Caltech Professor Emeritus Dies

BY TECH STAFF

David Storlwood Wood, a professor emeritus of nuclear 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 1944. 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.

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 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 Stan- dard Oil Co., Electro-Optical 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. Temple Award of the American Society for Testing Materials.

His campus service included the chairmanships of the Graduate Student House Committee, the Con- vocation 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.

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 ad- ministration. 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, distinguished from 75 academic institutions and learned societies, and Caltech alumni and faculty. Kip Thorne, Chair of the sciences, and Jack Dangermond, was chief marshal and Gordon E. Moore, Chair of the Board of Trust- ees, preceded the event.

David Wood was greeted by members from all branches of the Caltech community, including Martha Thorne Smith and former Presidents Martin 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 bring about the allure of the Caltech campus. In his address, President Emeritus Ernesto noted that "today we are inaugurating the greatest bi- ological elixir of our time to lead the Institution forward."

An address was given by Maxine E. 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 faciliti- tias as the Mt. Wilson and Palomar observatories a reality. Parallels were drawn between the habitat tele- scopes and Baltimore’s reverse trans- scriptase, as well as the imaginations from which these fundamental developments arose. Furthermore, Singer proposed that universities should give shape to our so- ciety 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 “Gaudeteis Igitur” which was commissioned es- pecially for the event. Then Moore and Benjamin Rosen, Vice Chair of the Board of Trustees, introduced Baltimore with Robert Millikan’s academic hood, formally endorsing him with the batons 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 im- portantly, Baltimore was noted to be “smart and strong enough to stand up to arrogant physicists.” In the Inau- gural Address, Baltimore expressed his pleasure in coming to Pasadena and praised the Caltech environment. His vision for Caltech in the coming years includes adjustments to the changing academic atmosphere and redundancy of the arts. He reiterated his commitment to increasing the diversity of the student body and faculty, as well as the quality of the community.

The ceremony ended with the keynote speech of white balloons as the dignitaries moved and Caleh was launched into promising future, with an impromptu new Presi- dent at the helm.

Hawking on Spacetime

BY RON DOLLET

Much how powerful can one man wield? As three thousand people crowded the Beckman Auditorium on Wednesday night, a large, bright shower of stars 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 Aeronology to Black Holes,” essentially discarded astrology (and also, possibly quantum mechan- ics) as well as question the very nature of time itself. Although his hour-long speech was filled with many references to Schrodinger’s equation and other constructs of quantum mechanics, Hawking did explain things clearly and concisely, with simple geometric repre- sentations of cosmological phenom- ena.

He began by completely slamming the door on astrology, asserting that the motions of stars and planets do not have any effect on the “intelli- gent life” on Earth. Hawking contin- ues 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.

Dignitaries attend Caltech’s new President

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THIS WEEK’S FEATURES

See Baltimore’s Inaugural Address on page 6 and 7

Senior Picture of David Wood

class of 1941

FridaY, March 13, 1998

Hawking’s lecture then focuses on relativity, of which he and Kip Thorne specialize in. (Time was not absolute at 1905. And in 1915, things only got worse.) He discussed how black holes arose from stagnation points in space-time, and how quan- tum mechanics broke down within it event horizon. Throughout his lec- ture, Hawking inserted many jokes and distractions which slowed off his light-hearded, 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 an- swer such as, “Can one see light if one was inside a black hole?” (to which he responded, “Yes.”) and “Is time travel possible?” (To which he re- sponded, “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 gen- erator), along with his plans to patent the Big Bang so that anyone who wants to use the universe would have to pay him royalties.
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, his inspiration of that spectacular group of scientists who began the modern revolution in Biology. As at least as revered (by Biologists anyway) as Richard Feynman is by physicists, Portax Maxinos. As I understand it, the course of action was determined if a given course of action was to traverse a continent or cross an ocean. For how much Dr. Baltimore had inspired all the students and staff working together to manage the new enterprise, the signs could not be ignored in the ballons, especially those wrapped awkwardly around the olive trees. It could not have been in the free ballons, 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 intellectual, it surely was only symbolic. You see, the sun in augur stands for a vis, the Latin word for bird, because divination by the augur was the flight and behavior of birds. What an advanced science 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 crowds did not care, a good sign I think, and the pigeons stayed away, another great indicator of bad things not to come. A few professors had already moved out. The eminent American, so I am told, did not seem to attract hummingbirds. May be there was not so good, but Hummingbirds, as we expected so small that their absence could not signify much trouble. In fact, as I think of it, pretty much everything seemed copacetic on the aviculature front. So there, although we did not have an official augur, as we should do, 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 was a discussion of the need to re-align 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, Or to at least the lives of the Caffeine and Culture, who may, go on to write read P and Baltimore’s plans for the future of Culture, as he and we embark on this next leg of the Institute’s story.

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 taken by the Board is inappropriate. What is surely inappropriate is that the case is being handled 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 necessarily well informed, demands. With that, to the lives of the Caffeine and Culture, and see you for the third term.

To the Editors,

I’ve seen the recent controversy in the Tech about the Cafe CoffeeHouse. As a past manager I thought I could add more food for thought.

I started waiting at the CoffeeHouse not too long after the Cafe’s historic move to it’s 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.E. 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 gets time ‘nuff ta clean!”

Too bad about Earl though. He flamed. Big ball of fire. I’m talking supervenon 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 it relates much to the CoffeeHouse. After all E.E.’s back in Cajun country, happy as a feelock.

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 one head manager I worked with. It was always corrected eventually but during those transition times sanitation levels were suspect to say the least.

Another phenomenon that I notice with each head manager change was the increase in personnel in 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 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. Things were: at times, a tad wasteful. But the kinds of things people we expect in a student run CoffeeHouse.

When you think about it though, how can student run the CoffeeHouse? I am not sure the students aren’t pumping in the tens of thousands of dollars that the CoffeeHouse needs each year to break even.

A student staff could eliminate problems associated with the

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More Coffeehouse letters...

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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 on March 7th. Approximately 50 people took part in the event. Marchers met at Singer Park at 9:30 a.m., the day of the hearing, 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 South 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 110 (Foothill Freeway). The proposed extension would be eight lanes wide, two of which would be High Occupancy Vehicle (HOV) lanes. Large buses would not be allowed on the extension. Proponents of the extension hope it will alleviate traffic problems in the area.

Opponents of the extension continued...

News

March 13, 1998

The Outside World

by Myfanwy Callahan

JERUSALEM, ISRAEL - Israeli soldiers shot and killed three Palestinians at an army checkpoints Tuesday sunset off 11500 Hebron 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 live the extravagant life."

PERKAS, 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 exhume 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 threats to national security in a secret court ruling. They may be deported back to Iraq where they are likely to face execution.

Out and Proud

Caltech/JPL Outlist

The Outside World...
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
Water turnout by house: Blacker(41), Dalmey(20), Fleming(11), Lloyd(18), Page(6), Ricketts(13), Riedlock(17)

ASCIT 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 G & R 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 Phi.

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 Vomiting, 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 Douglass 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 talk 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.

Jaiddeep — Tomorrow the HBC will talk to Keith “Under the Piano” Counsell about AC and cable, start amending the HBC documents to include the Athletics Manager, discuss the Coffeehouse affair, and look over the Spring off-campus parking procedure. ASCIT will use subsidized 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.


Baldeep — Hadn’t had any time yet for talking on someone else who has lots of spare time. Alex volunteers. Talked to Glen George about getting some obscure credit for programing a book swap site. Shep doesn’t want us to appoint the new Totem editor until late this year. Going to the Alumni Association meetings this week to pick procedure. 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 updated. ASCIT will be talking with Tom Mannion sometime soon.

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

Election Chair — Peter "None Bree" Frestre Tech Business Manager — James "Cheesesteak of Love" Gise Movies Chair — Amy "Extra R" Barr Totem Editor — Si "Nickname" Kim little t Editor — Valerie "Fork in the Eye" Anderson little b Business Manager — Vanessa "Admiral of the Ocean" Silva

Meeting adjourned at 00:08.

Respectfully submitted,

Michael D. Astle ASCIT Secretary

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Hello Techers, I'm now running for Chairman of the BoC.

Kevin Bradley

I have been a member of the Board of Control for several years. I have been involved in many of the decisions that the Board has made. I have attended many meetings and have had the opportunity to learn about the workings of the Board.

Kevin Bradley

I am running for Chairman of the BoC because I believe that the Board needs a strong leader.

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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

Inauguration

My deepest goal as president is to maintain the essence of Caltech while helping it adapt to a changing world.

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 own 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 a historic 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 invertebrate 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. 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 standards and the special place it occupies to cover an extraordinary range of scientific and technical areas with a minimal facility. It has provided so many new excitement 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 reason, I owe much to the sensitive stewardship of my predecessor Tom Everhart. I stood in awe of Caltech—paradise who built this rare institution. Everhart, Goldberger, Brown, DuBridge, Millikan, Noyes, and Hale. What an act 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 constituents 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 only 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 reduced by focusing on science and technology. Caltech has no external exams, or whether the self-criticism that the intellectual world has embraced in the last decades has spilled over into our basin of rationality. The answer I suspect most will give 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 unabashed. Not that we don’t reflect on our activities or even have our 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 atmosphere 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, we would receive the deepest scrutiny and only in the unlikely case that we 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 cult 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 coming through academia. They are not the intellectual challenges from which our culture insulates us; they are market-driven changes in the market-driven approach to education. We are already responding to those 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
...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?"

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

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

preserving young people to be scientists and engineers—the honor code and the small number of students makes learning a shared experience. Pigeonholes, we believe, are just not the way to go for a student in Caltech. We have begun to release our energy of innovation to benefit the local community, and there is much more we can do.

What happened in aerodynamics 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, Caltech, nearly as fecund, lives in a city with minimal high-tech influence? The politics of Pasadena have 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 question the campus that better mirrors the demography of America desirable.

Increased diversity has three benefits. First, it brings the particular flavor of a Caltech education to a part of the American public that too rarely has an advantage. Second, it assures merit in the sense that faculty and undergraduate students at Caltech are not the same in the student body as in the student body at other schools, even small ones, to encourage the creative arts as extracurricular activities.

The Caltech education concentrates on the products of rational thought. We develop an understanding of the arts like art and literature where the emotion and social context are higher. We might seem to overlook those elements, but that's not really the reason. It's because the arts, as a reflection of the configuration of life with its intrinsic mixture of rationality, passion, and history, are 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, impede too much 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.

Timing the release 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 the teaching and the research 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, impede too much 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.

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the cast shines, even down to the smallest cameos. 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 is that even the central character’s development promise only to suffer 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.
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 undergrad population. At times it even seems to assume too little knowledge, as in the sections on boiling water and cooking potatoes (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 boiling 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.

Sagawara
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, Sagawara 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 her own; they might not even be the same as hers. I almost wish that I had a lower rating to give.

The Commodore
Patrick O’Brian

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.
The California Tech is looking for writers to cover more campus and local news. Weekly or bi-weekly writers are eligible for 3 units a term and campus café compensation.

The California Tech is also looking for paid staff as layout and section editors. Work study students can really rake in the dough with their 3.33 salary multiplier.

The California Tech meets every Friday at noon in the Coffeehouse. We’re in the Student Activities Center, Room 40, so drop on by. If the door’s open, we’re in business and you are too.
**Sports**

March 13, 1998

**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 raging see-saw battle which went all the way to 10-10. Looking for a momentum swing, coaches Susanne Massini 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 for the goal posts, and Athletes for allowing us to host a home game. The GSC sponsored BBQ afterwards at the Catalina apartments was also a great success. Caltech is now 2 and 2 in the SoCal rugby collegiate division, with one league game remaining: April 11 at Cal State Fullerton. This weekend (March 14) the rugby team will play a friendly game at Westmont College at Santa Barbara. As always, supporters are welcome. The next home game will be next quarter against Southern California power-house USC. We are always looking for new recruits, and there is still time to join the team remaining. If you are interested, please contact rugby@cco, check out the rugby web page at http://www.cco.caltech.edu/rugby, or come watch our practices at 6 p.m. Tuesdays and Thursdays.

**Upcoming Matches**

**March 13**

Women's Tennis vs. Whittier

March 16

Women's Tennis vs. Bowdoin

Women's Tennis vs. Bowdoin

March 23

Golf @ Wood Ranch

March 25

Men's Tennis @ BYU Hawaii

March 27

Men's Tennis @ Hawaii Pacific

March 28

Baseball @ Caltech Christian

Baseball @ Menlo

**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 Trewballa 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. The final result was a 26-24 Caltech loss. The Beavers gleaned some consolation from their 12-0 victory in the seven-a-side game, with tries from James Gleeson and Al Preston.

The Occidental 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 in Southern California."

The club would like to thank the Alumni Association for the goal posts, and Athletes for allowing us to host a home game. The GSC sponsored BBQ afterwards at the Catalina apartments was also a great success. Caltech is now 2 and 2 in the SoCal rugby collegiate division, with one league game remaining: April 11 at Cal State Fullerton. This weekend (March 14) the rugby team will play a friendly game at Westmont College at Santa Barbara. As always, supporters are welcome. The next home game will be next quarter against Southern California power-house USC. We are always looking for new recruits, and there is still time to join the team remaining. If you are interested, please contact rugby@cco, check out the rugby web page at http://www.cco.caltech.edu/rugby, or come watch our practices at 6 p.m. Tuesdays and Thursdays.

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Know the combo!
Meet the Professors! The Preprofessor Woodie is ready to be presented this Thursday, April 19th, at 8:00 p.m. in Beckman Auditorium. Celebrating the release of their joint research publication, "The Doc and Dave Glimpse: A Guide to Understanding the Behavior of Microwaves in High-Power Devices," the authors will be teaming up for an evening of downhome music. Tickets for this performance are priced at $5 each, with additional proceeds going to the science center. For more information, contact the Caltech Student Union at 244-3220.

The Distinguished Speaker Series of Southern California is moving into its second season. The events will be held at the Pananaeum Auditorium on five remaining dates. At 8 p.m., Professor Jean-Michael Courtois will speak on April 8, Eugenie Angelou on May 13th, and Mark Victor Hansen on June 10th. For more information, contact 800-420-7266.

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