

THE CALIFORNIA TECH

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PASADENA, CALIFORNIA

FRIDAY, MARCH 13, 1998

Caltech Professor Emetrius Dies

BY TECH STAFF

David Shotwell Wood, a professor emeritus of materials science at Caltech, passed away March 12, 1998 at his home. He was 77.

An alumnus with three Caltech degrees, Wood was appointed a lecturer in mechanical engineering after earning his doctorate in 1949.

After transferring to Caltech from Pasadena Junior College, he received a B.S. from Caltech in Materials Science in 1941. He remained at Caltech for a MS degree and a Ph.D. in materials science. He rose through the academic ranks to become a professor in 1961, and remained on the faculty until his retirement in 1988.

Wood served during World War II at the Los Alamos Laboratory in mechanical design development work for the atomic bomb. Before relocating to New Mexico in 1944 for the Manhattan Project, he also worked on campus on a defense research project involving the propagation of plastic waves in metals.

After joining the faculty, Wood continued work

on plastic-wave propagation in solids, and was especially interested in plastic strain waves produced by impact and explosive loading. He also worked on the mobility and density of dislocations in metallic crystals, and on fractures in metals.

A native of Akron, Ohio, Wood did consulting work through the years for companies such as Standard Oil Co., ElectroOptical Systems Corp., and Sandia Corp. He was a member of the American Institute of Mining, the Metallurgical and Petroleum Engineers, the American Society of Mechanical Engineers, the American Society for Metals, the Society of Sigma Xi, and the American Association for the Advancement of Science.

In 1950, he was awarded the Richard L. Templin Award of the American Society for Testing Materials.

His campus service included the chairmanships of the Graduate Student House Committee, the Convocations Committee, and the Faculty Committee on the ASCIT Research Project. He was also Associate Dean of Students, and member of the Freshman Admissions Committee and Curriculum Committee.



*Senior Picture of David Wood
class of 1941*

Thousands attend inaugural gala

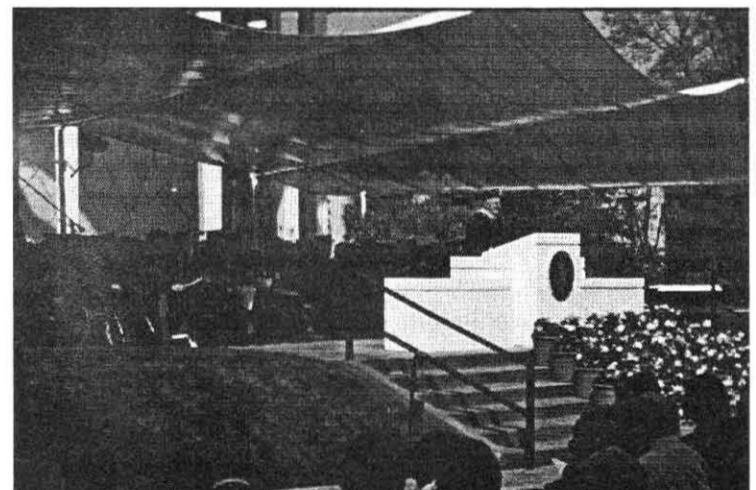
BY ERIK DILL

Traditionally, the Caltech community has been led by individuals who bridge the disparate worlds of scientific discovery and inspirational administration. This tradition continued Monday afternoon when Dr. David Baltimore was inaugurated as the fifth president of the Institute.

Ceremonies began at 2:00 p.m. with a procession of representatives from all corners of academia, including Nobel and Crafoord Laureates, delegates from 75 academic institutions and learned societies, and Caltech alumni and faculty. Kip Thorne, Chair of the Presidential Search Committee, was chief marshal and Gordon E. Moore, Chair of the Board of Trustees, presided over the event.

Baltimore was greeted by members from all branches of the Caltech community, including Martha Throop Smith and former Presidents Marvin Goldberger and Thomas Everhart. Proclamations from the President of the United States and California State Legislature were also read. Baltimore was praised by all for his past achievements, as well as his efforts to learn about all elements of the Caltech community. In his address, President Emeritus Everhart noted that "today we are inaugurating the greatest biological scientist of our time to lead the Institute forward."

An address was given by Maxine F. Singer, President of the Carnegie Institute of Washington and recipient of the National Medal of Science. Her talk described the efforts of George Ellery Hale to advance astronomical studies while at Caltech, citing both his vision and business acumen as vital for making such revolutionary facil-



Dignitaries attend Caltech's new President

ties as the Mt. Wilson and Palomar observatories a reality. Parallels were drawn between the significance of Hale's telescopes and Baltimore's reverse transcriptase, as well as the imaginations from which these fundamental developments arose. Furthermore, Singer proposed that universities should give shape to our society and that the presidency serves as an environment for the execution of bold leadership with national and international consequences.

After Dr. Singer spoke, the Caltech Glee Clubs performed a rendition of the traditional college song "Gaudemus Igitur" which was commissioned especially for the event. Then Moore and Benjamin Rosen, Vice Chair of the Board of Trustees, invested Baltimore with Robert Millikan's academic hood, formally endowing him with the burdens of the Caltech Presidency.

Kip Thorne spoke on behalf of the Presidential Search Committee, giving some of the reasons why Baltimore was eventually selected to be President. Among them were his open-mindedness, interest in undergraduate education and

ability to forge consensus. Most importantly, Baltimore was noted to be "smart and strong enough to stand up to arrogant physicists." In the Inaugural Address, Baltimore expressed his pleasure in coming to Pasadena and praised the Caltech environment. His vision for Caltech in the coming years includes adjustment to the changing academic atmosphere and rediscovery of the arts. He reiterated his commitment to increasing the diversity of both the student and faculty populations while maintaining the unique qualities of the community.

The ceremony ended with the skyward launch of orange and white balloons as the dignitaries recessed and Caltech was launched into promising future seas, with an intrepid new President at the helm.

*See Baltimore's
Inaugural
Address on page
6 and 7*

Hawking on Spacetime

BY RON DOLLETT

How much power can one man wield? As three thousand people started to file into Beckman Auditorium on Wednesday night, a large, bright shooting star shot through the northern part of the sky, defying the brightness of the moon. Perhaps it was an omen. Perhaps someone upstairs was waiting to hear Stephen Hawking's lecture also.

Hawking's lecture, "Predicting the Future — From Astrology to Black Holes," essentially discarded astrology (and also, possibly quantum mechanics) as well as question the very nature of time itself. Although his hour-long speech was filled with many references to Schroedinger's equation and other constructs of quantum mechanics, Hawking did explain things clearly and concisely, with simple geometric representations of cosmological phenomena.

He began by completely slamming the door on astrology, asserting that the motions of stars and planets do not have any effect on the "intelligent life" on Earth. Hawking continues by pointing out that there has never been any success in predicting human behavior, which is all we really care about as far as seeing the future.

Much of Hawking's lecture then focuses on relativity, of which he and Kip Thorne specialize in. (Time was not absolute as of 1905. And in 1915, things only got worse.) He discussed how black holes arose from stagnation points in space-time, and how quantum mechanics broke down within its event horizon. Throughout his lecture, Hawking inserted many jokes and distractions which showed off his light-hearted, humorous side, even if it came at the expense of the French.

In stating how information was lost in black holes, he added, "Maybe we found the Theory for Everything last year, but it got lost."

The evening was brought to a close with a short question and answer period. John Preskill and Kip Thorne selected questions for Hawking to answer such as, "Can one see light if one were inside a black hole?" (to which he responded, "Yes.") and, "Is time travel possible?" (To which he responded, "I'm waiting to hear from the future.") In between questions and answers, Preskill and Thorne discussed Hawking's research techniques, tools (in regard to his chair or his voice generator), along with his plans to patent the Big Bang so that anyone who wants to use the universe would have to pay him royalties.

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Dean's Corner

Bird Watching

by Jean-Paul Revel



It is still early in the week as I write, but it has been quite a week already. On Sunday, there was a small scientific Symposium organized to celebrate the Birthday of our incoming president, by his wife Dr. Alice Huang and friends. As this wonderful day played out it became increasingly obvious how much Dr. Baltimore had inspired all the assembled scientists intellectually and how deep their love and gratitude. Dr. Baltimore was portrayed as the man in the sun, cartooned as the great fisherman, as a person to traverse a continent or cross an ocean for. And the next day was better yet, with his Inauguration as President of Caltech under the eye of the great grand daughter of Founder Amos Throop, and of his immediate presidential predecessors, our 6th president, Murf Goldberger and our 7th, Tom Everhart.

Now it struck me that *inaugurate* has as root *augur*, the priest of Roman times who determined if a given course of action was appropriate, by interpreting divine intentions. Starting anything new implied asking first for divine acquiescence. The Augur who performed the necessary rites was next in hierarchical order to the most elevated priest of

all, the Pontifex, the Pontiff as we would call him in our irreverent modern way. I have met only one Pontiff in my life, and I knew I had because it said so on the door of his basement office: *Pontifex Maximus* announced the placard and drawing of a huge tiara: the greatest. The door was also adorned by a bit more incongruous stickers for STP, the wondrous oil additive. But that's irrelevant. The *greatest* of course was Max Delbrück the physicist turned biologist who, having started the field by studying a very small and presumed simple organism, the bacteriophage, became the confidant and supporter, the respected teacher and inspiration of that spectacular group of scientists who began the modern revolution in Biology. At least as revered (by Biologists anyway) as Richard Feynman is by physicists, *Pontifex Maximus* indeed. So I guess the idea is that at the launch of a great and new enterprise, as a new person takes the reins of our Institution, one needs to consult the Augur, to Inaugurate.

Lots of ceremonials were played out Monday, but I don't know if we did in fact Inaugurate the New President, i.e. whether any one looked for the necessary signs of approval. The signs could not have been in the balloons, especially not those wrapped

awkwardly around the olive trees. It could not have been in the free balloons, which were pretty but whatever signal they sent could

apply to Princeton as well. It could not even be Millikan's hood, however august that relic, it surely was only symbolic. You see, the *au* in *augur* stands for *avis*, the Latin word for bird, because divination by the augur was based on observing the flight and behavior of birds. What an advanced society those Romans had, where behavioral biology was the basis for all decision making! So where were the birds last Monday? As I think of it, the crows did not caw, a good sign I think, and the pigeons stayed away, another great indicator of bad things not to come. A few professors had on Harvard robes, but the crimson did not seem to attract hummingbirds. May be that was not so good, but Hummingbirds are so small that their absence could not signify much trouble. In fact, as I think of it, pretty much everything seemed copacetic on the avicular front. So there, although we did not have an official augur the lack of avian protest surely was a sign that all was right, it was the right time, the right place, the right move.

Those of you who were not able to attend have missed some great presentations. Our very independent David Stevenson delivered the welcome on behalf of our very independent faculty. There were greetings on behalf of the Undergrads and the Grads, messages from the greats of the World, even from Politicians in spite of Baltimore's confession about his thoughts on politics. Also a most informative and warm talk by Maxine Singer,

a scientific colleague of Baltimore's, and the President of the Carnegie Institute in Baltimore, whose Department of Terrestrial Magnetism has been doing superb Biology. Of course the lives of the Carnegie and Caltech's have been intertwined for years, as they shared responsibilities for Mts. Wilson and Palomar and have Ellery Hale in common. You have seen Hale on his granite pediment gazing either at Mt Wilson (so goes the lore) but I think he is really interested in the goings on at Beckman Auditorium. Be that as it may, go on the web to read President Baltimore's plans for the future of Caltech as he and us embark on this next leg of the Institute's journey.

But even as we embark on a new era, life at Caltech goes on. I hear that there is a case, which has been heard by the Board of Control and has led to a controversy, because many feel that the protection decision reached by the Board is inappropriate. What is surely inappropriate is to discuss any case here, in public, since one of the fundamental tenets is that the privacy of the people involved needs to be protected at all costs. I am also concerned that decisions by the BoC be contested and that attempts are being made at circumventing them by popular, but not necessarily well informed, demands. With that, to all of you best of wishes on your final exams and see you for the third term.

A bientot.

Jean-Paul Revel

More Coffeehouse letters...

To the Editors,

I've seen the recent controversy in the Tech about the Caltech CoffeeHouse. As a past manger/waiter I thought I could add more food for thought.

I started waiting at the CoffeeHouse not too long after the CoffeeHouse's historic move to its current location. There was still some lingering rumbling about how moving it on campus ruined the feel of it. Like all change, it was met with resistance. Yet with students and staff working together it managed to survive.

A bayou man named Earl Taylor was head manager then. Old E.T. was the best of the 5 plus head managers I worked under. He ran a tight ship, and most importantly, a clean one. He had a motto: "If ya got time 'nuff ta lean, ya gots time 'nuff ta clean!"

Too bad about Earl though. He flamed. Big ball of fire. I'm talking supernovae here.

I don't know if being the head manager was the sole cause of his premature departure, but I'm certain it didn't help him much academically. However I don't feel that that relates much to the CoffeeHouse. After all E.T.'s back in Cajun country, happy as a feck.

What was important for the CoffeeHouse was that the next head manager was not as vigilant when it came to stomping out grime. That was a problem under each new head manager I worked with. It was always corrected eventually but during those transition times sanitation levels were suspect to say the least.

Another phenomena that I notice with each head manager change was the increase in personnel from

his house. Generally shifting the CoffeeHouse atmosphere to reflect the house that he was from. However, that was probably a good thing. That way it varied from year to year which houses felt alienated and didn't frequent the CoffeeHouse as much.

Now having a head manager down in the pits every night, that's a new one. A non-student too. Wow, big change! I guess that's why we see the big resistance.

I'm sure having a non-student head manager working every night would change a few things. I'm sure someone like that may have suggested to Brooks "The Bastard" Bishopberger that creating a chili that only 0.5% of the world's population could stomach may not be the best idea. Maybe "The Bastard" added to the nuances, that creates the atmosphere, that makes the

CoffeeHouse so special. Or maybe old Brooks was a maniac that needed to be reigned in. It's a tough call.

I got a hundred stories about the "neat" things we did. Fun with the decor, the courtyard, the T.V. room and the food. Things that added flavor, created atmosphere, and made it a cool place to hang out. Things that were, at times, a tad wasteful. But the kinds of things you grow to expect in a student run CoffeeHouse.

When you think about it though, how "student run" can the CoffeeHouse truly be. I'm sure the students aren't pumping in the tens of thousands of dollars that the CoffeeHouse needs each year to break even.

A staff member could eliminate problems associated with the

SEE LETTERS ON PAGE 3

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Protest mounts on 710 extension

By TECH STAFF

A march in protest of the 710 Freeway Extension took place in Southwest Pasadena, the morning of Saturday March 7th. Approximately 500 people took part in the event.

Marchers met at Singer Park at 9:30a.m. the day of the even, carrying signs protesting the proposed extension. The mayor of South Pasadena, Paul Zee was there to welcome them. The South Pasadena High School band provided the beat for the march which stretched down Pasadena Avenue towards El Sereno.

The plan is to extend the 710, also known as the Long Beach Freeway, to close the gap between the 10 (San Bernardino Freeway) and the 210 (Foothill Freeway). The proposed extension would be eight lanes wide, two of which would be High Occupancy Vehicle (HOV) lanes. Large trucks would not be allowed on the extension. Proponents of the extension hope it will alleviate traffic problems in the area.

Opponents of the exten-

sion, which include a various number of organizations from local groups to national environmental organizations, see the traffic benefit as only minimal. Furthermore, they are upset that the extension would destroy over 1,000 properties and kill over 7,000

weakening or even destroying the area's autonomy. They suggest many smaller alternatives that would cost less.

The California Department of Transportation (Caltrans) claims that in the current state, traffic density is polluting the air in residential areas. In addition, Caltrans has offered to relocate and restore 17 of the historic buildings.

The plan is to remove 1,426 properties, 599 of which are in South Pasadena, 675 in El Sereno, and 152 in Pasadena. Caltrans estimates that the extension will carry 218,000 vehicles per day by the year 2010.

State Route 710 was originally planned in 1949 as one of a series of Los Angeles Freeways. Opponents to the freeway have been protesting for about 30 years. In 1979 it was halted by a federal court injunction pending an adequate Environmental Impact Statement by Caltrans. In 1995 the NAACP and the National Resources Defense Council filed a lawsuit charging state violations of the federal Civil Rights Act and non-compliance with several federal laws designed to prevent environmental injustice. The suit claimed that the extension destroyed low income minority homes in preference.

Alternatives proposed by the opposition include extending the 710 to Mission Road and then connecting it with arterial roads to diffuse traffic, constructing a new offramp serving Cal State Los Angeles, use of the Blue Line between Los Angeles and Pasadena, and reselling Caltrans acquired houses in the 710 extension area to fund more alternatives.

mature trees. Over 50 of these properties are on the National Register of Historic Places. Some of the trees are over 100 years old. Also, they claim that the displacement of that many families would reduce South Pasadena's tax base by eight to ten percent, thereby

Dear Editors,

In all the (printed) discussions about the Coffeehouse, what is missing is the consideration that the students who work there presumably need the money. I used to be a waiter (and headwaiter) in Ruddock in the early sixties. We worked in lieu of paying for board. We needed the money and being laid off was a financial hardship. Any reorganization of the coffeehouse should address the financial impact on the student workers. I am surprised to read the current discussion, which appears to indicate that eliminating five shifts was no big deal.

D. A. Papanastassiou
Alumnus, 1965, GPS

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The Outside World

by Myfanwy Callahan

JERUSALEM, ISRAEL - Israeli soldiers shot and killed three Palestinians at an army checkpoint Tuesday setting off riots in Hebron and Dura. 16 Palestinians were wounded in a Hebron riot in which soldiers shot rubber-coated metal bullets at the rioters throwing rocks and firebombs.

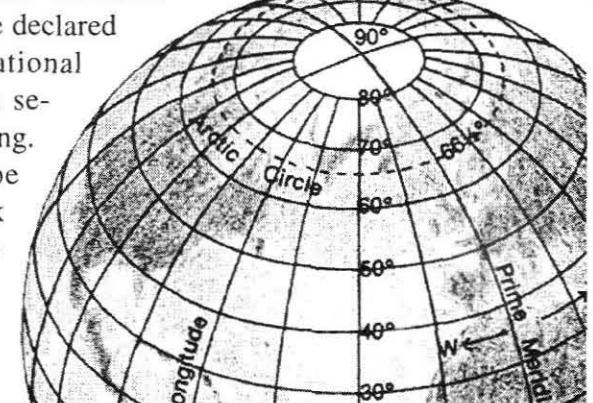
JAKARTA, INDONESIA - In a unanimous decision by the 1000-member People's Consultative Assembly, President Suharto was elected to a 7th term. He has not yet agreed to economic reforms which the International Monetary Fund demands in return for a \$40 billion emergency package. In a public speech he warned Indonesians "...we can no longer afford to lead the extravagant life."

PRAKAZ, SERBIA - Serbian police seized the bodies of 51 Albanians killed in an attack on Kosovo separatists and buried them in a mass grave Tuesday. Survivors subsequently exhumed the bodies to rebury them with Muslim ritual. The Red Cross, which served over 50 villages, is removing its staff from the area due to death threats. No independent observers remain in Kosovo.

BEIJING, CHINA - Relocation of the first 100,000 people of a projected 1.2 million to be moved to make way for the massive Three Gorges Dam has met with difficulties due to inadequate compensation and a shortage of new jobs and farmland. Opponents of the project hope that the new Prime Minister Zhu Rongji will down-scale or even completely abandon the project as costs and logistical problems swell.

VALPARAISO, CHILE - Chile's former dictator, General Augusto Pinochet, assumed a Senate seat Wednesday, while thousands of protesters gathered outside the Congress. The position will protect him from prosecution for crimes committed during his 17 years in power.

WASHINGTON, D.C. - Six Iraqis who worked with the Central Intelligence Agency in several plots against Saddam Hussein were declared



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ASCIT

Election Results

Prop. #4077, Redefinition of Exec Social Committee — PASSED

Prop. #8675309, List of Elected Officers — PASSED

Prop. #314159, Deletion of Athletic Manager Office — PASSED

Prop #227, Avery House Ballot Box — FAILED
Respectfully submitted,
Peter J. Freese

ASCIT Election Chairman

126 people voted, and there were 3 error points. Amendments need a 2/3 majority to pass.

Prop. #4077 - Exec. Social Committee

Yes 84, No 29, Abstain 13, Needed 78

Prop. #8675309 - List of Elected Officers

Yes 96, No 18, Abstain 12, Needed 79

Prop. #314159 - Deletion of Athletic Manager

Yes 84, No 30, Abstain 12, Needed 79

Prop. #227 - Avery House Ballot Box

Yes 55, No 70, Abstain 1, Needed 86

Voter turnout by house: Blacker(41), Daabney(20), Fleming(11), Lloyd(18), Page(6), Ricketts(13), Rud(dock)(17)

A.S.C.I.T.

Minutes

4 MARCH 1998

Present (at some point): BoD (minus Alex), Kiran Shekar, Steve Michael, Mohi Kumar

Meeting called to order at 22:34.

Dealing with Guests

Kiran—The **Guns and Roses** pinball game got pulled from the SAC arcade because somebody complained about its sexist depiction of women. The BoD votes in favor of sexist depictions of **women**. **Baldeep** will talk to whoever he has to in order to restore naked chicks (not counting **Jasmine**) to the SAC.

Mohi—Is writing an article about the Coffeehouse and needs ASCIT input. She can get our opinions after the meeting.

General Business

Coffeehouse—**Steve**, **Autumn**, and **Baldeep** met with **Tom Mannion**, **Lee Reavis**, and **Gina Armas** on Tuesday. The bottom line of their discussion is that control of the Coffeehouse and the Physics Department will be turned over to ASCIT as soon as we can organize the transition. This will probably happen by first term next year at the latest. The issue will be tackled at the forthcoming Capra retreat. Expect to see more

doughnut questions in Ph1.

Moving—**Tom** mentioned that ASCIT might be able to move into the International Student Affairs office when they move out. Sweet.

Baldeep told **Gina** that the BoD doesn't want to move into a temporary office while in search of a better flat.

Officer Reports

Steve—Has gotten back three budget proposal forms already. All of the clubs have been contacted and the agenda for the budget meeting is being created.

Autumn—Tallied the information from those budget surveys. You people really like doughnuts. Getting the Capra details from **Kiran**.

Jasmine—Setting up a Social Team training meeting with **Sue Friedman** from Res. Life. It will probably be sometime in early April. The training will cover such topics as: Intermediate and Advanced Vomit Mopping, Tequila Dos and Don'ts, and Where the Hell Do I Get Those Stupid Forms? The ASCIT fog machine is available for rental.

Jasmine vows to maintain a plentiful supply of fog juice.

Devi—Talked to **Kim Douglas** of the SFL. The library can be open until 04:00 during exam periods. The CLUE may be out by midterms of next term. **Devi** will meet with **the Dean** soon to talk about the ombuds system. Most of the mid-term surveys that were returned were for

upper level classes that don't have ombudsmen. A lot of the information was constructive and will impact finals in those classes.

Jaideep—Tomorrow the IHC will talk to **Keith "Under the Piano" Counsell** about AC and cable, start amending the IHC documents to include the Athletics Manager, discuss the Coffeehouse affair, and look over the Spring off-campus picks procedure. ASCIT used to subsidize athletic jackets. **Audrey** is soliciting interest in jackets so that she can present a proposal at the budget meeting.

Rob—Working on a money form and figuring out where all those mysterious material transfers come from. Come and get your club funding, you ungrateful peasants. The Publication finances are a mess. Once all of the business managers are in place, **Rob** will start getting things sorted out.

Mike—Embosser. Letterhead. Computer. Door. Wire drop.

Baldeep—Hasn't had any time yet for talking with the ESC/Gnomes. He is willing to dump this project on someone else who has lots of spare time. **Alex** volunteers. Talked to **Glen George** about getting course credit for programming a book swap site. **Shep** doesn't want us to appoint the new *Totem* editor until later this year. Going to the Alumni Association meetings on the 13th and 14th. The APE house got the old ASCIT furniture. We hope we can reclaim it without any paperwork. **Baldeep's** "grand vision" article for the *Tech* is unstated. ASCIT will be eating with **Tom Mannion** sometime soon.

Meeting closes at 23:39. The BoD votes on appointed offices:

Election Chair—**Peter "Nicholas Breen" Freese**
Tech Business Manager—**James "Cheesestick of Love" Glore**
Movies Chair—**Amy "Extra R" Barr**
Totem Editor—**Iljie "Nickname" Kim**
little t Editor—**Valerie "Fork in the Eye" Anderson**
little t Business Manager—**Vanessa "Admiral of the Ocean" Sih**

Meeting adjourned at 00:08.

Respectfully submitted,

Michael D. Astle
ASCIT Secretary

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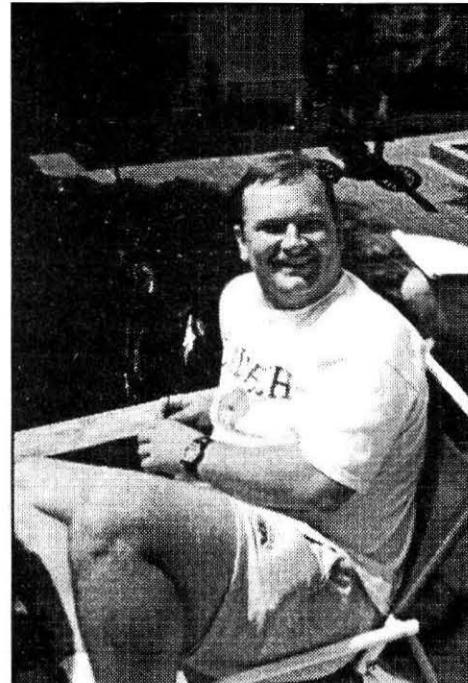
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✓ ASCIT Election 1998 ✓

ASCIT VICE PRESIDENT / BoC CHAIR

Kevin Bradley



Hello Techers,

I'm now running for Chairman of the Board of Control (and ASCIT V.P.). I know, I know, you're saying to yourselves "But you're already BoC Secretary." That's true, but I think that is exactly why I should now become the BoC chair. I have the experience of being on the Board as a Rep (from when I was BoC Rep-at-Large) and being on the Board as an investigator (from my time as Secretary). I've seen what it's like from both sides and I feel I have what it takes to do the job of BoC Chair. I can conduct investigations, speak with witnesses, talk to Profs and TAs, run meetings of the Board, and inform the Deans of the decisions the Board reaches. I can do all these things because I've already done them as BoC Secretary. All I need now

is a few measly votes from you guys, the little peop...Uhhh... my fellow Techers. So get out there and vote for me to be the Board of Control Chair. Thank you.

Kevin Bradley

Alan Rosenwinkel



Duties

I'm sure you are all familiar with the official duties on the BoC chair as described in the honor code handbook. However, there are a number of duties that are not spelled out which are among the most important. Often the BoC chair is one of the few returning members of the Board. This means that the Chair is responsible for keeping some consistency in the decisions through the transition from the old board to the new. It is also the Chair's responsibility to ensure the quality of the decisions. By this I mean ensuring that all relevant issues have been discussed before any decisions have been made. Without the proper guidance from the Chair, new Boards are very likely to make decisions that are significantly more severe than the decisions of past Boards. It is also extremely important that the BoC chair be available and willing to mediate problems that are not necessarily honor system violations or to be a source of information as to who is best able to deal with specific problems students may face. It is the ability to perform not only the duties outlined in the Honor Code Handbook but also these added duties that makes a good BoC chair.

Qualifications

In order to be a good Board of Control Chairman, you must be excited about the doing the job and you must be qualified. To the former, there is not much I can say other than I am very enthusiastic at the opportunity of performing the duties of Board of Control Chairman. As to the latter, in high school I served for two years on the Honor Council. This is a very similar body to the BoC except that both students and faculty are members. After coming to Caltech, I became familiar with the Caltech Honor Code as Lloyd House BoC Rep. Through these two positions I have had many experiences that have prepared me to be the Board of Control Chairman.

Goals

The Board often meets for up to ten hours at a time. When board meetings do not begin until

late in the evening, they can last until four or five in the morning. This means the Board ends up making its decisions while the reps have been awake for fifteen or twenty hours. Would you want the fate of your Caltech career being decided by nine sleep deprived BoC reps? As BoC Chair I will avoid these late night meetings by breaking and reconvening the next day, and by scheduling meetings such that they begin earlier in the day. The BoC is responsible for educating the Caltech community about the Honor System. This entails not only going to frosh camp, conducting freshman BoC and third term BoC talks, but also educating the faculty about the Honor Code. Very little is done to this end, the responsibility of which falls on the BoC Chair. The Chair is in a unique position to do such education not only because of familiarity with the Honor Code, but also because the respect the Chair commands among the faculty will make them more receptive to the Chair's input. As BoC Chair I will insure that new faculty are formally introduced to the honor system with more than a copy of the Honor Code Handbook. I will speak with current faculty to ensure that they give us the trust which we earn. I will also work with the Graduate Review Board to make sure that the graduate students know how seriously we take the honor system.

Alan Rosenwinkel
alanr@cco.caltech.edu
Lloyd 228, x1405

The Vice President shall, during absences of the President, assume the duties of that office. He shall act as chairman of the Board of Control. He shall assist the President in coordinating the policies and activities of the Associated Students. His primary responsibility shall be to insure the continuance of the Honor System among the students. He must be either a junior or a senior in the fall term immediately following his election.

Leonard Sung

In the ideal Caltech world where the Honor Code stands true, there would be no need for the Board of Control. However, in reality, the Board of Control must exist in order to enforce the Honor Code and nullify those who have breached it.

The Honor System is embodied in the phrase "No member shall take unfair advantage of any member of the Caltech community." I believe that it is very difficult to defend this concept and prosecute those who have breached it. The Board of Control can follow a very strict and anal interpretation or it can follow a loose interpretation and practice common sense. This interpretation will undoubtedly vary from case to case and it will solely depend on the attitude of the Chairman and possibly the Secretary because they present the case that is to be brought before the entire Board against the accused.

The Chairman must be a saint who can see everything objectively and thoroughly without a tint of bias or prejudice. The reason is that the Chairman can influence the Board by controlling the evidence that needs to be presented on a need-to-know basis. As a result, the Chairman can act as a prosecutor in a case where he or she has a bias against the accused or a protector of the accused if he or she has a bias for the accused.

I am no saint and thus, I do not think that I am qualified to become the Board of Control Chairman. I do not think any undergraduate student should because we all have biases against each other in our hearts.

Let me tell you a story:

Once upon a time, there was a naive Caltech freshman called Leo who believed that all Caltech undergrads were trustworthy and honorable. Leo was a happy boy who got accepted to this house called Llyd where he became the athletic manager as a freshman and everything was fine. Then for some reason, in his sophomore year, Leo's roommate, Ben, got pissed at Leo. Leo was also pissed to the point where they could not live with each other. Ben got the sympathy of Llyd where they decided to conjure a plot to remove Leo from Llyd because he was mean to Ben. So the Llamies of Llyd discovered the crossword puzzle on the Classified Page of the LA Times were missing on a daily basis. With the help of Ben, they discovered that Leo was the culprit. Now they needed an excuse to read the Classified section. These Llamies got together and brainstormed reasons like a car for Judy, an accordian for Andy, and a life for Ben; so they went to the President, Steve, and begged for his help.

Steve, being a friend of all, went to Leo and they made a compromise that he can photocopy the puzzle using the ASCIT copier. The compromise worked until the copier broke over Spring Break. Stupid Leo started taking the puzzle again over Spring Break. However, in math class on the second day of classes of the new term, he was caught by Lois Lane, Christy, who reprimanded bad Leo. Leo cried and he said he won't do it again, so he stopped. Super Steve came and asked Leo, "What's up?" Leo told him the ASCIT copier was broken so Leo took it. Steve, angry at this situation, went to the BoC who was run by a fellow Llamie, Maria. It took two weeks for Maria, Matt, Steve, and Christy to conjure a plan to BoC Leo. Leo testified in front of Maria and Matt and told them his side of the story.

When Leo was called in for his hearing, he was given only two days notice. Leo also knew about the deliberate waiting period of 1-6 hrs (depending on how much they like you) so he tried to reschedule it because he didn't want to take an extension. Leo didn't believe in taking extensions for non-medical excuses because it was an Honor Code violation to him. More importantly, Leo trusted Maria and Matt and he hoped that all that he had told them would be brought to the Board of Control.

When Maria told Leo that he was convicted, Leo didn't realize that he had voluntarily waived his right to a hearing. Leo was pissed, but the Rod the Dean gave Leo a verbal ass-whopping the size of Mississippi. Leo became a scared wimpy limey and he disappeared from Llyd and the undergraduate community. Leo was shocked to find out that some evidence

no photo submitted

he told Maria was never brought to the attention of the entire Board.

Now Leo didn't worry about the conviction until he tried to apply to Law Schools. Despite his modest credentials, he thought that he had a chance at the competitive schools. However, some of those schools asked if he were ever disciplined. The Dean is required to report the crossword conviction to the schools and Leo was required to do so also. The Dean tried to make it seem very minor, but this minor offense has become a major one because it was ridiculous and unjust, and it placed Leo at a severe disadvantage when applying to these competitive schools.

As a result, Leo became really, really pissed so he confronted Rod and Maria. He was then arrested by Caltech Security and involuntarily sent to this unknown place, which was a mental hospital where he was diagnosed with a manic depressive illness. Leo was lucky to get out two weeks later but he cannot confront Maria or Matt. And yet, Maria's witchhunt and conviction without a proper hearing prevailed because she was the Board of Control Chairman. When Leo had new evidence for her during that time, she refused to reopen the case.

The fact of the matter was that Leo didn't get convicted for taking the crossword puzzle. He was convicted because he didn't follow the strict orders of the BoC and couldn't attend their kangaroo court, which was a waste of time and energy. He was disciplined for his "attitude," which is the same attitude he has now.

Anyway, that's just my opinion. I may be wrong.

Now you may ignore this and laugh like a Llamie, but the Maria, the BoC Chairman cannot BoC people and attempt to convict people arbitrarily with the bias of Mark Furman against people she doesn't like. Heck, if I were the Chairman, I'd like to BoC the Llamies who took all the Law 133 finals this term for their friends who didn't show up for class because they put the rest of us who showed up and didn't get one at a disadvantage. But, I can't. It's just wrong.

But I don't care anymore. There has always been a Llamie or a Mole as the BoC Chairman since I've been here and I know why—to cover up the corruption, scandalous, and defamatory convictions they've done against honest people based on arbitrary and questionable evidence and accusations. Even though the BoC tries to keep everything confidential and secretive like the Gestapo, I was able to talk with several convicted people who are pissed at their tactics and rightly so. I hope that you understand that I do not believe that every Lloydie is a Llamie. There are good people and bad people in every House.

But I won't get elected. The BoC will print a statement to nullify mine by labelling me as a liar. More than 90 Llamies will vote like last time when I tried to run for BoC secretary and they'll get their friends from other Houses to vote for the two fellow Lloydie running. And one of them will win and perpetuate this system for generations and generations. The moral of this story I guess is, don't piss off a Llamie or they'll BoC you. They have the power, and the rest of you don't give a damn.

**The election for
ASCIT VP / BoC Chair
will be held on
Monday, March 16,
from 10 a.m. to 10 p.m.
(Yes, during finals week.)**

INAUGURATION

New President David Baltimore's inaugural address

Inauguration Numbers

**Nobel laureates
present: 8**

**Crafoord Award
winners present: 2**

Balloons: 8,000

**Inches of rain in
Baltimore on March
9: 1.14**

**Undergrads in
academic dress:
Kohl**

**People attending:
2,000**

White chairs: 2,600

Flower pots: 57

**Words in Baltimore's
address: 2,585**

**Ex-Presidents
attending: 2**

**Total number of
Caltech Presidents:
6**

**Feet of fun-noodle-
like things through
the olive trees:
3,600**

**Months Baltimore
has been at Caltech:
5**

**Oldest university
with a delegate
attending: Oxford,
1213**

Representatives of academia, elected officials, Chairman Moore and other members of the Board of Trustees, former Presidents of Caltech, alumni, associates, members of the faculty, students, staff—including all of the Jet Propulsion Laboratory personnel attending electronically—former trainees from my over 30 years in research, friends and members of this great community, I thank you all so much for being here today.

Universities are enduring institutions. They go to great efforts to mark the transitions of their leadership with the honored and historic ritual of an inauguration. But the truth is that they change slowly, and new chief administrators do not alter that measured pace. Thus, this overwhelming event, marking such a deep change in my life, marks but a slight deflection in the established trajectory of this great institution. My deepest goal as president is to maintain the essence of Caltech while helping it adapt to a changing world.

I want to begin this address by thanking all of the members of the Caltech community for the warm welcome that Alice and I have received. You have helped a pair of inveterate Easterners become members of two unique societies, the society of Caltech and the society of Pasadena. These are historic communities with deep and wonderful values, and we are so glad to have joined them.

As an outsider here, I've spent the last five months learning as much as I can about Caltech. I wanted to comprehend the institution well enough to be able to help it solve the inevitable problems that I know will arise. But more importantly, I wanted to develop a perspective on Caltech that would allow me to choose the key elements on which to work with the faculty—to establish priorities.

What I found is a most remarkable institution. The depth of scholarship, the rigor of training, the commitment to the highest ideals of personal behavior make Caltech a very special place. It manages to cover an extraordinary range of scientific and technical areas with a minimal faculty. It has provided so many new excitements for one trained in biology that it has been a continual feast for me, and I know that there are many more fine meals awaiting me. It is an institution that seemingly lacks a crisis, allowing me the luxury of a long period of contemplation. For this respite, I owe much to the sensitive stewardship of my predecessor Tom Everhart. I stand in awe of Caltech's pantheon who built this rare institution: Everhart, Goldberger, Brown, DuBridge, Millikan, Noyes, and Hale. What an act to have to follow.

As I have gathered knowledge about Caltech, questions have occurred to me whose answers can provide perspective for setting priorities. That is the position I'm in now—many questions, few answers. Thus, I thought I would frame this address around the questions. It is an open invitation to the many constituencies on the campus to participate in a dialogue—the Board of Trustees, faculty, administrators, students, staff, alumni, and the various friends of Caltech who provide support. Thus, I will in this talk pose a number of questions, explain why I raise them, and draw out some of their implications.

The first of my questions is whether Caltech is truly immune from the winds blowing through American academic life. I raise this because the last decade has been a stormy one for academia, with many questioning the very basis of scholarship in both the humanities and the sciences. The question might be whether by focusing on science and technology, Caltech hews to eternal truths, or whether the self-criticism that the intellectual world has embraced in the last decades has spilled over into our bastion of rationality. The answer I suspect most would give here is that while the culture wars and the science wars have been furiously engaged on the streets of Berkeley, New Haven, Cambridge, and Paris, in Pasadena the progress of science continues quietly and unabated. Not that we don't reflect on our activities or even have our

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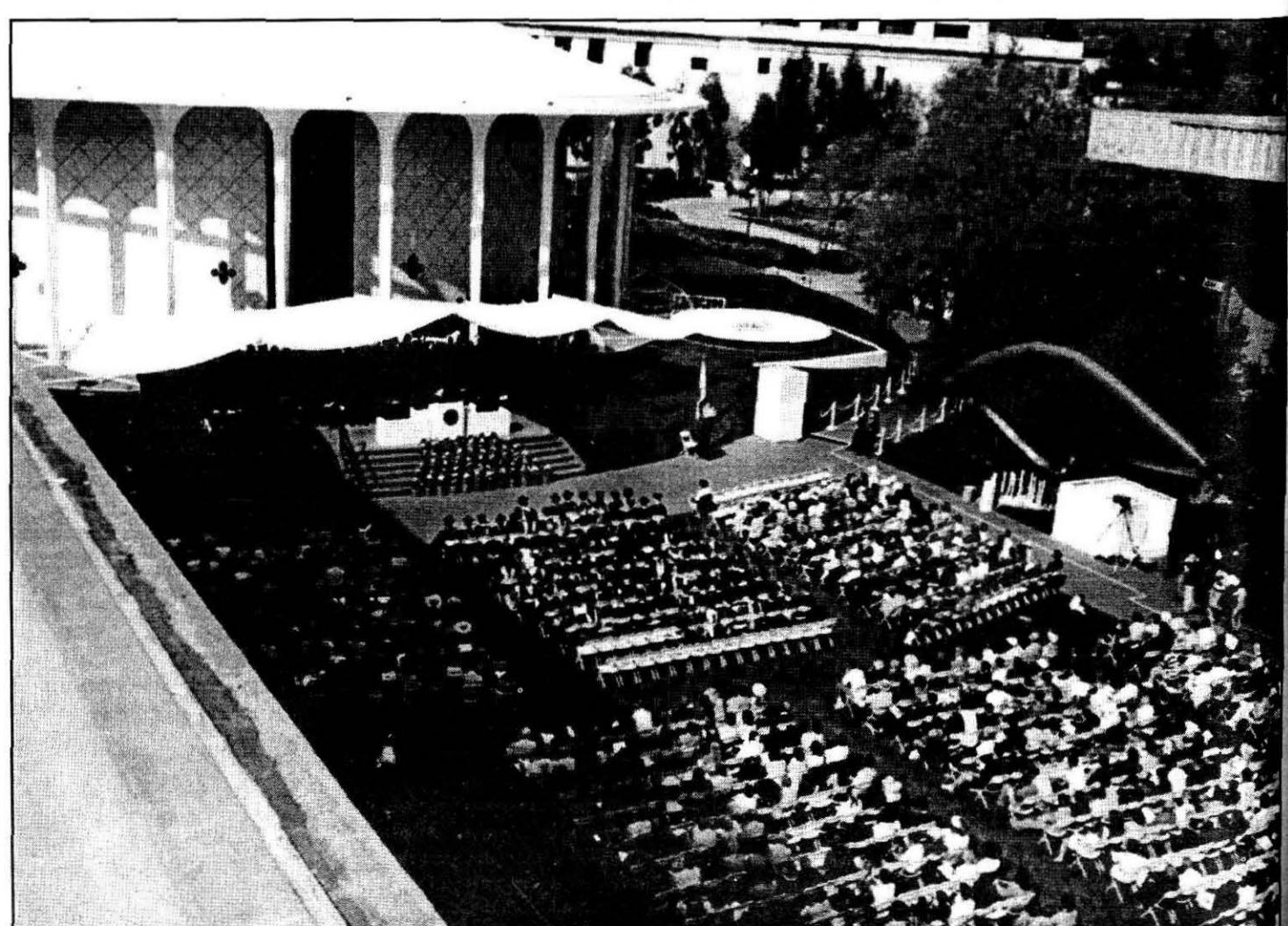


Stephen Hawking was the honorary marshall for the delegates from academic institutions and learned societies

participants in the wars; we have all of that. It's just that we have absolutes in which we believe. We have absolute zero on the temperature scale; we know that nothing exceeds the speed of light.

It is interesting to contemplate what would happen if our astronomers measured a red shift indicating that a galaxy was receding from us faster than the speed of light. Or if we somehow recorded a temperature of absolute zero, or made a perpetual motion machine. In these situations, the experiment would receive the deepest scrutiny and only in the unlikely case that it survived would theory come into question. Remember cold fusion. But we are willing to question our absolutes. Our absolutes are not so absolute—they await an experiment that contradicts them. They are tentative absolutes, and we are comfortable with them, needing no daily reminder of the threat that each experiment poses to our comfort. That is the culture of science, and it is a special culture that we live with, we teach, and we believe in almost as a religion. It is a culture that is incomprehensible to those who have not manipulated the concepts of science. It insulates us from many of the self-doubts of the larger intellectual world and allows us to move forward.

However, we should not be too complacent. Major changes are coursing through academia. They are not the intellectual challenges from which our culture immunizes us; they are technologic developments and an increasingly market-driven approach to education. We are already responding to these new pressures, incorporating technology and looking carefully at our costs and price. We are in a favorable position economically because of our relatively low dependence on tuition. In fact, we are already rated the best buy in education. Furthermore, we have a special product, and right now the world wants to buy it—applications are up some 20% again this year. The world realizes how well we



prepare young people to be scientists and engineers—the honor code and the small number of students makes learning a shared experience of great intensity, while our laboratories provide the hands-on experience that is the essence of science. However, we cannot be complacent; we need to rethink our values and our value continually in the context of other opportunities available to students and other modes of education.

Let me turn from an abstract question to a concrete one. "Is Caltech making a sufficient contribution to the economic life of America and especially of Pasadena?" Years ago, Caltech was the scientific and technologic engine that drove the development of the aeronautics industry in Southern California. There is much new energy in Caltech that could repeat this success. The opportunity level is particularly high at JPL, where necessity breeds invention on a monumental scale. We have begun to release our energy of innovation to benefit the local community and the country, but there is much more we could do. What happened in aeronautics could happen again in chemistry, biology, computer software, electronics, and other fields, if we provide the right catalysis. Why have Stanford and MIT and even UCSD become engines of economic growth and Caltech, surely as fecund, lives in a city with minimal high-tech influence? The politics of Pasadena are certainly an issue, but couldn't Caltech have more impact if it committed itself to this goal?

Another of my questions is one I have raised publicly already, "Are we actively enough engaged in promoting diversity on the campus?" I phrase this as a question, but I have made it plain that I personally believe that a campus that better mirrors the demography of America is desirable.

Increased diversity has three benefits. First, it brings the particular values of a Caltech education to a part of the American public that too rarely has such an advantage. Second, it assures that other students at Caltech develop an appreciation of the variety of cultures that make up America, better preparing them for an active role in American life. Third, through educating a wider mix of students, we contribute to the stability and effectiveness of our democratic society. I would remind you that African Americans, Latinos, and American Indians account for one third of the children born in America today. Meanwhile, there is an ongoing backlash against affirmative action that is spreading through the nation. Minority graduates in engineering have increased from a few hundred per year in the early '70s to 6,000 per year today. That's a great achievement, but it is still far from parity, and improvement will require continued efforts.

Another aspect of the question of diversity is the slow increase in the fraction of women at Caltech. What do we need to do to accelerate that trend? The mandate is there: in the student life survey, both men and women at Caltech wanted a higher fraction of women students on campus.

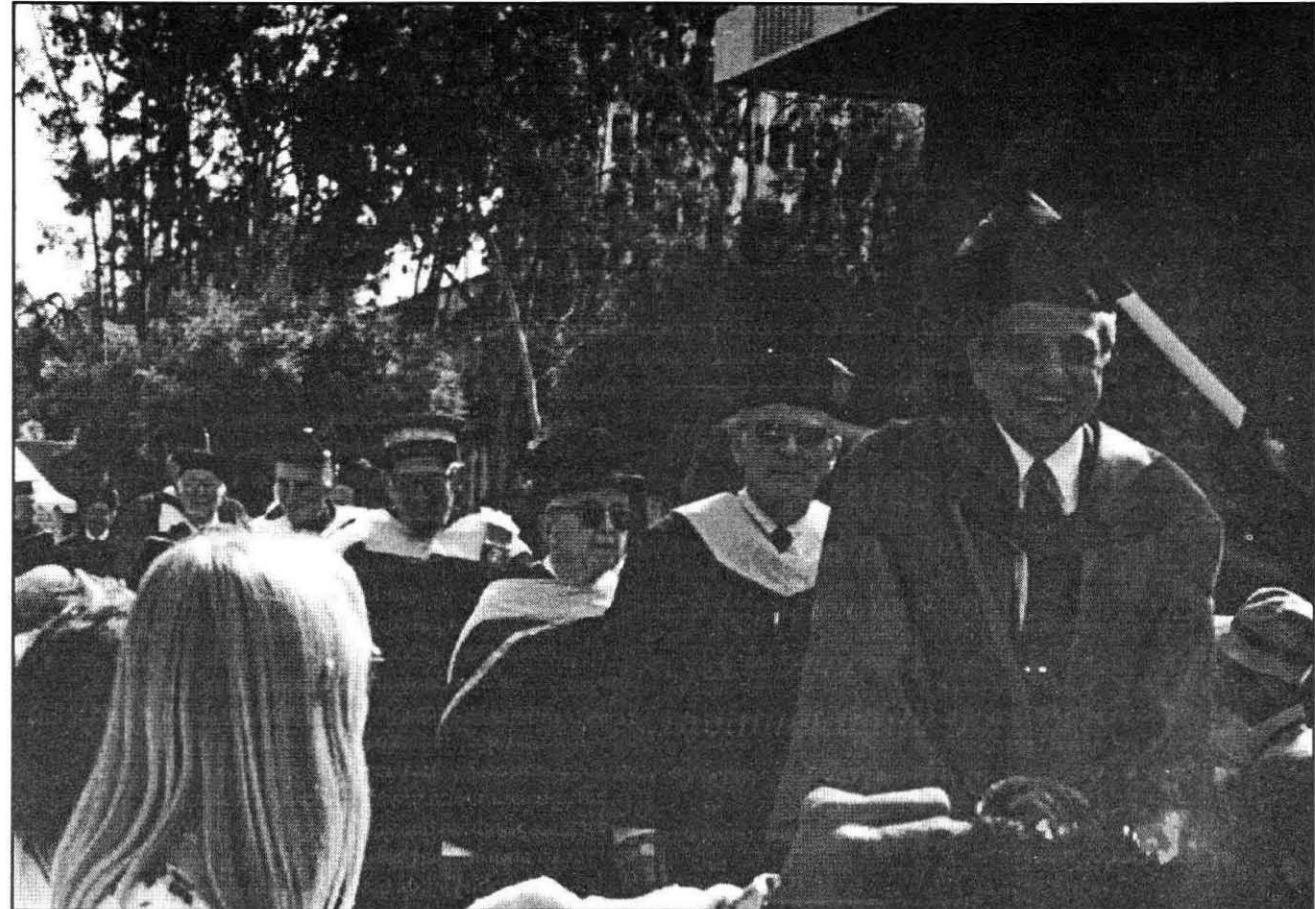
Caltech has for years recognized the need to focus on issues of diversity and has made great strides. However, it is an unfinished agenda, and a difficult one—only thoughtful analysis and committed effort on the part of the entire campus will make it happen. Caltech's small student body means that tuition is a small part of our total income. Furthermore, we already give financial aid to some 70 percent of our students. Therefore, we are in a particularly good position to use our financial resources to shape our student body. Also, we need to remember that financial matters are only a part of the equation: we also must ask ourselves whether the campus is welcoming, stimulating and supportive to a diverse student body.

In passing I referred to Caltech as a small school, and that is certainly the self-image of this campus. However, interesting things emerge when you ask, "In what sense is Caltech a small school?"

There are many mantras specific to this campus but none is as pervasive as the statement, "Caltech is a small school and wants to stay small." From that short theorem many corollaries are drawn. It can become an argument for not taking new directions, for not hiring more faculty, for not adding to the student body, for living with a less-than-critical mass of talent in many areas of science and engineering. All of this to maintain the wonderful and very real values of smallness—collegiality, encouragement of interdisciplinary efforts, focus of activities, esprit. However, in reality, Caltech is actually small only in its numbers of students and faculty. If you compare Caltech to other research-intensive schools, it has the highest ratio of space to faculty or federal support to faculty or probably any other measure of the amount of science done per faculty member. Because of the huge off-campus facilities run by Caltech, the enormous plant on the campus, the many talented members of the staff who are wholly involved in research, and the postdoctoral fellows, Caltech is a lot bigger than it might seem. And it is growing. Under Tom Everhart, there were eight buildings put up that increased the square footage on campus by 20 percent, while the budget increased by a real 32 percent. During the same time, the faculty increased by 6 percent, but actually it was still at a lower level than at an earlier peak. Another aspect of Caltech's size is JPL. It has a budget almost four times that of Caltech and is growing.

Caltech is not really small, it is just balanced differently from other schools. We keep our faculty and undergraduate student body small and reap that harvest. But meanwhile we allow the ratio of our activities to our faculty to grow continually. I think we need to question ourselves about the implications of this growth. Are we maintaining sufficient control over our growth? Is it affecting the life of the campus? How can we safeguard the values of smallness?

Let me turn to the direction of the students. Here I have wondered, "Does Caltech sufficiently develop those aspects of the lives of its 20-year-old undergraduates that will allow them to become thoughtful, balanced, productive members of society?" It is a question that I ask as I visit the Houses and meet with student leaders. It is a question that I hear from alumni, many of whom seem to feel that they en-



Nobel and Crafoord Laureates, led by Rudy Marcus, process through the Court of Man to welcome Baltimore.

...I have wondered, "Does Caltech sufficiently develop those aspects of the lives of its 20-year-old undergraduates that will allow them to become thoughtful, balanced, productive members of society?"

dured their undergraduate days rather than enjoying them. It is a deep question about value systems. Each Caltech professor feels that his or her area of teaching is critically important to the development of students and that leaving out any of the glory of the field is a crime. For the students it becomes a life of trying to keep up academically with little time for personal development. We encourage sports, and have

great facilities. But we do less than other schools, even small ones, to encourage the creative arts as extracurricular activities.

The Caltech education concentrates on the products of rational thought. We skimp on the other aspects of society, ones like art and literature where the emotional and personal content is higher. We might seem to overlook those elements, but that's not really the message we are sending, because that's not the faculty I have come to know. We are collectors of art, devotees of music, readers of literature. Many of us consult outside Caltech and understand the multiple strains that contribute to modern life.

Maybe we could do more to bring that understanding to our students. It is not an issue of teaching more art or literature. My experience has been that you do not learn about the role of art or literature in classes because the classroom is intrinsically an analytic framework—you learn how to look at art, how to listen to music, how to understand the structure and history of literature. But the real reason for the arts, as a reflection of the complexity of life with its intricate mixture of rationality, passion, and history, is not taught but rather learned by experience in the world—often through intense interactions with others. Might the Caltech undergraduate experience, as wonderful as it is, improve with more time and opportunity for the students to grow as human beings? I need to hear more from the various constituencies on the campus about this issue. The alumni can be particularly helpful here.

Turning to the research side of Caltech, I have asked, "How can we justify our activities in a world that is becoming increasingly materialistic?" Caltech is a great undergraduate college and a superb graduate school, but the largest part of its activities is focused on research. And even though we have an engineering and applied science division, most of the research is at the most basic end of the spectrum. Our big instruments, like Palomar, Keck and LIGO, are all attempts to answer very basic questions, like the age of the universe or its very nature. JPL is more practically oriented towards the mechanics of exploring space, but its justification is space science, answering questions like whether life ever evolved independently of that on earth. A few years ago, pure science seemed under very strong attack, and the cancellation of the Superconducting Supercollider seemed the proof that America was no longer willing to support basic science. Remarkably, the tone of Washington has changed recently, and congressmen are vying for who can promise more to the National Science Foundation, the National Institutes of Health, and other agencies. Although the overall NASA budget is being reduced, space science remains strong. America has certainly become more materialistic: more students are going into business, admission to law schools is very competitive, and science and even engineering are not drawing interest among young Americans the way they did in the decades following World War II. However, as we become a richer and more powerful nation, the importance of science as the driver of commerce and the generator of good health has become increasingly evident, and thus science is re-

ceiving unprecedented support.

While taking advantage of the government's newlyfound interest in science, we need to remember and to reassert the values that have driven most of us into science. It is the rush of discovery, the excitement of being the first to uncover a new secret of nature, the satisfaction of seeing messy complexity resolve into elegant simplicity that drives most of the research activity on this campus. Luckily, basic science feeds the needs of industry, justifying its support. But it serves a higher function, that of demystifying the world, providing an orderly understanding of natural processes. When Time magazine features a scientific story on its cover, its newsstand sales soar. Science serves the need of people to understand the world around them, and that understanding is one of our finest products.

Although science is doing well now and has great public support, there are major issues to be faced. Congressmen can support science today because of the extraordinary strength of the economy and the possibility of a windfall from the tobacco industry. That could be ephemeral. Also, to take advantage of the available federal funds, we need to make major investments in the campus in space, facilities, and people. Thus, our dependence on private philanthropy remains as great as ever. We are lucky that Caltech has so many fine friends who are as committed as the faculty to Caltech's greatness.

I have said a lot about what I have learned about Caltech, but little about myself. Let me end on a more personal note. I deeply believe in the power, beauty, and comfort that comes from a rational outlook on the world. In my younger years, I hankered after a world in which rationality would conquer emotion and bring peace. It was reinforced in my early schooling—remember that I was in school in the post-World War II era, when the country was still basking in the glory of having defeated the irrationality of the Nazis and when the science and technology that had won the war for us were seen as the key to the future. Even the philosophy that then opposed America's

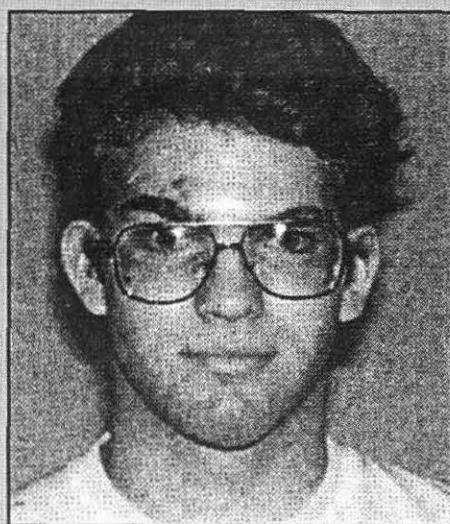
the Communist philosophy, seemed to come from a rational analysis of society and seemed a humane alternative to America's capitalist society, which was so hard on those who were unable to cope with its demands.

When you grow up with a worldview like that, there is a central aspect of society that makes no sense: politics. For years, I simply could not comprehend what the

I deeply believe in the power, beauty, and comfort that comes from a rational outlook on the world.

word meant. When people said that in making decisions, you need to consider both the rational elements of an issue and the political ones, I did not understand what they meant—why wasn't rationality enough? So my whole life since I left my parents' nest has been an education in irrationality. I've had to learn that you cannot deny the passions of people, you must accommodate them; that you cannot deny history, you must accommodate it. I think this is a perspective that all scientists who are willing to work within the larger society have to learn, and it is what sometimes limits the effectiveness of scientists when they do venture outside of their laboratories and institutions.

In the five months that I have been here, and in the preceding five months when I was in the wings, I have come to love Caltech. Its values are ones in which I deeply believe: honesty, clear thinking, hard work, a striving for elegance and novelty. Caltech does this as a community, not the loose-knit set of empires found elsewhere. The community is a rich one, including humanities, social sciences, mathematics and engineering, as well as the remarkable basic sciences. It is a rare one in the degree of excellence and commitment found at all levels, from the faculty to those who maintain the beautiful grounds. Part of this community is the Jet Propulsion Laboratory, a unique organization that adds a special dimension to the activities of Caltech. It is an honor and the deepest of responsibilities to accept the helm of this institution. Thank you so much for making my family a part of yours. Let us move ever forward, surmounting obstacles, increasing our reach and our influence, holding to our values and keeping Caltech the jewel of academia.

**The Big Lebowski**

The Big Lebowski is an incoherent yet electrifying wild ride through a Coenized LA, following the adventures of Jeff "The Dude" Lebowski (Jeff Bridges), a laid-back stoner bowler, as he navigates his way through a rich philanthropist also named Jeff Lebowski with a kidnapped trophy wife, the "Big" Lebowski's avant-garde artist daughter, a pederast bowling opponent, a pornographer, the Malibu police, a cowboy narrator, a dopey teenage car thief, and a gang of German techno pop musicians-turned-nihilists all because he wanted to find out why two thugs broke into his apartment and urinated on his rug. John Goodman is a riot as his manic 'Nam vet cum Jewish convert bowling partner, and the rest of

Adam Villani: Media Guy

the cast shines, even down to the smallest cameo. The Coen Brothers' latest film approaches the frenzy of their *Raising Arizona*, and is the funniest film I've seen in a long time.

A substantial number of critics have savaged this movie, and my only explanation is that they're too uptight to be comfortable with a movie like this that pulls out all the stops. Why is it that when Joel and Ethan Coen populate the screen with extremely mannered characters in expressively directed convoluted stories in ostensibly more serious films like *Miller's Crossing* or *Fargo*, they garner nothing but praise, but in outright comedies like *Lebowski* or *The Hudsucker Proxy*, where such an approach is more appropriate, the reviewers turn sour?

The Apostle

Robert Duvall's highly-touted writing, directing, producing, and acting labor of love about a Pentecostal preacher beset by vice has a lot going for it, particularly Duvall's performance, the evocation of the rural Louisiana setting, and the authenticity of the religious fervor. But something gets lost along the way; countless members of the supporting cast appear and show promise only to fade into the background. The movie is full of setups but weak on payoffs and resolutions.

The greater problem with the flat supporting characters is that even the central character's development suffers by interacting only with types rather than real people. It's disappointing to see what is in many ways a rich and complex film fail to complete its mission.

Afterglow

While it's good that the Motion Picture Academy chose to honor a relatively unknown, small film when they nominated Julie Christie as Best Actress for *Afterglow*, it's bad that the film in question is absolutely foul. While watching, I first thought that everybody in the movie was poorly written, then figured out that they're all just completely insane and completely wretched. Then I started thinking that there's not much difference between just failing to make your characters act with any motivation and purposefully writing characters that are insane in such a way that they act with little motivation. With a story revolving around two couples cheating on each other and hidden "revelations" aplenty, the whole affair ends up playing like a highbrow Jerry Springer. While ordinarily I would unequivocally advise against watching a travesty like this, one does gain a certain amount of sick voyeuristic pleasure from gawking at the antics on screen.

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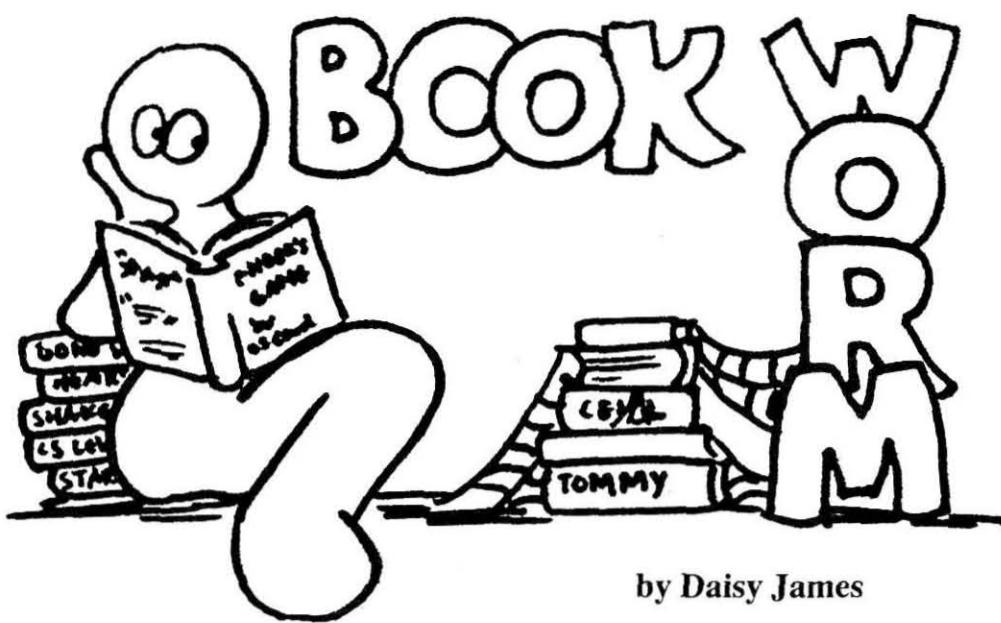


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FEATURES



by Daisy James

All U Can Eat
Lela Nargi
VVVV

A cookbook aimed directly for young people living on their own who don't have the first clue about cooking. Which pretty much sums up Tech's undergraduate population. At times it even seems to assume too little knowledge, as in the sections on boiling water and cooking toast (really).

In the more advanced recipes there is lemon cutlets, twenty different spaghetti sauces, egg drop soup and how to poach a fish in the dishwasher. The recipes are nice in that they are simple, clearly explained

and serve only a few people; often only one, which is unusual for a cookbook.

I tried to cook with some of the recipes and I think that I can say that the steaming vegetables and frying potatoes sections could use some more detail while the broiling beef recipe is about as good as it could be and the french toast works quite well, though I did get some advice from my mom on that one that helped a lot (if the bread is stale, soak it for a few minutes in the mixture before cooking.)

Be warned though, the author expects that you will have a full kitchen all to yourself to store a large variety of equipment, not a

tiny cabinet over the oven and no freezer space in a kitchen shared by about thirty other people.

Sacagawea
Judith St. George
✓

This is the sort of book that makes kids hate history. Clearly intended to be bought in bulk by schools for fourth-grade reading assignments, the only thing that this book has to recommend itself is perfect spelling.

The author has taken a fascinating person living in the middle of an important and exciting story and left it with the flavor of cardboard.

There is no dialogue, no action. Everything is described, third person, in the blandest possible terms. This book is only 108 pages long and it took me an entire week to read it.

For those that don't remember grade school, Sacagawea was a Native American woman who helped lead the Lewis and Clark Expedition in the early nineteenth century. She was kidnapped from her home by another tribe as a child and eventually sold to a white trader as one of his wives. Her story is alternately horrific, inspiring, amusing and finally tragic, but St. George gives none of the sense of it. She seems only interested in showing off her research and impressing her pithy morals on the reader. Nothing about any of the characters is shown through their actions, all is told in a bland flat style that gives no depth to anyone in the book while at the same time insulting the readers' intelligence. It's as if St. George does not trust that anyone reading her book would be able to draw conclusions on his own; they might not be the same as hers. I almost wish that I had a lower rating to give.

The Commodore
Patrick O'Brian
VVV

This is the nineteenth book in O'Brian's Aubrey/Maturin series; the fact that I have not read the others may contribute somewhat to my review. This said, I must admit that I was disappointed in it.

I had heard great things about the series and the setting, the British Navy during the Napoleonic Wars, is intriguing. But The Commodore meanders through it, never really settling on one topic, though some good ones were introduced. It seems like an action-oriented book, but no actual battles take place until nearly the end. The subjects of autism, homosexuality in the Victorian era and leadership are raised, only to be concluded in the simplest way possible or not at all. But O'Brian does capture the flavor of the times and his writing flows beautifully, especially in his descriptions of the ships and the sea. The main characters are well formed and supported and the supporting cast adds the appropriate color. This could be a much better book than it is.

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DILBERT ® by Scott Adams

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Scoreboard

March 6

Men's Tennis	Caltech 5	LaVerne 2
Women's Tennis	Caltech 9	LaVerne 0
Baseball	Caltech 4	CalLutheran 26
March 7		
Men's Tennis	Caltech 1	Occidental 6
Women's Tennis	Caltech 2	Occidental 7
Baseball	Caltech 3	CalLutheran 13
	Caltech 4	CalLutheran 16
March 11		
Men's Tennis	Caltech 2	Biola 5

March 11



Upcoming Matches

March 13

Women's Tennis vs. Whittier 3:00p.m.

March 16

Men's Tennis vs. Bowdoin 3:00p.m.

Women's Tennis vs. Bowdoin 3:00p.m.

March 23

Golf @ Wood Ranch

March 25

Men's Tennis @ BYU Hawaii 2:00p.m.

March 27

Men's Tennis @ Hawaii Pacific 10:00a.m.

Baseball @ California Christian 12:00p.m.

March 28

Baseball @ Menlo 11:00a.m.



Caltech Rugby makes its home debut

BY GAVIN HORN
AND JAMES GLEESON

The Caltech Rugby Club played its first home game against undefeated Occidental College on Saturday. The Beavers, inspired by the support of the large home crowd, went up 17-0 by halftime on converted tries by Matt Trehalla and Julian Chaubell and a penalty kick by Gavin Horn.

Playing into the wind in the second half, the Beavers found themselves under intense pressure from the much larger Occidental forward pack and their improved kicking game as Occidental went ahead 19-17 early on. Caltech bravely fought back, resisting numerous Occidental goal line possessions, and retook the lead with 10 minutes to go on a hard-fought try by Al Preston. But Occidental was just too strong, scoring a well-earned victory in the last 5 minutes, after a prolonged spell of constant pressure.

Playing into the wind in the second half, the Beavers found themselves under intense pressure....

coaching staff was very impressed with a Caltech team (which played its first game less than a year ago), and with the loud, excited home crowd, which enjoyed the afternoon of entertaining and violent rugby. Mike Godfree, Occidental coach and secretary of the SoCal Rugby Football Union, said "the day was a great advertisement for rugby."

SPORTS

Men's Volleyball continues its rampage

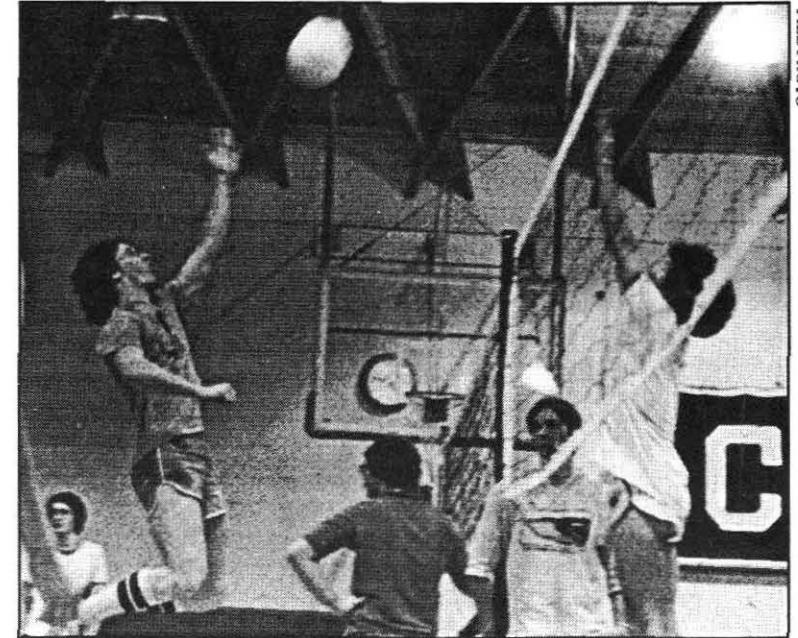
Undefeated Caltech scores big against Pomona-Pitzer: 3-0 victory

BY SCOTT VAN ESSEN

In one of the most consistently well-fought home games of the season, the Caltech Men's club volleyball team defeated Pomona-Pitzer in three straight games, a score which belies the excitement of the match. Caltech came into the match having beaten Pomona-Pitzer 3-0 and 2-0 in the past. Perhaps expecting another easy victory, the beaver squad was surprised by the intensity of the opposing team right off the bat.

In front of a crowd of more than 20 wildly screaming fans, Tech started Joe White at setter, Mike Machczynski at opposite, Joel Jones and Andreas Masuhr at outside hitter, and Gary Leskowitz and Andrea Borgioli at middle blocker. Pomona scored the first two points, then Caltech came back to start a ragging see-saw battle which went all the way to 10-10. Looking for a momentum swing, coaches Susanne Masuhr and Aaron Kiely called a time out to "rally the troops". That momentum boost was provided by Gary Leskowitz and Andreas Masuhr, who with a few well-placed, well-timed hits, got the team rolling to a 15-10 victory.

The second game provided a new look for all involved, moving Mike Machczynski to give Joe White a well deserved rest at setter, shifting Andrea Borgioli over to opposite, and bringing in Ken Wiberg to replace him. This game started out sloppily: there were more lifts and double hits called



Tech Photo Deficit: this is the most recent Men's Volleyball photo we have in our photo archives.

against the setters on both sides in the first half of game 2 than in the rest of the match. Caltech was

unable to sustain any momentum and Pomona-Pitzer jumped out to an early 6-2 lead. This sloppiness was not confined to the court. In easily the worst call of the game, a badly shanked ball went over the head of the Pomona setter, who tried to punch the ball over the net. He failed, and with nobody else on his team nearby, he dug the ball out of the net to continue play, a clear double hit. The ref, not seeing the first hit, ruled it fairly played, to the shock of the players, the fans, and the linesmen. She later said, "I needed an instant replay on that one". Another time out reminded Tech to ignore the plays of the past and focus on the end of the game. Coming out of this, the Beavers went on a 11-2 run, taking con-

trol of the game and never looking back. The game finished 15-11.

The final game brought Steve Sears in at outside and Nick Lorenzen at middle to cement Caltech's victory. Pomona was never really able to mount another offensive, and Caltech took the final game 15-5. With this win and a 3-2 victory at LA City College, Tech brought its record to 10-0. Looking to improve on this, Caltech will be hosting Mt. San Antonio College on Saturday March 14 at 3 p.m. in Brown Gym. Scores from previous matches, the schedule for future matches, and a team picture can be found on the Men's Club Volleyball Team web site at <http://www.cco.caltech.edu/~vb/VB.home.html>.

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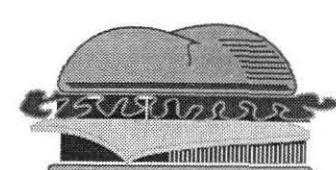
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Announcements

* The Caltech Ballroom Dance Club will be offering two new dance classes, starting on March 31st. Lindy Hop, a fast-paced variant of Swing and Charleston, will be taught by a professional instructor. It will be in Dabney Hovse's lounge on Tuesdays from 7:30-9 p.m. The cost will be \$25 if the series is 5 weeks long, or \$20 for a 4 week series. For undergrads, the cost is \$15 and \$12, respectively. The free beginner's class will be Merengue, starting April 2nd and running for five Thursday evenings, from 7:30-9 p.m. in Dabney Lounge (NOT Dabney Hovse). The classes do not require a partner or prior experience. Refreshments and practice dance time follow each lesson. For more information, visit <http://www.caltech.edu/~ballroom> FAR

The Prefrosh are coming! The Prefrosh are coming! Prefrosh Weekend 1998 will be held from April 16-19, 1998. If you have comments or suggestions for Prefrosh Weekend, or your club or organization would like to be involved with Prefrosh Weekend activities, please contact Dina Figueroa at dina@admissions.

Beginning Monday, January 5th, free anonymous HIV testing, using an oral HIV antibody test, will be available each Monday evening from 6:30-9:30 p.m. at the AIDS Service Center, 1030 S. Arroyo Parkway in Pasadena. Persons wishing to be tested may make an appointment by calling (888)488-9242. Walk-ins will also be accepted. Both pre- and post-test counseling will be provided, and results will be given the following Monday.

The Gay/Lesbian/Bisexual Discussion Group 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? We invite you to the Gay/Lesbian/Bisexual Discussion group, which meets on the first and third Tuesdays of each month from 7:30 p.m. until 10 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 the general discussion. Refreshments will be served. If you would like more information, please call x8331.

Events

Doc Watson and David Grisman perform together on March 14th at 8 p.m. in Beckman Auditorium. Celebrating the release of their joint recording, *Doc and Dawg*, guitarist Watson and mandolinist Grisman team up for an evening of downhome music. Tickets to this performance are priced at \$32, \$29, and \$26; Caltech student price is \$5.

Calico Winds, a wind quintet, will give a free concert on March 15th, at 3:30 p.m. in Dabney Lounge. The program will include works by Bach, Bozza and Schifrin.

The Distinguished Speaker Series of Southern California is moving into its second season. The events will be held at the Pasadena Civic Auditorium on five remaining dates, at 8 p.m.. Jean-Michel Cousteau will be speaking on April 8th, Maya Angelou on May 13th and Mark Victor Hansen on June 10th. For more information, contact (800)

508-9301.

For most Caltech events listed, further information can be obtained by calling 395-4652 or (888) 2-CALTECH, or through the Caltech website, <http://www.caltech.edu>.

Fellowships and Scholarships

Distant Lands, a local travel bookstore, sponsors **free budget travel workshops**. For more information, or to reserve a spot, call 449-3220. FAR

The National Institutes of Health's Undergraduate Scholarship Program (UGSP) is pleased to announce the availability of up to 15 competitive scholarships to support top undergraduate students who are committed to pursue careers in biomedical research. Awards are up to \$20,000 per year. To qualify, a student must be a U.S. citizen, national or permanent resident, be enrolled in or accepted by an accredited undergraduate institution, and carry a GPA of 3.5 or better or be in the top 5% of his/her class. In addition, the applicant must demonstrate extreme economic need or come from a disadvantaged background. For each year of scholarship, the student will fulfill a 10-week summer research/mentoring program and after graduation, fulfill one year of full-time employment, both at NIH in Bethesda, Maryland. UFA

Working or studying in New York City this summer? Educational Housing is a non-profit group that helps students locate safe, reasonably priced New York housing. For more info, visit www.studenthousing.org FAR

Work in Britain this summer or next fall: The British Universities North America Club (BUNAC) offers a special student work permit for \$225, valid for 6 months, allowing U.S. citizens who are at least 18 years of age to legally work in Britain at any time of the year. Jobs can be prearranged, or students can just go to Britain and find jobs (most students find work within a week of arrival). BUNAC's program also provides participants with a helpful manual and a job hunting center in London. BUNAC can also prearrange your first 3 nights of lodging in London. Applications and further information are available in Fellowships Advising. Visit BUNAC's Work in Britain site at <http://www.BUNAC.org>. FAR

ABL Summer Undergraduate Research Fellowships are full time, paid summer positions in the areas of virology, molecular biology, biochemistry, crystallography, genetics, and organic chemistry. All positions are at Advanced BioScience Laboratories in Maryland. There is a March 15, 1998 application receipt deadline. FAR

The West Coast Region of the Institute of International Education announces scholarships to assist American undergraduates to study abroad in Asia, Australia, New Zealand, and the Pacific Island Nations. Applicants must be citizens or permanent residents in the United States, currently enrolled, and a sophomore, junior, or senior at the time of study abroad. The study abroad will begin between June 1, 1998 and May 31, 1999. The application deadline is March 20, 1998.

Mints

* denotes a new announcement.

Applications and information are available at the Office of International Student Programs (ISP), Lloyd House. Information is also available on the Web at <http://www.iie.org>.

the winners will appear in the commencement program. If you have any questions, contact Professor LaBelle at x3605 or Barbara Estrada, x3609.

The Judicial Administration Fellowship offers work in administrative or executive offices of California appellate or trial courts. There is no preferred major. Applicants must have received their B.S. by August 1997. Fellows earn a monthly stipend of \$1707 for the 11 months of the program. The application deadline is April 3, 1998. Please note that California also offers similar programs in its Assembly and other state administrative/policy areas. FAR

The American Association of University Women will be awarding scholarships (\$500-\$1000) to sophomore and junior female college students who will have junior or senior standing as of September 1998 and have lived in the San Ramon Valley, or have attended high school there.

Applicants will be evaluated on the basis of scholarship, achievement, educational goals, financial need, and campus or community involvement. For more information and an application package, please send your request with a \$.64 stamped, self-addressed large envelope (9"x12") to: Mary Ann Osborne, 2530 Roundhill Drive, Alamo, CA 94507. Applications must be postmarked by April 6, 1998. UFA

* **The Coalition of Higher Education Assistance Organizations (COHEAO)** is pleased to present the opportunity for six individual scholarships for the 1998-99 academic year. There will be three (3) \$1,000 scholarships, and three (3) \$500 scholarship awards granted. Applicants must: 1) complete and return the 1998 COHEAO Scholarship application, 2) be attending, or plan to enroll as an undergraduate or graduate student in a COHEAO member institution, 3) include a 300-word essay on "The COHEAO scholarship will help me...", 4) include two academic reference letters and an original transcript(s), and 5) meet the application deadline. Applications are available at www.coheao.com, or at the Financial Aid Office. Applications must be received by COHEAO no later than April 15, 1998. UFA

* **The Asian Pacific American Association for Advancement, Inc. (4A)** has launched its second annual 4A San Francisco Bay Area Scholarship Program. Three \$1,000 scholarships will be awarded. All Asian/Pacific students enrolled in a full-time undergraduate or graduate college or university in the United States are eligible to apply. Candidates must be U.S. citizens or have permanent resident status in the U.S. and have the San Francisco Bay Area as their permanent home address. AT&T, Lucent Technologies, and NCR employees and their children are ineligible to participate. Prior award recipients are

also not eligible. Candidates will be evaluated based on their scholastic discipline, personal achievement, and community involvement. Applications are available in the Financial Aid Office. Applications must be received on or before April 15, 1998. UFA

A travel grant equal to the cost of a round-trip ticket between the U.S. and Sweden is available to women students who are 18 or older and U.S. citizens who wish to do study or research in Sweden. There is an April 15, 1998 deadline. FAR

Scholarship applications for 1998-99 are now available through the Jewish Vocational Service (JVS) and the Jewish Community Foundation. The funds are intended to provide a limited amount of financial aid for needy college students who are legal and permanent residents of Los Angeles County. Scholarships are not available to college freshmen. A minimum 2.5 GPA is required. Applications can be obtained until March 1, 1998 from: Jewish Vocational Service, 5700 Wilshire Blvd., 2nd Floor, Los Angeles, CA 90036. Deadline for submission of completed applications is April 15, 1998.

The American Electroplaters and Surface Finishers Society is offering scholarships to undergraduate juniors and seniors and graduate students who are interested in careers in the electroplating and surface finishing industry. Undergraduates must be full-time and must be majoring in metallurgy, metallurgical engineering, materials science or engineering, chemistry, chemical engineering, or environmental engineering. Applications must be submitted by April 15, 1998. UFA

The Jewish Family and Children's Services offers financial support for Jewish individuals and their families. Individuals may apply for up to \$5,000. Special scholarships are available for study in Israel. Eligible students must have financial need, have at least a 3.0 GPA., and be residents of San Francisco, the Peninsula, Marin or Sonoma counties, or the Bay Area. There are no deadlines—applications are accepted throughout the year and are available in the Financial Aid Office. UFA

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

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

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, and the editors reserve the right to edit and abridge all material.

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