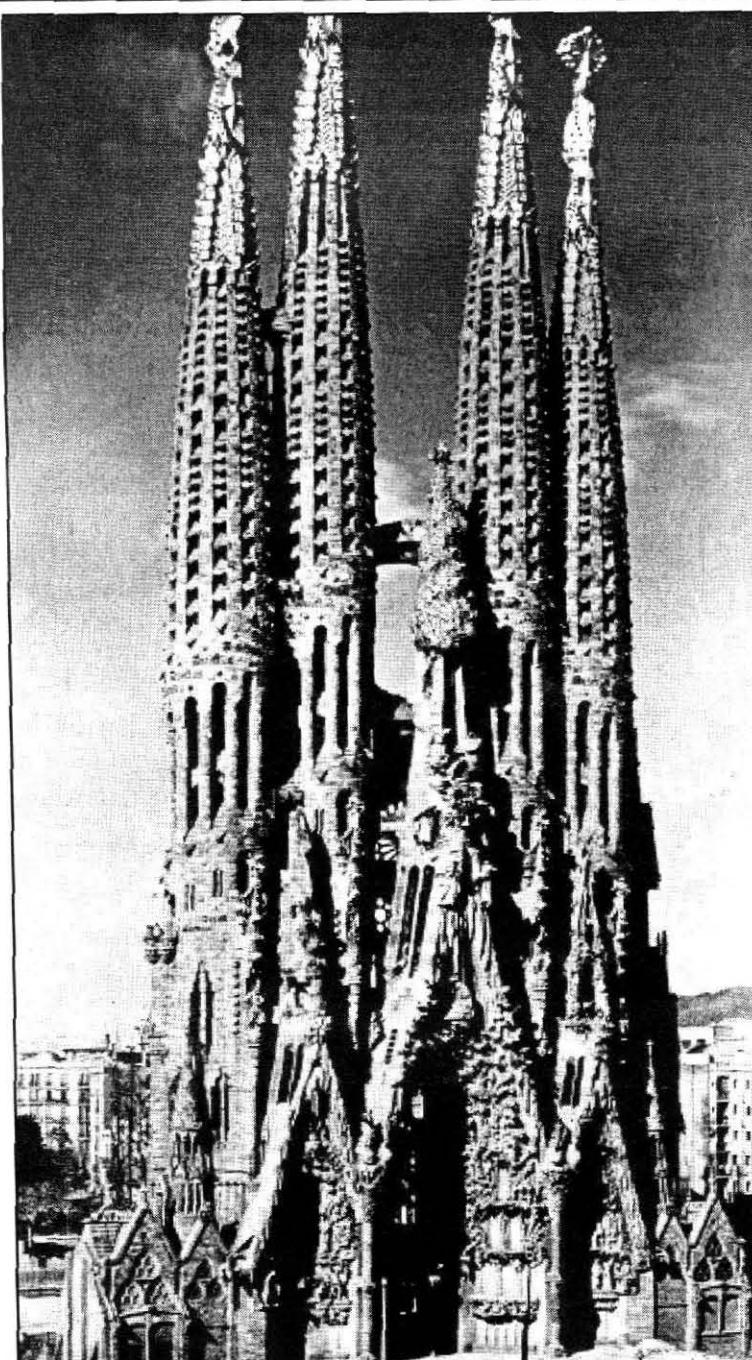
The design, based on

Gaudi's Sagrada Familia cathedral in Barcelona, both shows the prominent place that biology is assuming at Caltech and restores a mystical feeling to campus that has been missing since the destruction of Throop Hall.

The Broad Center's front facade will be a scaled-down version of the completed entrance to the Sagrada Familia, with designs from biology replacing the religious statues of the cathedral. Plant and animal cells, viruses, and proteins are among the sculptures planned. The four main towers will rival Millikan in height. The other three walls of the Broad Center will be simpler, to speed construction, and the inside will be modified to house labs with the latest technology.

Undergraduates are excited

PLEASE SEE BROAD CENTER ON PAGE 2



The architecture of the new Broad center is based on cathedrals like this one, in the Gaudi style.

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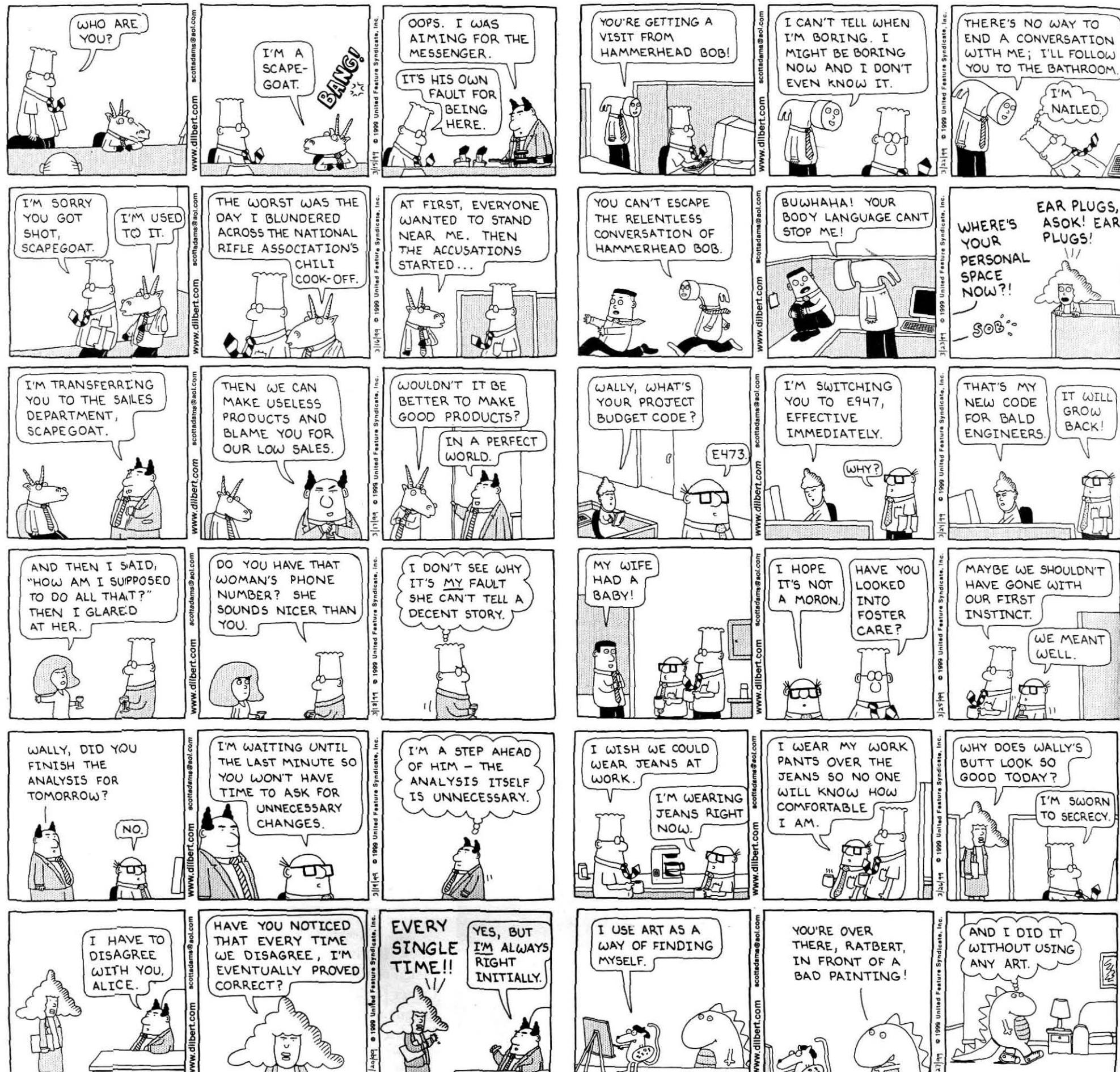
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COMICS

DILBERT® by Scott Adams



BRAUN SCANDAL

CONTINUED FROM PAGE 1

"I'm sure our boys and girls are trying their best. They can't help it if they s*ck."

Caltech plans to launch a rigorous legal defense, invoking the 5th amendment whenever specifically asked about scores but relying heavily on a loophole in the mental insanity plea law. "We maintain that Caltech students are physically unfit to be expected to compete on a level

with academic athletes from other institutions in our conference, such as Cal Lutheran and L.I.F.E. Bible," commented an anonymous legal representative. "We just don't have the same kind of divine might behind our players."

He concluded, "Ipso facto quid pro quorum. Mumbo jumbo cognito ergo sum."

BROAD CENTER

CONTINUED FROM PAGE 1

about the new building's design. Dabney is considering moving the pumpkin drop from its traditional site, Millikan, to the Broad Center towers, once the building is complete. According to the pumpkin drop coordinators, not only would the tow-

ers have the height necessary for the event, but the blue flash would illuminate the detail of the facade, making a more striking impression than Millikan's plain face. Millikan's battered lights might appreciate the move.

Millikan Pond Waterforms taken offline
Whirling Blades of Death deemed unsafe by Caltech administration

BY ERIK STREED

In a long anticipated move, Caltech has announced that the modern art fountain "Waterforms" which resides in Milikan Pond will be removed due to liability and safety concerns. The so called "whirling blades of death" have been involved in several slicing incidents over the past few years, including institute personnel and students. The most recent occurred this past Sunday when a San Marino resident's dog was severely injured while romping in the pond. Chem 1a Prof Nate Lewis, who is annually thrown in Milikan, has been petitioning

for years to have the fountain removed after several close calls

The so-called "whirling blades of death" have been involved in several slicing incidents over the past few years, including institute personnel and students.

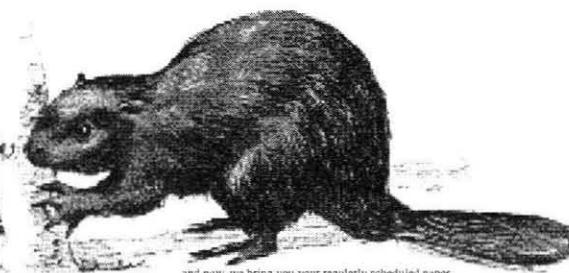
Institute's biggest architectural mistakes, Milikan Library. A noted Caltech archivist explained: "It was the 60's, everybody had just seen 2001 and the Lloyd LSD labs were trading extra premium tabs for extensions on their homework."

Many students fear that with the removal of this tactically and aesthetically offensive artwork, more dangerous artwork will find its way into the newly popular Winnett Lounge. Certain student houses have already taken defensive measures.

with the razor sharp and hideously ugly blades. The fountain was originally installed to divert attention from one of the

KOSOVO IN TURMOIL

see page 5



Who Framed Roger Rabbit?

baxter lecture hall • friday 7:30, 10pm

THE CALIFORNIA TECH

VOLUME C, NUMBER 22

PASADENA, CALIFORNIA

FRIDAY, APRIL 2, 1999

Fellowships awarded

BY TECH STAFF

Five undergraduate students at Caltech have been selected to receive national scholarships. Among these five are Andrea Hassenstaub and Brigitte Roth, both Seniors. The remaining three winners will be featured in future issues.

Andrea Hasenstaub has been selected as one of ten Churchill Scholars. Andrea has a joint major in Math and Engineering. Andrea will spend eleven months at Cambridge University earning an M.Phil. in Biological Anthropology. She is interested in doing research on the relationship between brain weight and the age at which developmental stages are attained in primate life.

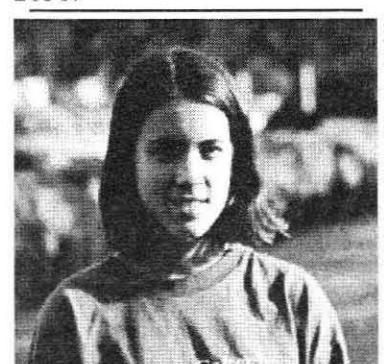
Andrea is the first Caltech woman to win a Churchill. Currently Casey Huang '98 is study-

ing for an M.Phil. in Physics as a Churchill Scholar and Brian Bircumshaw '97 completed an M.Phil. in Engineering last August when he completed his Churchill year.

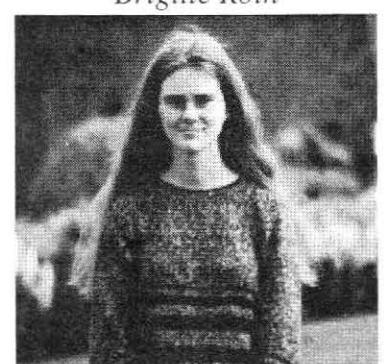
Brigitte Roth has been selected as a Watson Scholar. Brigitte, who is studying Economics at Caltech, will travel to the U.K., Australia, Germany, and France where she will perform as a street musician and study the life of buskers, or street performers.

Undergraduates who would like to learn more about fellowship opportunities should attend the April 29 meeting on the Rhodes, Marshall, Fulbright, Churchill, and Luce fellowships. The meeting is at noon and in the Winnett Club Room. A meeting on the Watson will take place on either April 19 or 20 at noon. For more information or

questions contact the Fellowships Advising Office at ext. 2150.



Brigitte Roth



Andrea Hasenstaub

Jonathan Miller speaks at Michelin lecture series

BY TECH STAFF

Jonathan Miller's career has covered many different fields: author; lecturer; television producer and presenter; theater, film, and operatic director. Born in London, Dr. Miller was educated at St. Paul's School, read natural sciences at St. John's College, Cambridge, and qualified as a doctor of medicine in 1959. Between 1961 and 1964 he coauthored and appeared in "Beyond the Fringe" with Alan Bennett, Dudley Moore, and Peter Cook.

In theater his reputation was built on his many Shakespeare productions such as "The Merchant of Venice" with Sir Lawrence Olivier and Joan Plowright at the National Theatre and "The Taming of the Shrew" for the Royal Shakespeare Company. Non-Shakespearean productions have included Chekhov's "Three Sisters" and "The Seagull", Eugene O'Neill's "Long Day's Journey Into Night" with Jack Lemmon (both on Broadway and in London), and "The Emperor at the Royal Court," which was also seen on BBC-TV. Between January 1988 and October 1990, as artistic director of the Old Vic, he directed a number of highly acclaimed productions including "Andromache" with Janet Suzman, "The Tempest" with Max von Sydow, "King Lear", and Corneille's comedy "The Liar." In December 1992, he directed Congreve's "The Double Dealer" at the Gate Theatre, Dublin and he returned to the Gate in May 1995 to direct Oliver Goldsmith's "She Stoops to Conquer."

Jonathan Miller made his operatic debut in 1973, directing the British premiere of

"Arden Must Die" by Alexander Goehr and since then, he has directed at many of the world's great opera houses.

In 1978 he made his debut with the English National Opera with a new and highly original production of "The Marriage of Figaro" and in ensuing seasons created a number of remarkable productions, among them the legendary "Rigoletto"; "The Mikado," "Turn of the Screw," "Don Giovanni," "The Magic Flute," "Tosca", and "The Barber of Seville." In 1994 he directed Der Rosenkavalier in coproduction with the Los Angeles Music Opera and Houston Grand Opera and he opened the 1995 ENO seasons with new productions of "Carmen" and "La Traviata."

Dr. Miller has established a close relationship with the Maggio Musicale in Florence through his productions of "Tosca," "Don Giovanni," "Così fan Tutte," "The Marriage of Figaro," "La Bohème" (which transferred to La Bastille in December 1995) and "Idomeneo". In 1997 he returned to Florence to direct Strauss' "Ariadne auf Naxos."

Jonathan Miller made his debut at the Royal Opera House, Covent Garden, in January 1995, directing "Così fan Tutte" in coproduction with the Teatro dell'Opera di Roma. The production was revived in February 1997 and recorded for BBC television. Costumes for both productions were designed by Giorgio Armani.

In February 1993 Jonathan Miller directed a semi-staged performance of Bach's "St. Matthew Passion" in London, and it was filmed for BBC 2 and recorded for United Records. In March 1997, Dr. Miller re-di-

PLEASE SEE MILLER ON PAGE 4

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Timothy Downes, Director of Athletics and Physical Education

Today is the first day of Timothy D. Downes' Athletics and Physical Education directorship. Downes joins Caltech from Johns Hopkins University, where he was the Associate Director of Athletics since 1995.

Downes' specialties are NCAA compliance and rules interpretation, and he did independent graduate research on "Title IX and Intercollegiate Athletics." In his statement of philosophy, Downes maintains that "to move beyond the perception that athletic success comes at the expense of academic achievement,

we need to celebrate our students' personal, academic, and athletics achievements as products of their profound commitment of time and effort."

The Student Affairs office will welcome Tim Downes to Caltech on Friday April 9, and they invite students and faculty to a campus-wide reception in the lobby of Braun Gym from 4:30 to 5:30. Refreshments including fruit smoothies and cookies will be served at 4:30, and Downes eagerly anticipates meeting members of the Caltech community.

MILLER LECTURES

CONTINUED FROM PAGE 3

rected it for the Brooklyn Academy in New York. Both productions received great critical acclaim.

In television, Jonathan Miller's series on the history of medicine, "The Body in Question," made him a household name. Between 1980 and 1982 he produced and directed 11 plays for the BBC's prestigious Shakespeare series and in 1985 directed Mozart's opera "Così fan Tutte" for television. Other projects have included writing and presenting two major series for BBC: "Born Talking" and "Museums of Madness."

Jonathan Miller is a frequent lecturer on a wide variety of subjects. In 1994 he gave a series of lectures at the National Gallery, London, entitled "From the Look of Things," which he delivered at the Metropolitan Museum, New York, in 1995. In April 1997 he delivered the River's Lecture at King's Col-

lege Cambridge and in 1998 Jonathan was the curator of an exhibition at the National Gallery, London. In 1996 Jonathan Miller was awarded the honorary title "Doctor of Letters" by Cambridge University. In 1997 he was elected as a fellow of the Royal College of Physicians in London and in 1998 he was admitted as a fellow of the Royal College of Physicians in Edinburgh.

The Michelin lectures were established in 1992 by New York designer Bonnie Cashin in memory of her uncle, James Michelin, who had always hoped to attend Caltech. The purpose of the lectures is to promote a creative interaction between the arts and sciences.

AN EVENING WITH JONATHAN MILLER Friday, April 9, 1999 8 p.m. Beckman Auditorium. Admission is free. Tickets are required. Call the Caltech Ticket Office at x3841.

LETTERS TO THE EDITOR

U.S. at fault

In his letter of March 12, 1999, Mr. Jamison makes an erroneous statement about US foreign policy. US policy towards Iraq does not include lifting of the sanctions in the event of full cooperation with UN weapons inspectors. This is evident from the public statements of policymakers in the Clinton and Bush administrations since 1991. As UN Ambassador and as Secretary of State, Madeline Albright has repeatedly stated that Iraq needs to prove its peaceful intentions, including removing Saddam Hussein from power, before the sanctions will be lifted.

Saddam Hussein and his Baathist regime has been extremely efficient in eliminating all opposition groups during its 20 years in power, so his overthrow will not occur in the near future. Therefore the sanctions

will continue regardless of the actions of the Iraqi government. By Mr. Jamison's logic, they are not responsible for the suffering of the Iraqi people.

You might hold the Iraqi people accountable for their own suffering, since they have failed to overthrow Saddam Hussein. However, recall that the country is ruled by a powerful military regime which has no qualms about slaughtering its own subjects. Last month, the Shiite cleric Grand Ayatollah Mohammed Sadiq al-Sader and his two sons were mysteriously murdered after he made anti-government statements in a sermon. This unabashed brutality makes it nearly impossible to organize a large popular movement in the open, making the \$100 million President Clinton has offered to assist a revolution not nearly enough. In addition, because of the sanctions, ordinary Iraqi citizens are more interested in getting enough food

and medicine to survive than they are in organizing an insurrection.

This leaves the government and the people of the United States to blame. It is the responsibility of the American people to put pressure on policymakers in the United States to adopt a humane course of action which will not punish the weak and innocent for the crimes of a brutal dictator who certainly can survive the crippling effect that the sanctions are having on the multitudes in Iraq.

- Brendan Crill

Please send letters to the editor to:

The California Tech
Caltech 40-58
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or by electronic mail to editors@tech.caltech.edu.

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noon Monday

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The Kosovo Crisis continues

BY ERIK DILL

On Wednesday, March 24th, the North Atlantic Treaty Organization (NATO) began a bombing campaign against Serbia. This military action ended attempts over the past several months to broker a peace agreement between Serbia and the ethnic Albanian majority in the Kosovo province.

Autonomy was granted to Kosovo in 1974 by a revision of the Yugoslav constitution. In 1989 Slobodan Milosevic rescinded this right, supposedly in support of Serbian nationalism. Ninety percent of the region's citizens were ethnic Albanians. Serbian troops were sent in large numbers to maintain order.

In 1997, the Kosovo Liberation Army begins to form, carrying out guerilla operations against Serbs in the province. The conflict develops into a full scale guerilla war when Milosevic sends Serbian troops to Kosovo in early 1998. Rumors of "ethnic cleansing" - attacks directed against specific ethnic groups to force them from the region - begin. Similar events occurred during the war in Bosnia during the early 1990's.

A SPECIAL OUTSIDE WORLD

recent events surrounding Kosovo

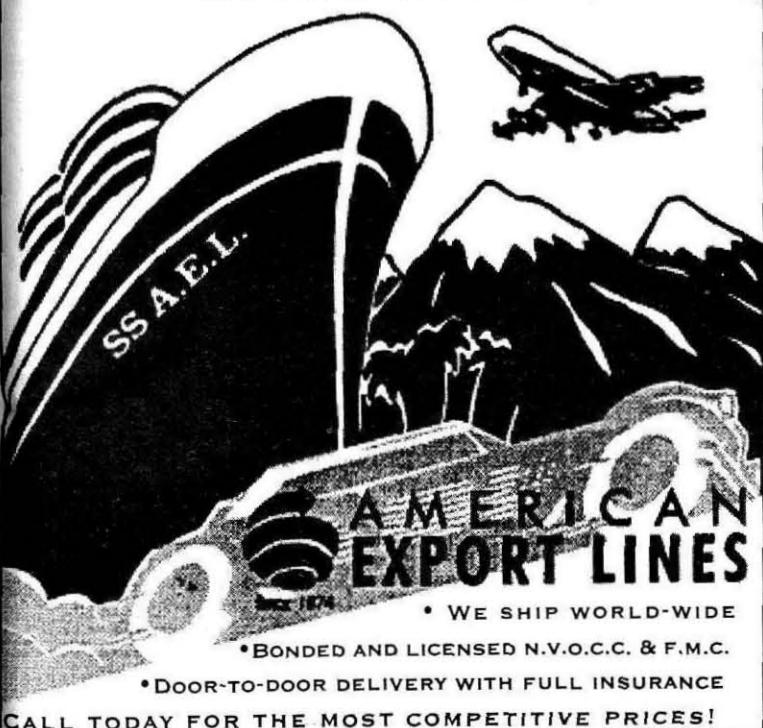
date	event
October 1998	Serbian forces massacre Albanian civilians, and force others from their homes. NATO threatens to bombard Serbia if it does not back down. Milosevic agrees to a cease-fire and troop withdrawals, averting the bombing.
January 1999	40 unarmed civilians, men, women and children, are killed in the village of Racak. In violation of the previous peace agreement, 30,000 - 40,000 Serbian troops are in and around Kosovo, engaged in offensives against the KLA. Peace talks sponsored by Germany, Italy, Russia and the United States convene in Paris between the Serbs and Kosovo Liberation Army.
March 17th	A Finnish pathologist leading an investigation team declares the Racak incident a "crime against humanity" and reports it to the War Crimes Tribunal in the Hague.
March 18th	The Kosovo Peace Accord is agreed to by the Albanians. Provisions include autonomy of ethnic Albanians in Kosovo, disbanding the KLA, reduction of the number of Serbian troops and police in Kosovo, and a 28,000 member NATO peace-keeping force to enforce the cease-fire. The decision on Kosovo's final state would be discussed at a settlement meeting to be held in five years. The Serbs agree to most political provisions, but reject presence of the peacekeeping force. NATO again threatens bombings if the Serbs do not accept the agreement.
March 20th	1,300 members of the Organization for Security and Cooperation in Europe leave Kosovo. The group had been monitoring the January cease-fire agreement. NATO claims that, in the absence of foreign monitors, the Yugoslav army launches a major offensive against the KLA.
March 21st	Pristina sees two bombing attacks and the ambush of four Serbian policemen. NATO urges the KLA to refrain from provoking Serb forces.
March 22nd	NATO secretary Javier Solana given authority to order airstrikes against a broader range of Serbian targets, including tanks and ground forces. 3,000 - 5,000 Serb troops, with tanks, move toward Pristina.
March 23rd	Richard Holbrooke meets with Slobodan Milosevic in a last attempt to get the Serbs to accept the peace agreement. Milosevic refuses.
March 24th	NATO airstrikes begin around 8 p.m. local time. The attack is denounced by Russia, who recalled their military representative to NATO. United Nations Secretary General Kofi Annan criticized Yugoslav authorities for rejecting the peace agreement and NATO for acting without approval of the UN Security Council, but implied that force was justified. President Clinton defends the strikes to the nation. NATO pilots shoot down two Yugoslav MIG-29 fighters flying toward Bosnia. Unconfirmed reports of Serbian violence against ethnic Albanians continue, including rumors that up to 15,000 Albanians are being marched through Kosovo. President Clinton and Madeline Albright denounce Milosevic and his policies in a televised speech broadcast in the Balkan region. The UN Security Council rejected, 12-3, a Russian resolution that airstrikes be ended.
March 26th	An American F-117 stealth fighter is shot down. The pilot is rescued within six hours of the crash. Serbian officials claim that the plane was shot down by Yugoslav air defenses, while NATO officials refuse to give more information. Ukrainian and Russian contingents meet with Milosevic in unsuccessful attempts to mediate an end to the conflict.
March 27th	Reports of ethnic cleansing by Serbian forces continue. As many as 130,000 Albanians have fled Kosovo for neighboring provinces. Lack of journalists or international monitors makes it difficult to verify actions by the Serbian army, but stories of executions and burning of villages are common to many of the refugees. Also, many refugees report that Serbian soldiers stripped them of all identification before they left Kosovo.
March 30th	Three US soldiers patrolling near the Macedonian border were reported missing. NATO announced that it would step up the bombing attacks against Serb forces.
March 31st	

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April 1-4

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Good Friday Celebration of the Passion 4:30 pm
Holy Saturday Easter Vigil 10:30 pm
& Mass of the Resurrection
Easter Sunday Mass of the Resurrection 10:00 am

Location: Millikan Board Room (Thurs: Dabney Lounge)

Eucharistic Hour: Thurs 9-10 pm, 1453 E.California
(3 drs from Hill)
Confessions: Thurs & Fri, 11 am - 12:15 pm, Braun
112, or by appointment.
Stations of the Cross: Friday at 7:30 pm, at Millikan

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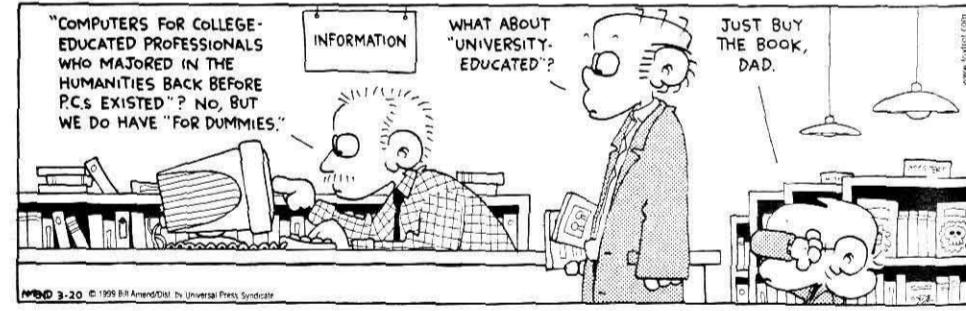
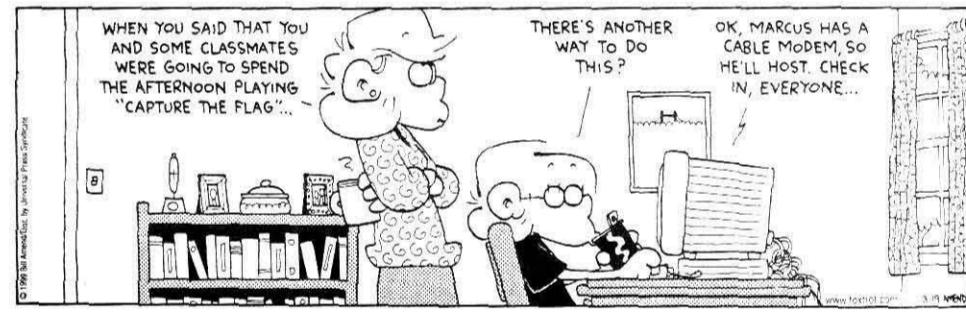
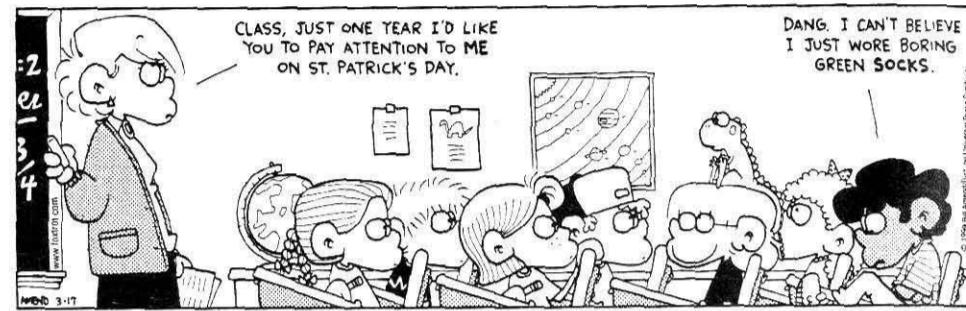
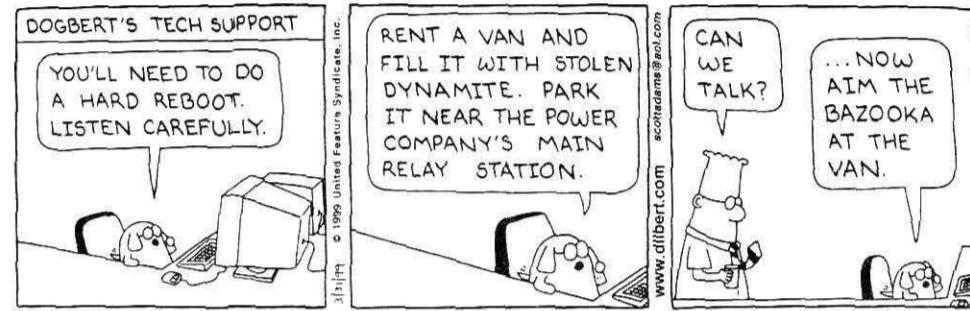
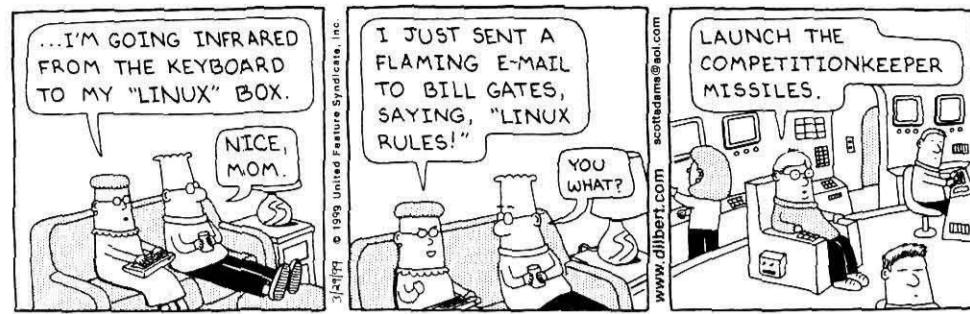
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DEAN

Dean's Corner



I feel blue...is there a pill?

by Jean-Paul Revel

I feel very very frustrated these days because there are so many things that make me feel powerless. My surprising reaction is that, as a result, I have become disconnected from what is happening in the world. The classical ostrich position, I suppose. If I don't know what is happening, maybe it is not there... After months of prevarication and threats we finally start to bomb the dickens out of a small country. Hey that does not mean I like those guys; I understand quite well that we need to act. It does not even make me feel good to reflect that the world might have been very different if anyone had acted more decisively in the 1930's, when Hitler and Mussolini were gaining their power. So it is frustrating to feel that, yes, we should do something to prevent the Serbs from "cleansing", but is war the way?

Is war ever the way? Is there not always some semblance of rationale for the stances of both

sides? Is it not peculiar that wherever one lives or whatever group one belongs to, whoever says "we" is "right". Is it not like a mental patient's delusion that he is sane and the rest of the world crazy? In fact, when at war, people stop thinking straight. The very strain imposed on all by war, especially on the victims, gives them a reason to unite to hold together, even if rationally they should rebel against their leaders. The people under attack can develop a sense of community, of collective effort that is very enriching in spite of the terror that engenders all of it. A black camaraderie develops, where each group of protagonists becomes bound together by a new found loyalty and a singularity of purpose. Whether or not Milosevic caused the bombing by refusing to curb his dream of Serb hegemony, the people of Belgrade can be united behind him in an act of defiance to NATO and Stealth bombers by attending a concert in the middle of town. It costs nothing since we would

not bomb such an assembly of civilians. I think, I hope.

War cannot be carried out unless we demonize the enemy. That creates problems when we discover that the enemy is just like us, a bunch of people no more nor less likable and despicable than we are, scrabbling for their place in the sun, their share of happiness. When we hear and see ethnic Serbs we discover that they are not the enemy any more than the Russian people were, or the Iranians. The enemy are those who believe that they have a unique right to a place in the sun, which precludes others from occupying same, whoever they are. Enemies are people believing in their own superiority. I am better than you. You are the bad guys, whom we can hate for wanting what I have (or having what I want). The enemy gets to be embodied in the leadership, those that direct and manipulate public opinions. Those who profit from these beliefs and are callous enough to think they are entitled.

With all of this I turn blue with frustration with our national behavior. I want to believe that we are working hard at our

Constitutional promise of justice, domestic tranquility, welfare and liberty for ourselves and our posterity. We tell everyone about human rights, insisting that our morality and ways of doing things are the right way, the only way. But are we doing at home what we ask others to do? I don't think we succeed. We too act in ways that are morally repugnant. We need to be consistent. Not do ourselves what we ask others not to do. I know consistency is the hobgoblin of small minds, so it should not affect us. We can't ask others to respect their neighbors of a different race, religion, ethnicity, whatever, if we fail to do so ourselves. Even though the laws are in the books, we fail many of our own countrymen and women in these respects!

So could we not do better? Stop preaching to others about things that we do not do well ourselves? The nation, through our high officials, tells others about our way to democracy. But do we do enough to promote democracy within our own boundaries? Is our behavior "democratic" by definition only? How is it that so many Americans in this prosperous era are wanting bread and medical help? How is it that in this freest of countries there are still barriers to ad-

vancement for women and other minorities? Let us be sure that in big and small we all do our best not just for ourselves but for others as well.

The religious among us celebrate important festivals this week. The Jews observe Passover, and Christians, Easter. For the Jews it means a celebration of freedom, of liberty, of release from Pharaoh's bondage. For Christians the death and resurrection of Jesus, whose tragic fate redeems humanity from its shortcomings. This year it is also the time for the Muslims to celebrate Eid al-Adha which commemorates Abraham's obedience by making preparations to sacrifice his son to God (and God's mercy in substituting a lamb). Although religion is a powerful force for "good" it has been and still is an excuse for wars and persecutions in the name of holiness.

Frustration! May we all work to make the world different. For us at Caltech may we remember the positive statement of the Honor Code.

A bientot!

Jean Paul Revel

Attention all undergraduate financial aid recipients

The last date to request any change to your 1998-1999 Financial Aid Award is Friday, April 30, 1999. Requests for 1998-99 changes made after April 30 will not be considered. Please contact the Financial Aide Office at ext. 6280 if you have any questions.



SUMMER WORK-STUDY APPLICATIONS NOW AVAILABLE

Information and applications for 1999 Summer Work-Study are available in the Financial Aid Office. If you are interested in Summer Work-Study, please submit the required application as soon as possible, but no later than June 1, 1999. Your entire financial aid application must be complete by June 1 to be considered. If awarded, work-study financing will begin July 5, 1999.

Caltech SEDS kicks off guest lecture series

BY LOREN HOFFMAN

Caltech SEDS (Students for the Exploration and Development of Space) sponsors a guest lecture series this term. The lectures will be technical, yet accessible to the average Caltech undergraduate.

Held at 7:30 p.m. on Mondays beginning April 26th, the talks will span topics ranging from spacecraft design software to infrared spectroscopy. Dr. Joel Sercel, Caltech alumnus and current employee of JPL, will kick off the series on the

1999-2000 UPPER CLASS MERIT AWARDS

Each year, the Faculty Committee on Scholarships and Financial Aid grants a number of Upper Class Merit Awards to the most academically talented of the Institute's Sophomores, Juniors, and occasionally, Freshmen. Upper Class Merit Awards are based on outstanding scholastic achievement as demonstrated by exceptional performance in formal classes and/or independent research and not a financial need. Last year, the Committee recommended a total of 53 Upper Class Merit Awards. Awards ranged from \$6,250 to full tuition, \$18,950. The number and caliber of the applicants determine the level of awards in any year.

Applications are available in the Financial Aid Office at 515 S. Wilson. THE DEADLINE FOR SUBMITTING COMPLETED APPLICATIONS TO THE FINANCIAL AID OFFICE IS 5:00 PM ON APRIL 23, 1999.

26th with a presentation on a new spacecraft design tool which will keep SURF students busy this summer. Future speakers include Tom Soifer, head of the Space InfraRed Telescope Facility, and Jim Elliot, MIT professor.

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Announcements

****Guitar classes** will be offered by Darryl Denning third term beginning Tuesday, April 6. Classes will be held every Tuesday in Student Activities Center Room 1 from 4:30 to 5:30 for beginners, 3:00 to 4:00 for intermediates, and 5:30 to 6:30 pm for advanced guitar students. In-class instruction is free to Caltech students and staff if space permits. Private instruction is also available. For more information call 465-0881 or email ddemming@caltech.edu.

****The last date to request any change to your 1998-99 Financial Aid Award** is Friday, April 30, 1999. Requests for 1998-99 changes made after April 30 will not be considered. Please contact the Financial Aid Office at ext. 6280 if you have any questions.

Mark your calendars! **Prefrosh Weekend 1999** is scheduled for Thursday, April 15th, through Sunday, April 18th. If you are interested in helping out with Prefrosh Weekend, please contact Dina Figueira, Assistant Director of Admissions, dina@admissions.

If you have the time we have the need. Goodwill industries of Southern California is a non-sectarian, not-for-profit organization whose mission is to enhance the quality of lives of people who have disabilities and other vocational disadvantages by helping them to become productive and self-sufficient through education, training, and job opportunities. Goodwill helps more than 2000 people each year and is nearly 90 percent self-supporting through its 24 retail stores, education, and job-training programs, computer recycling center and its Industrial Services contracts with local businesses. For more information on how you can help Goodwill help others through volunteering, call Robin Braislin at 323-223-1211 ext. 230.

Are you bright, motivated, fun, and energetic? Do you want to make a difference on campus? Join the **undergraduate Women's Leadership Group!** This group is dedicated to promoting campus-wide, inter-house, leadership for undergraduate women. The group is forming now, and a planning meeting will be scheduled for early Spring Term. If you are interested in joining, contact Janna Horowitz in the Counseling Center, x8331 or janna@cco.caltech.edu, before the end of winter term.

Looking for a safe and supportive place to discuss issues such as coming out, being out, dealing with family, coping with a homophobic culture, and being GLB at Caltech? The **Gay/Lesbian/Bisexual Discussion Group** meets on the first and third Tuesday of

each month from 8:15 P.M. until 10:15 P.M. in the Health Center lounge. This is a confidential meeting and does not imply anything about a person's sexual orientation -- only that s/he is willing to be supportive in this setting. The group usually discusses a particular relevant topic and then moves on to general discussion. Call x8331 for more information.

Free anonymous HIV testing is available every Monday evening using Orasure oral testing at the AIDS Service Center, 1030 S Arroyo Parkway. Appointments by calling 888-448-9242 are preferred; walk-ins are welcome. Last appointment at 8:00 pm. For more information call Craig Petinak at 626-441-8495.

Looking for summer work in one of the nation's last examples of pristine wilderness? **Glacier National Park**, located in the northwest corner of Montana, is looking for students to fill more than 900 summer jobs in all segments of the hotel and hospitality areas. Positions range from hotel front desk clerks to tour guides to guest entertainment roles. For details on jobs and salaries call Glacier Park, Inc. at 602-207-2620, write to them at 1850 North Central, Phoenix, AZ, 85077-0924, or visit www.gpihr.com.

Events

****The Chemistry 0.1 Seminar Series** will kick off on Friday, April 9, at 4:00 pm in Baxter Lecture Hall. Ahmed Zewail, Linus Pauling Professor of Chemical Physics and Professor of Physics at Caltech will discuss "Dynamics of the Chemical Bond." This is the fourth in the 0.1 seminar series designed to introduce innovative research to a crosssection of the campus community. All lectures will be directed at a nonspecialist scientific audience, and no prior knowledge of chemistry will be necessary to understand them. A list of all Chem 0.1 seminars is available online at http://www.cco.caltech.edu/~koonin/CCE0_1seminars.html.

****Caltech SEDS** will hold this term's **general meeting** at 4:00 pm on Sunday, April 11 in the Winnett Center. We'll discuss the completion of the construction of our 8"

Dobsonian telescope, the upcoming guest lecture series, this term's star parties at Joshua Tree, a rail gun project, telescope nights on campus, and anything else people care to bring up. This is your chance to bring to our attention any projects or activites you'd like to see happen, learn more about SEDS in general, and become active in the organization! For more information email us at seds@cco.caltech.edu or visit our

Mints

web site at <http://www.cco.caltech.edu/~seds>.

****Caltech SEDS** will be holding its sixth **telescope construction meeting** on Sunday, April 4, the first weekend of third term, at 3:00 pm in the SEDS lab (0011 Thomas). No prior experience is necessary. For detailed construction plans follow the Construction Instructions link from <http://www.cco.caltech.edu/~seds/telescope.html>. For other information contact Loren Hoffman at loren@cco.caltech.edu or Leon Torres at leon@ugcs.caltech.edu.

****Richard Garwin**, an IBM fellow Emeritus at IBM's Thomas J. Watson Research Center in Yorktown Heights, New York, and a senior fellow for science and technology at the Council on Foreign Relations in New York, will give a **Lauritsen Memorial Lecture** entitled "**Ballistic Missile Defense Revisited**." The lecture will be held in Beckman Auditorium at 8:00 pm on Wednesday, April 14. For more information call 1-888-2CALTECH or 626-395-4652.

****The Viklarbo Chamber Ensemble** will perform in Dabney Lounge at 3:30 pm on Sunday, April 18. Admission is free. For more information call 1-888-2CALTECH or 626-395-4652.

****The Caltech Chamber Singers** will give their thirteenth annual concert at 8:00 pm on Friday, April 9, and again on Saturday, April 10 in Dabney Lounge. This **All Mozart** concert will feature the "Credo Mass," "Eine kleine Nachtmusik," "Sonata in D Major, K 381," and "London Trio No. 3 in G Major." Admission is free, but come early -- concerts are always SRO!

The Human Resources, Employee Services office will sponsor a **Red Cross Blood Drive** on Thursday, April 8, from 12:15 till 5:30 pm and Friday, April 9, from 10:15 a.m. till 3:30 pm in the Winnett Lounge. For an appointment please contact Kim at ext. 6001 or kim.goodfriend@caltech.edu. Walk-ins are also welcome.

The annual **FOCAL** (friends of Caltech Libraries) **Booksale** will be held on Friday, April 23 from 8:30 am till 2:30 pm in Dabney Hall Lounge and Gardens. The booksale is open to the public; everyone is welcome. Come and see what treasures there are to be discovered!

Fellowships and Scholarships

****Each year, the Faculty Committee on Scholarships and Financial Aid grants a number of Upper Class Merit Awards** to the most academically talented of the Institute's Sophomores, Juniors, and occasionally, Freshmen. Upper Class Merit Awards are based on outstanding scholastic achievement as demonstrated by exceptional performance in formal classes and/or independent research and are not based on financial need. Last year, the Committee recommended a total of 53 Upper Class Merit Awards. Awards ranged from \$6,250 to full tuition, \$18,950. The number and caliber of the applicants determine the level of awards in any year. Applications are available in the Financial Aid Office at 515 S. Wilson. The deadline for submitting completed applications to the Financial Aid Office is 5:00 pm on April 23, 1999.

The John Gyles Education Fund is offering scholarship awards up to \$3,000 for the 1999-2000 academic year. Applicants must be Canadian or U.S. Citizens, have a 2.7 or higher GPA, and demonstrate financial need. Criteria other than strictly academic ability and financial need are considered in the selection process. To obtain an application, send a self-addressed, stamped envelope to: The John Gyles Education Fund, Attention: The Secretary, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4. Filing dates for mailing documents in 1999 are April 1, June 1, and November 15.

The American Electroplaters and Surface Finishers Society (AESF) is offering scholarships to upper-class undergraduate and graduate students for the 1999-2000 academic year who are interested in careers in the electroplating and surface finishing field. Undergraduates must be full-time and majoring in chemistry, chemical engineering, environmental engineering, materials science, materials engineering, metallurgy, or metallurgical engineering. To obtain an application form and further information, send a self-ad-

dressed, stamped envelope to: AESF Scholarship Committee, American Electroplaters and Surface Finishers Society, 12644 Research Parkway, Orlando, FL 32826-3298. Entries must be submitted to AESF by April 15, 1998.

The Beckman Internship will be available for the summer of 1996. The internship, supported by friends of Arnold Beckman, will pay a stipend of \$4,000. It allows a selected intern to spend the summer working in the office of a politician and to see the inside process of government. The intern is expected to make arrangements with the appropriate political persons. It is open to any undergraduate who intends to be a Caltech student next year. If interested, submit a brief proposal describing where and how you would use the stipend, to the Deans' Office, 102 Parsons-Gates, by Monday, April 5, 1999.

Green Hills Software annually awards merit-based scholarships and fellowships to Caltech undergraduates who have demonstrated ability and special aptitude in computer science. The award for the junior year consists of a \$2,500 scholarship. The award for the senior year may consist of either a \$25,000 or \$5,000 scholarship. In addition, one or two applicants are invited to become Green Hills Fellows. Applicants should be second term sophomores with a GPA of 3.2 or higher. The selection criteria include programming ability, academic performance, and faculty and peer recommendations. To apply, applicants must submit an application form, current academic transcript, and three letters of recommendation, preferably from faculty or employers familiar with the student's work. Applications are available in the Financial Aid Office. Entries must be submitted to the Financial Aid Office by April 16, 1999.

For information on the listed fellowships, assistance with essays, for clarification of questions, contact:

FAR - The Fellowships Advising and Resources Office. To make an appointment, call x2150. For more information, please email lauren_stopler@starbase1.caltech.edu.

UFA - The Undergraduate Financial Aid Office. For information, call x6280, or stop by 515 S. Wilson for an appointment.

To submit an event for the Mints, contact mints@tech.caltech.edu or Mail Code 040-058 by noon on the Monday prior to its inclusion. Submissions must be brief and concise. Please do not send Mints in difficult formats like Binhex or Word document. ASCII and rtf are best. The editors reserve the right to edit and abridge all material. Solicitations will be referred to the business manager.

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