

Latest Venus Findings

Colin Howell, *Alumnus class of '90*

For the last eight months the Magellan spacecraft has been busy mapping the permanently cloud-veiled surface of Venus using synthetic-aperture radar. Since Venus rotates once every 243 days and the orbit is fixed in space. This means that, except for some blank zones, the entire Venusian surface has been mapped. Indeed, since the resolution of the map is 100 meters per pixel, Venus is better mapped than most of the Earth's surface—the best ocean floor maps have much lower resolution. During this mission, many intriguing discoveries have been made, and many features which were previously unknown, or at best were seen on a gross scale, have now been revealed in great detail.

It is now evident that Venus is a planet of great volcanic and tectonic activity. Magellan has shown us great mountain belts reaching heights greater than any on Earth, giant volcanic constructs, lava flows which extend for hundreds of kilometers, and huge rift valleys and fold belts. We have also seen other tectonic and volcanic features which resemble nothing on Earth, such as the "coronae" and "tesserae."

Coronae are large circular tectonic features which are hundreds of kilometers across. They are believed to be produced when large upwellings of hot mantle material push up against the overlying crust,

making giant domes, each covered with a pattern of radial faults—these initial features are sometimes called "novae." As the upwellings stop, the domes collapse, evolving through a complex process to mature coronae. A mature corona looks like a large, raised circular ridge, covered by concentric faults and ringed by a surrounding circular depression or "moat." The largest of these features can be over a thousand kilometers across.

Tesserae are bewilderingly complex, jigsaw-puzzle-like regions of extensive faulting and tectonic reworking. It is believed that these regions are created when several stages of successive tectonism are overprinted on the same area.

Other peculiar features cover the Venusian landscape. There are impact craters, some of which appear as if the object that made them encountered such stress as it plowed through the thick atmosphere that it blew up into fragments before reaching the ground. Some of the craters are surrounded by giant parabolas of dark material, which may have been produced when dust from the impact was picked up by the prevailing winds and carried for hundreds of kilometers. There is other evidence for wind erosion on Venus, which was a complete surprise to the scientists on the mission team.

Some other strange anomalies: a poorly understood "snow line"



Teachers Enjoy the Typical Feast for International Day

Venus continued

which causes mountains on Venus above a certain altitude to appear unusually bright to the radar (another funny point—the "snow line" is higher at the poles than at the equator), and funny pancake-shaped domes which almost seem to have "stealth" properties—the radar altimeter barely detects them, even though they are almost a kilometer high and cover substantial area, and some of them have fractures running through them which appear to be at the same level as the surrounding plains.

Since there are still regions of the planet which could not be mapped by the spacecraft on the first cycle, there will be at least one more mapping cycle to fill in the gaps. There may also be a later gravity investigation which will use precise tracking of the orbit to study density inhomogeneities within the planet. In any case, Magellan has already provided enough data to keep planetologists busy for decades to come.

Nate Lewis Awarded Honor in Chemistry

Dr. Nathan Lewis, professor of chemistry, has received the American Chemical Society (ACS) Award in Pure Chemistry, one of the most prestigious honors in the field. Lewis was presented with the award last month at the ACS annual meeting in Atlanta.

Dr. Lewis heads a research group that is studying the principles and dynamics of a new class of solar cells—devices that produce either electricity or chemical fuels, or both substances simultaneously when they are struck by sunlight. According to a recent article in the journal *Chemical & Engineering News*,

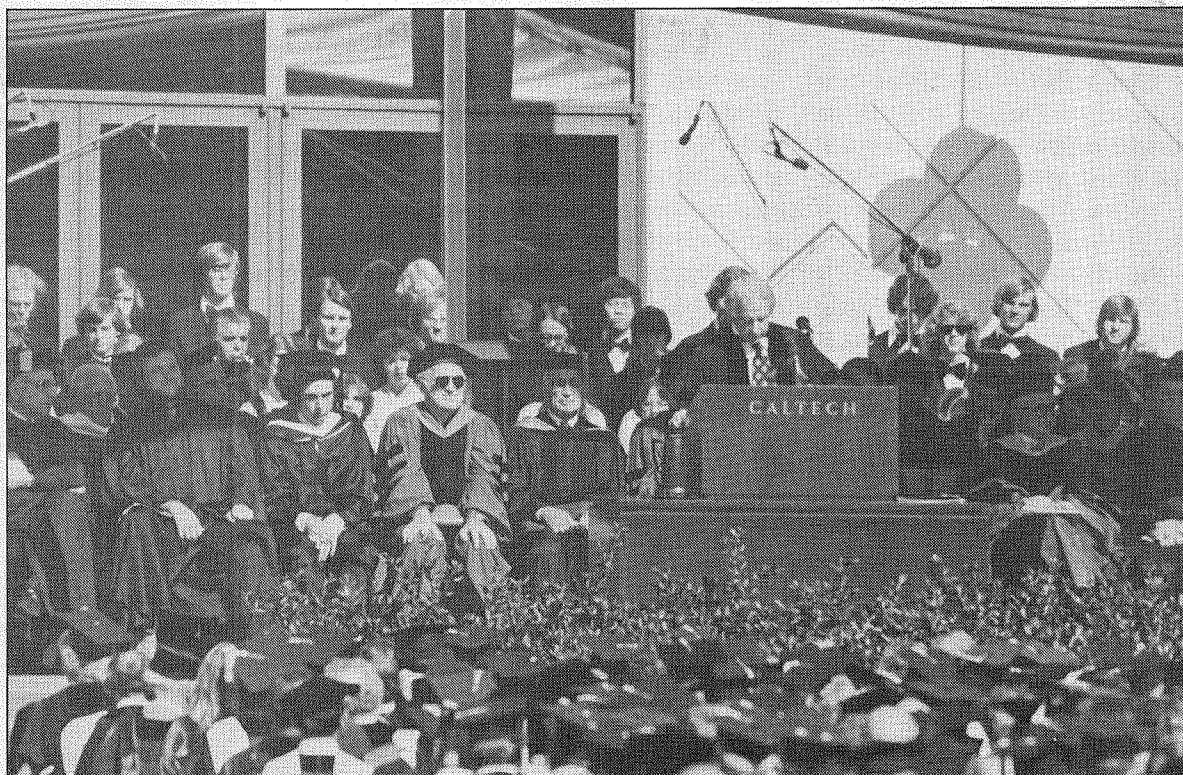
"Lewis has developed tools to investigate the mechanisms by which these cells produce power, and has used these techniques to develop extremely efficient energy-converting devices."

Dr. Lewis came to national attention in the 1989 cold-fusion controversy, when the interdisciplinary research group he headed published findings that cast serious doubts on the validity of cold fusion. After exhaustive research, Lewis's team concluded that the cold fusion claims had resulted from flaws in both the design and execution of the original experiments.

Commencement Tickets

This year, commencement will be held on the Athletic fields in order to accommodate the large number of people attending. All undergraduates and all guests of seniors who were registered on the list in the Dean's office will be able to attend commencement. Seniors may pick up tickets for their guests

in the Dean's office on or after Monday, June 3. Non-graduating undergraduates may also pick up their tickets in the Dean's office on Monday. There are a limited number of spaces available for undergraduates to bring guests as well. Please enquire about this at the Dean's office on Monday.



Commencement won't be on the Court Of Man—go to the Athletic Field and see President Bush

CRIME AND INCIDENT BEAT

- 5/21 A Macintosh hard drive was stolen from the Ricketts House computer room. The cable securing the drive was cut. The door is locked with a combination.
- 5/23 The wheels and tires were removed from a student's bike that was parked at the northeast side of Catalina I building 434.
- 5/24 A Mazda RX-7 parked in the West Wilson lot was stolen. Security observed suspicious persons near the car on the 24th and are investigating.
- 5/24 A security officer investigated a possible car crash at the Wilson and California intersection. A Toyota Supra had been driven over the curb and into a bus bench, destroying it.
- 5/25 A bicycle was found at the Brown gym and was given to the security office for keeping. If the bike is not claimed, it will be turned over to the Pasadena Police.
- 5/26 Officers responded to a suspicious persons report at Ruddock, and apprehended one of the three persons. The suspect was advised not to trespass on Caltech property.
- 5/28 A suspect was found removing cans from the Recycling Center. Security officers approached the suspect, and he fled. The suspect, who was carrying two bags of cans when he was apprehended, was warned not to trespass on Caltech property.
- 5/25 A student of Blacker house parked his car in the Athenaeum lot. The rear window on the passenger side was broken, apparently by a thrown object.
- 5/28 A vehicle in the Business Services lot rolled out of its spot and struck another vehicle on the other side of the aisle. Both vehicles sustained light damage.

Total value stolen or missing: \$1500 (and a car)

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Letters

Langdale's Farewell

An open letter to the Caltech Community:

Well, here's a note from the departing admissions director—off the topic ("Yeah!") of his attitude toward public use of the F, C, P, and other words. And it's *not* to cop an admissions plea ("It ain't our fault") for the apparent problem of too many students for next year (one silver lining in that cloud is that it is partly a product of increased yield, signifying more approval of CIT and—mainly to publicly appreciate the faculty and administration I've learned from and enjoyed working with these three years. And the upstairs tenants at 515 S. Wilson know I think they're keen. And I've said a very important "Hey" to the marvelous gang I've lived with in admissions, day in and day out, keeping each other's spirits up as we combed the world to find and listen to you all.

Perhaps this is an odd way to say thanks (but, then, that will make it fit *well* here at Caltech), and to make sure you don't miss the point, I'll say right here, I think you young men and women ("guys," if I may) are remarkable. So, then, here are some new and fragile thoughts and ideas in praise and thanks for three years of enjoyment and satisfaction. The problems holding the world hostage have had centuries to grow. I am pleased to report that we have again, this spring, admitted a group of young women and men who, in their trifling two decades have assembled the ambition and developed the ability to face those problems. The mother of all educations will begin for them in the fall.

From the right place to stand, one will see these young people struggle—battling ignorance on one side and fatigue on the other. At 3:00 AM, wrestling an elusive concept in physics, fame and fortune fail to motivate and only those angry at the thought of losing continue. World class scholars, like world class athletes, will not quit.

In a culture feeding on instant gratification, you Techers who *look* a lot like mere college students—are heroes.

I knew a crew coach who defined the word gallant by describing a race where his oarswomen kept pulling while their boat filled from a puncture and they slowly sank. Sometimes as I watch the gang from my place at Caltech valiantly striv-

ing to *learn* to overcome those problems, the word "gallant" comes to mind. And I wonder what might happen if the support you gain from parents and each other was fortified more markedly by the culture *benefitting* from your endeavors here....

But with spring and the Class of 1995 comes optimism. The tradition continues. And those in the know hold their breath and hope. And much of that hope is invested knowingly or unknowingly in the students here at the California Institute of Technology.

Now...I'm in the Newton directory in New England; if you're there and remember me, give me a call and say, "I'm a Techer," and Sharry and I will want to see you.

Lastly, on the topic of life at Caltech, I quote a handwritten bumper sticker from a semitrailer I saw in Iowa about fifteen years ago: "Jake the trucker says... 'It's nice to be nice.'"

Sincerely yours,
Daniel T. Langdale
Director of Admissions

Gorm's Reply

To the Editors:

To answer Celina Mikolajczak's questions in last Friday's *Tech*:

1. "Who the hell are you?" - I am a third-year physics-astronomy graduate student, and this was the third Ditch Day I had attended.
2. "Who invited you to participate in Ditch Day?" - I had attended them as a member of the Caltech student body. At least in previous years, I had felt in the air a spirit of good fun and camaraderie in solving interesting problems.
3. "Who elected you spokesman?" - The reporter who interviewed me at 11 am decided to quote me as she did. She quoted only one of the twelve buttons I wore and a like fraction of my comments, leaving them out of context.

I agree with Celina that the reporters were rather intrusive (especially the tele-journalists), but they were specifically part of it as well, with the "whipped cream and polish sausage" bit, and the "reporter free zone." The coverage of Ditch Day often make sensational news along with other major pranks, and so leads to a good portion of Caltech's fame, albeit distorted. In fact, Ditch Day, and other Caltech pranks were part of what drew me here: another grievance Celina could file against the reporters.

I have much more trouble un-

Editorial-Jon Liljeblad

Freshman initiation has had a long history on this campus as an integral part of undergraduate life. Hazing, as it is better known, has been utilized in most of the student houses to welcome new members. Recently, however, questions have been raised as to hazing's relative worth on the modern campus. The problem is basically this: is it still useful? Does hazing still serve the original purpose intended for it?

It has been pointed out that initiations on this campus are representative of the school's all-male, small student body past. That is, that they reflect a frat-like atmosphere, with many rituals being generally physical and in some ways humiliating. Indeed, such rites as showering, dog piles, and greased bodies would appear to be more synonymous with male-bonding fraternity rituals than with any notions of informal welcomes for a diverse freshman class with many disparate views. As it stands, the majority of initiations do not fully account for those incoming undergraduates who find the current methods disagreeable. Rather, as some have pointed out, hazing is only alienating many new students, who find it repulsive and unnecessary in a modern institution.

But it should be pointed out that as more than just welcome ceremonies, initiations have been utilized to (1) familiarize freshmen and upperclassmen with each other, (2) indoctrinate new students in the history and customs of their surroundings, and (3) give the initiates a sense of identity and community with their house. While the first two purposes could readily be filled by surrogate methods in a classroom or lounge, the third is something unique.

The houses as self-governing institutions generally operate and survive independent of the administration. If this independence is to be sustained into the future, undergraduates must continue to see themselves as integral members of their own respective student houses, in which they are responsible for handling their own problems and challenges. Independence is more easily fostered under a sense of identity and uniqueness. In order to accomplish this, some means of inculcation must be applied which unites the incoming members with their predecessors, which in some way gives the freshman a sense of esprit de corps with the upperclassmen in their house.

Granted, it is not necessary to preserve hazing in its present form in order to instill any amount of identity, but nevertheless it is evident that it should exist in some fashion. The ability of a house to retain its right to be self-governing is dependent on its members viewing themselves as part of a body able to function on its own. Thus, freshman initiation, by instilling new students with some form of community with their house, still has a relatively important role to play in this school's undergraduate life. While emendations to current indoctrinations may certainly be acceptable in order to prevent excessive damages in the future, some effort should be made to provide some manner of undergraduate hazing.

Understanding Celina's point about the "nerd/geek" labelling. Being a socially inept scientist-in-training myself, I have often been called nerd, geek, brain, genius, smart-ass, wise-guy, and many other things. I generally take them as compliments, since it is nearly an admission of the name caller's inferiority.

However, it has been explained to me that many Techers resent the barriers which suddenly appear in wider societal circles when their origins and abilities are made known. To me this seems like Jewish or homosexual people hiding their differences. Perhaps it saves on discrimination in the long run, but the denial adds shame to the difference and does nothing to solve the problem.

Finally, to address Celina's statement "If you can't say anything good you shouldn't say anything at all." First, I don't believe that her own letter is self-consistent under

this maxim. But more importantly, the rule is itself a very strong statement for censorship. The right to make critical judgements is at the core of free speech, whether or not it might hurt someone's feelings.

Concerning an apology, I will not apologize for having an opinion. I do, however, regret expressing it too soon and to a person outside the Caltech community *in a way that seemed to demean the effort of the seniors*. By 5 pm I had helped on a few stacks, saw the cracked stacks and general construction, and would certainly have withdrawn the words "very lame" but substituted "disappointing." The fact of the matter is that I do prefer science and engineering stacks with plenty of construction and visual flair, and I saw fewer of those this year than in the previous two. The task-oriented honor stacks seemed to dominate this year, and could probably have been run at PCC or Oxy. But *since*

See page 3

Farewell Concert

Two chamber music concerts planned for this weekend will mark the final campus performances of several outstanding graduating Caltech musicians. The concerts will be held on Friday at 8:00 PM at Ramo Auditorium and on Sunday at 3:30 PM Dabney Lounge. Admission is free, and, of course, refreshments will be served.

Seniors Anita Lee, Daniel Ko, Laura Hernandez, Lindsey Dubb, and Ruchira Datta will be among the performers Friday, while Sunday's concert will include seniors Erich Schneider, Robin Luckey, Eugene Lit, and Alex Sugiyama. Karl Irikura and Grace Tsang, leaving Caltech this spring with graduate degrees, will also perform this weekend.

The concert Friday will feature chamber music by Telemann, Dvorak, Berlioz, Ibert, Haydn, and Beethoven. Sunday's fare will include Weber, Mendelssohn, Saint-Saëns and Beethoven.

A truly outstanding group of musicians will be graduating in the class of 1991. Why not spend a couple hours of your weekend appreciating some of their talents.

Research saves lives.



THE CALIFORNIA TECH

Volume XCII • Number 29
May 31, 1991

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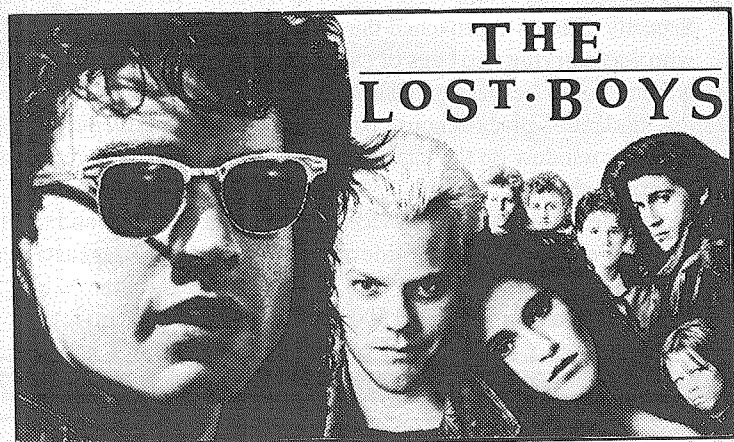
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Published weekly except during examination and vacation periods by Associated Students of the California Institute of Technology, Inc. The opinions expressed herein are strictly those of the authors.

Letters and announcements are welcome. All contributions should include the author's name and phone number and the intended date of publication. The editors reserve the right to abridge and edit all submissions for literacy, expediency, or anything else. Turn in copy (preferably on Macintosh 3.5 inch disk) to the *Tech* mailbox outside SAC room 40. The deadline for copy is Wednesday at noon; for announcements, Tuesday at 5 PM. Subscription requests should be directed to the office manager. Subscriptions (mailed third class) are \$3.50 for one term, \$10 for one year, and \$19 for two years. Printed by News-Type Service, Glendale. ISSN 0008-1582



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letters

Ditch Day from page 2

Caltech seems ashamed of its distinctiveness, perhaps that is what was intended.

Celina is absolutely right in saying the seniors don't have to work to please me, other graduate students, faculty, or journalists. However, to go running about in an exhibitionist fashion yet demand not to be judged (if unfavorable) seems to me rather unreasonable.

Gorm Nykriem
G3 Physics/Astronomy

P.S.-Actually, this whole thing was a nasty plot foisted upon us by cruel, jealous MIT-types such as my roommate, Ernie Prabhakar, and their minions the *L.A. Times*.

Debate Over Politically Correct Thinking

To the Editors:

Last week *Tech* editor Jon Liljebblad added to the nationwide media frenzy on "political correctness," or PC for short, with a thoughtful editorial on PC and its implications for free speech. This is indeed a time when First Amendment rights are under attack from many sides, and it is healthy for the Caltech community to be aware of what is at stake.

PC gained national attention when President Bush, in a commencement address at the University of Michigan, attacked "the notion of political correctness," which "declares certain topics off-limits, certain expression off-limits." He claimed that "political extremists roam the land, abusing the privilege of free speech, setting citizens against one another on the basis of their race and class." His choice of words is particularly striking against the backdrop of the 1988 Bush/Quayle campaign's use of Willie Horton to exploit racial hatred and the government's manipulation of media coverage of the Gulf War.

Another event that helps put Bush's remarks in perspective is the recent Supreme Court decision to uphold an Executive ruling that prohibits doctors in family planning clinics that receive any federal funding from even mentioning abortion. Legal experts suggest that this could set a precedent to justify additional government restrictions on free speech. In dissent, Justice

Harry Blackmun warned that the decision turns recipients of government funds into "an instrument for fostering public adherence to an ideological point of view." Like many institutions, Caltech's reliance on federal funding could make it vulnerable to political blackmail.

Fundamentalists of all political persuasions are eager to suppress dissenting views. The greatest threat however comes from those, such as the Bush Administration and the Supreme Court, with both the will and the power to impose their ideology on others. The hysteria over PC, like that over Noriega and Saddam, serves as a useful smokescreen for the real thought police.

So far, Caltech has been rather remote from the PC debate. I wish that this were because Caltech provided such a healthy and nurturing environment for all its members that no one would feel threatened, harassed, victimized or intimidated. Unfortunately, this is not the case. Still, let's hope that the Caltech community can work together to create an environment that makes the PC controversy a moot point, a curious anachronism. We have very far to go.

Thank you,
John Doyle
Professor, EE

Reply To Prof. Doyle

Professor Doyle's letter pointed out some things I was not aware of, despite my attempts at keeping a tab on national and international news. In particular, his mention of the recent Supreme Court action and Caltech's heavy dependency on federal funding were disturbing to say the least.

While the decisions of the Supreme Court do not always necessarily make their presences immediately felt in daily life, it is nevertheless usually only a matter of time before they filter throughout society. In this case, however, I believe that the Court has essentially sent

out a tacit approval (intentional or not) to all government officials that it is okay to use federal funding as means of persuasion. As a result, I would personally think that political fundamentalists would be all the more encouraged in their efforts and would attempt to accelerate their endeavors. For those organizations whose survival is dependent on federal funds, government money is a blackmailing tool. Not that I'm paranoid — just pessimistic in this case.

In addition, Caltech receives an incredibly large portion of its budget from federal funds. In rough perspective, student tuition only accounts for something on the order of single-digit or sub-one percentages of the total budget. This places the school as a readily available target for government blackmail. Already the school has had to investigate DAPAC in order to comply with government regulations which basically said that if DAPAC wasn't alive then Caltech would not receive federal funding. For the future, the danger remains that this school may be the prey of a government using the Supreme Court's ruling as a tool for enforcing public adherence to "politically correct" ideological views.

In a way, all this conjures up *Brave New World* and *1984*. The fact that in this age the possibility still exists for a government imposing its will on the people ostensibly "for their own good" is highly disturbing. Didn't we as a nation start off with a revolutionary war to eliminate this attitude? Didn't Lincoln say something about "...for the people...?"

Sometimes at this institution I get the feeling that we are in a small, sheltering crevice in the rocks while rest of the country rages away above our heads. I agree with Professor Doyle that it is healthy for us as an institution to be aware of what's happening, especially with this debate.

Jon Liljebblad, ed.

IHC Minutes Digest

Lucy Guernsey brought information on the Caltech Leadership Institute. It will be on the three days before Frosh Camp. There is space for 20 students, and there is no cost to participate. Spaces are going first to House Presidents, ASCIT BOD members, and the Y excomm.

Interviews for student-faculty committees were on Tuesday and Thursday. See below for names of appointees.

All the off-campus affiliated alleys will change possession at the beginning of the summer. Residents should make appropriate arrangements.

Page is having problems with people emptying their ice machine. Ask permission before taking ice from any other house's ice machine, and don't take all the ice.

Ruddock complained about people taking reserved parking spots north of Ruddock. Angry Rudds may take action against offenders.

Ricketts had the tape drive for their Macintosh stolen. Various people are looking into the security of computer rooms.

Ricketts played Lloyd in foosball. Final Discobolus scores should be out next week.

The following people were selected to serve on Student-Faculty committees for the 1991-92 school year:

- Academic Policies - Sayuri Desai, Lindee Goh, Hanna Hsu (Alternate)
- Convocations - Marc Malek, Miika Kangas (Alternate)
- Curriculum - Sayuri Desai, Hanna Hsu, Lindee Goh (Alternate)
- Athletics and Physical Education - Amy Hansen
- Foreign Students - Lindee Goh, Marc Malek, Emerson Tongco (Alternate)
- Institute Programs - Deepi Brar, Won Bang (Alternate)
- Patents - Niel Brandt, Miika Kangas (Alternate)
- Relations with Secondary Schools - Martin Lin, Kevin Archie (Alternate)
- Library - Niel Brandt, Bob Fisher (Alternate)
- Student Housing - Lieven Leroy, Sayuri Desai (Alternate)
- Relations with Industry - Marc Malek
- Admissions - Amy Hansen, Chris Ho, Debi Tuttle, Mike Nassir, (Steven Fought and Eric Stout Alternate)
- UASH - Maneesh Sahani, Lieven Leroy, Mike Nassir (Alternate)
- Greivances - Maneesh Sahani, Steven Fought
- Scholastic and Financial Aid Committee - Won Bang, Mark Malek
- Food Service Chairman - Wayne Davis

ASCIT Minutes Digest

Caltech Shooting Club - Two individuals representing people who want to get funding for a target shooting club asked for as much money as ASCIT would give them. They had asked for money at the annual budget meeting, but their request was denied on the grounds that as a new club we had no track record from which to predict their future stability. They seem to have become more organized, and it was proposed that they be allocated \$50 for club use provided that the money is not to be used to purchase a firearm. The club currently claims to have 10 members, and they have advertised in the *Tech* to publicize their activities.

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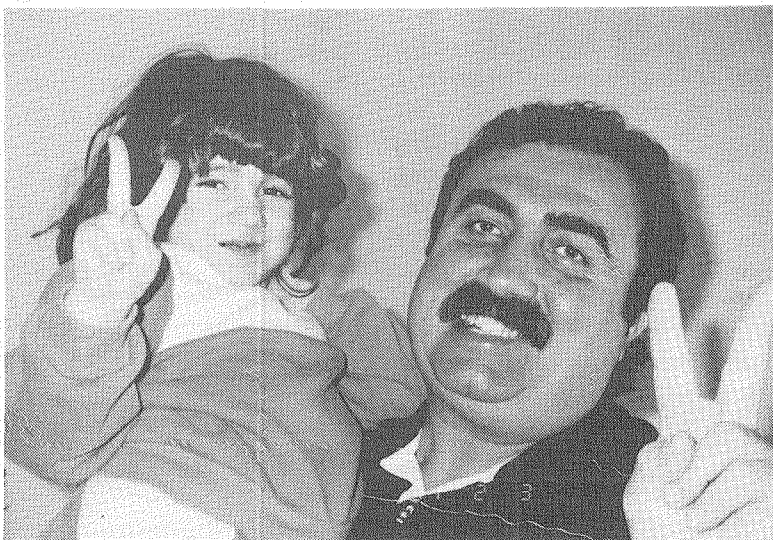
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Gary and his young relative say good bye to Caltech

Gary Hindoyan

by Matt Carlson

June 1991 will mark the end of Caltech's relationship with Burger Continental as its on-site board service. Gary Hindoyan, with his brother and partner Harry, have owned and operated the local restaurant for the past twenty years. Harry is primarily in charge of the restaurant operation, and Gary runs the catering side of their business.

Gary spent his childhood in Beirut, Lebanon where he attended a British missionary school for boys. He came to Pasadena in 1965 and went to Blair High School, where he played guard on the football team. When he was a senior (1968-69), the team won the CIF Championship under the coaching of USC's current head coach. Gary then attended Pasadena City College where he got his Associate degree. He continued his education at Cal State Los Angeles and graduated in Accounting.

Gary's experiences as a chef began while he was still attending PCC. He was the Night Chef for the Pepper Mill in Pasadena. In 1971, Gary and Harry Hindoyan opened the Burger Continental restaurant. It has been growing ever since. They expanded into the catering business and currently cater a whole range of events including weddings, Caltech/JPL events, and even the Dodgers baseball team.

Burger Continental's contract allows them the use of Caltech's kitchens to cater for Caltech or JPL events. Other catering was done out of their kitchens over at Burger Continental. Now that they are moving, all the catering will be done over at BC. The kitchens there are large enough to cater events for up to 5000 people.

The Caltech kitchens will close around June 20th. After a thorough cleaning, the kitchens will be handed over to Total Foods on June 30th. Gary will be busy with catering jobs through July, but in September he plans to take some time off. When asked about the future, Gary explained that he intended to spend some quality time with his family. He feels he's ready to rest for awhile.

Gary was very outspoken about his gratitude to the Caltech community. He harbors no hard feeling about the end of his contract and hopes to retain a good relationship with Caltech. He commented on his stay here: "It was a great experience, ...but I think everyone felt it was time for a change. This is not unusual for a college situation. People become tired of one way of doing things. We've been honored and flattered to be part of Caltech. I especially appreciate the students. They have been very good to me over the past five years. I hope the new company will be good to them."

3-2 Policy Change?

by Asim Mughal

Decisions for 3-2 transfer students have been mailed out by Caltech but this year it seems like there is a drastic reversal of policy in providing financial assistance to 3-2 transfers. Out of 33 applicants, a record high only 18 have been provided with the financial assistance.

Caltech has a 3-2 programs with nine liberal arts colleges. A student admitted to one of the liberal arts colleges pursues a B.A. for three years. At the end of three years, if the liberal arts requirements are fulfilled and one is nominated to Caltech admission is almost guaranteed. A student then pursues an engineering degree at Caltech. At the end of the five years, one has a B.A. from one's liberal arts college and a B.S. from Caltech. This program has been in effect for 30 years now and about 150 students have gone through this program.

However, this year there were an overwhelming number of applicants. As Dr. Langdale, outgoing director of undergraduate admissions at Caltech, puts it, "there are no controls over this program."

There is no way of knowing how many students will be coming in. Caltech has been unofficially expecting roughly 18 applicants from 9 colleges. This year there were 12 nominees from just one college, Ohio Wesleyan University. Honoring its 3-2 program, Caltech granted admissions to all of them

but provided financial assistance to just 3 students. This has been a topic of hot debate.

The controversy is over the interpretation of the following statement on page 75 of Caltech's catalog (1988-1989):

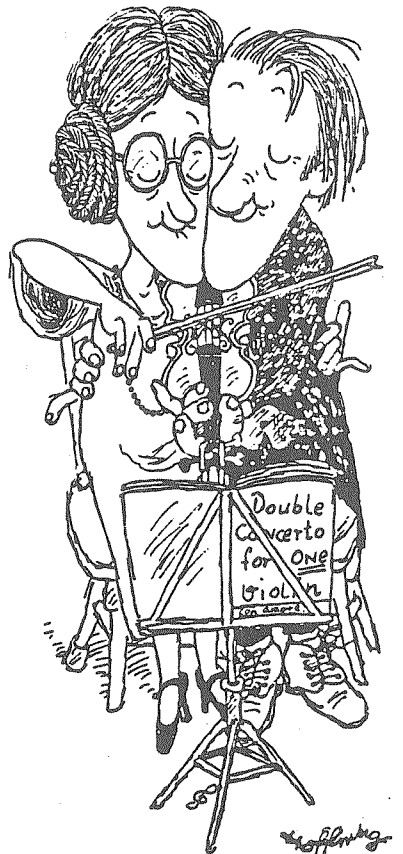
"Caltech believes that qualified students who wish to attend Caltech should not be prevented from doing so for financial reasons. The Institute is therefore strongly committed to meeting the demonstrated need of students whose families cannot afford the total cost of a Caltech education."

According to Dr. Langdale this has been and is Caltech's philosophy and Caltech has been providing financial assistance to all admitted students, but this year is an exception as not enough money was budgeted for this number of students. On the other hand, one can expect the students involved to feel as if Caltech is not honoring its agreement and discouraging students in its 3-2 program. With an annual endowment of millions no one will be willing to accept that "Caltech doesn't have enough money." Dr. Langdale denies any diversion from Caltech's original commitment of providing financial assistance to the admitted students.

The future of the 3-2 program does not look very hopeful. Dr. Langdale is expecting more control over the 3-2 program in the future with Caltech reserving the right to grant admission versus "automatic

admission" under the current policy. According to him, Caltech will hold the number of 3-2 transfers to 18 in any given year.

The future of the 3-2 students who have been denied financial assistance is grim. Caltech's admissions office sympathizes with them, but that is not going to do any good at this point. If only Caltech had elaborated on its interpretation of the above mentioned passage from the catalog, those students would not be left in limbo.



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Statements

Senior Class President

Andrea Mejia

Hi! I'm Andrea Mejia and I'm running for Senior Class President. The president is mainly responsible for choosing the date of Ditch Day, helping with commencement, and dealing with other random senior activities. I've held several offices in the past few years, and I believe the experience will be helpful. More importantly, though, I'd really like to do the job. Most of the work needs to be done second and third term, and I'm willing to put in a lot of time and effort. I can't promise anything about commencement speakers, but I will listen to you and I will do my very best. I'd like to help make senior year be something special, so if you think I'd do a good job, please vote for me today. Thank you.

Deepinder Brar

Most of you probably know I'm running for Senior Class President. If you didn't know, now you do. One of the important duties of the Senior Class President is to serve on the Convocations Committee,

which chooses a commencement speaker. All the experience I have gained serving on various student-faculty committees over the years has taught me the value of speaking out on important issues, especially when influential people are listening. I feel I would be a good representative of our class sentiment to the convocations committee. It would be a welcome change to have an interesting commencement speaker who is neither an academic nor a bureaucrat. We need some fresh perspectives after four often embittering years here.

The Senior Class President also arranges the Senior Banquet at the Athenaeum at graduation. I have arranged large events at the Ath for Blacker House, so I am capable of handling this responsibility, and all others the office entails. I have served on Blacker Social Team, am currently Blacker Secretary and (for what it's worth) was Junior Class Secretary/Treasurer. Last year, I successfully edited a non-nerdy little t. I would feel honored to be elected Senior Class President, and would do my best to make sure the seniors' opinion is heard. Since every vote makes a difference in elections here, I'd appreciate your support.

Delwyn Gilmore

Hi! I'm speaking to you now, not as a *Tech* editor, but as a rising (barring disaster) senior. I would like very much to represent the seniors next year as class president. This job boils down to coordinating commencement and Ditch Day procedures with the administration. Not a high profile job, but an important one, and one which calls for a good bit of patience and organizational skill. I think I can do the job more than adequately. Thanks for your time, and please vote in the elections today.

Senior Class Secretary/Treasurer

Stephanie Buck

The job of the Senior Class Secretary/Treasurer is basically to assist the Senior Class President in choosing a date for Ditch Day and in planning Commencement activities. I could go on and say that I'm uniquely qualified for this position and that I've done something like this before, but although I've been involved with a student government before and I've held the position of secretary of an organization before, nothing I've done is quite like this position. I can say, however, that I'm very interested in doing this job and doing it right, so I'd appreciate your vote. Thank-you.

Bonnie Wallace

The *Little T* lists the role of the Senior Class Secretary/Treasurer, a role of working jointly with the Senior Class President in selecting the date for Ditch Day and helping decide the "form" of commencement exercises. This is a service I would like to perform for our class. I am willing to take the time necessary to work out the small details of graduation. As of this writing (Wednesday night), there are two candidates for senior class president—both of whom I know well and would work with very easily. And I have a dartboard at home, so selecting the date for Ditch Day would be simple (okay, not really...I don't have a dartboard.)

Quite seriously, it's a job I'd like to do. Please vote for me for Senior Class Secretary.

Lanny Boswell

Hi! I am Lanny Boswell and I am running for the position of Senior Class Secretary/Treasurer. The Senior Class Secretary/Treasurer along with the Senior Class President is responsible for setting the date for Senior Ditch Day and determining the form of the commencement exercises. He assists the Senior Class President in other matters and is a member of the Senior Class Committee.

I have been involved in commu-

The California Tech

nity activities as ASCIT Election Chairperson and as a member of the Human Relations Group. I feel that I have the qualifications necessary for the position of Senior Class Secretary/Treasurer and would appreciate your support. Thank you. (By the way, I am not going to count the votes for this election. I don't think it would be appropriate.)

Junior Class President

Dan "Fru" Frumin

Yo dudes, it's me, Fru, and I'm running for Junior President. I know it's a buttload of work handling the daily in's and out's of holding an office with such a boring and long name, but I think I can handle it. As with every other Techer who is not a phys major, handling mudeo will be no problem, since as far as I know there is none or at least very little to be handled. Sure I may swim in mud, but who really cares. The only jobs the Secretary and I handle are Mudeo and coming up with a wish list for commencement speakers. Ask the other Blacker House waiters, I have no aversion to getting myself soaked and dirty, so Mudeo will be no problem. Plus, I am fairly active in campus events, being a former (thank God) Excomm member of the Y, so I have had experience in organizing such events, including Broomball. I also have had opportunity to meet a lot of you through various activities, so I hope that y'all are comfortable enough to vote me in. I know my competition is fierce and we'll both have to work hard to beat Mr. No. I hope that I can overcome this adversity and become your next Junior Class President.

see page 7

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Y NEWS

Well, the end is in sight! That light at the end of the tunnel is Decompression, next weekend. Saturday and Sunday night from 8 PM to midnight. Come by the Y and sign up to volunteer for your free T-shirt. And come enjoy the food next weekend.

Over the weekend, decide which professor you want to take out to dinner with money from the Student-Faculty Fun Fund. The money is going quick! Come by the Y for more information.

Have you lost anything this year? Come by the Y to claim it before the annual Lost and Found Grab-bag Auction at Decompression. Come to the Auction for great bargains.

If you are interested in a spectacular wilderness experience this fall, come find out about joining the Y as part of the summer ExComm. We always have room for people to help plan fun trips, parties, and other summer activities.

Sorry, Pleasure Faire tickets are sold out, but we still have plenty of movie tickets and upcoming concert events. Come up to the Y in Winnett Center above the bookstore or call 3 x6163 for more details. We may not know all the answers, but we like to think about the questions....

Statements (cont.)

Junior Class Secretary/Treasurer

Amit "Meeb" Mehra

Yo dudes, it's me, 'Meeb, and I'm running for Junior Class Secretary-Treasurer. I know it's a buttload of work handling the daily in's and out's of holding an office with such a boring and long name, but I think I can handle it. As with every other Techer who is not a math major, handling money will be no problem, since as far as I know there is none or at least very little to be handled. Sure I may skim some off the top, but who really cares. The only jobs the President and I handle are Mudeo and coming up with a wish list for commencement speakers. Ask the other Rickett's House waiters, I have no aversion to getting other people soaked and dirty, so Mudeo will be no problem. Plus I am fairly active in Interhouse athletics, being a former (thank God) Athletic Manager, so I have had experience in organizing such events, including Broomball. I also have had the opportunity to meet a lot of you through various activities, so I hope that y'all are comfortable enough to vote me in. I know my competition is fierce — in fact, Mr. No has gained more cumulative votes in the past 3 Ascit elections than any other candidate in any class. I hope that I can overcome this adversity and become your next Junior Class Secretary-Treasurer.

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what goes on

Caltech Ultimate

LAY OUT!! The Caltech Ultimate Machine is at long last forming with hopes of participating in Ultimate tournaments throughout the Southwest. We encourage all disc-hucking undergrads to come practice with us on the north athletics fields Tuesdays and Thursdays from 4-6 PM. See ya there!!

Scholarship Listings

The Financial Aid Office has applications and/or information on the following scholarship. All qualified students are encouraged to apply. Our office is located at 515 S. Wilson, second floor.

The Desk and Derrick Club of Bakersfield scholarship is granted annually to a resident of Kern County. The application should be submitted in letter form which must include the applicant's major, name of university, outside activities, etc. Special attention will be given to scholastic ability, the level of school and non-school activities and financial need. References from teachers and/or counselors should also be included. Application deadline is August 1, 1991. Applications should be mailed to Jan Walker, Chairman, Desk & Derrick Club Scholarship Committee, P.O. Box 11164, Bakersfield, CA 93389

If you have any questions, please come by the office or call x6280.

Women's Group

The Women's Support Group meets Sundays at 7:30 PM in the MOSH's office. All undergraduate and graduate women, as well as faculty are welcome to discuss the concerns and stresses of daily life in an informal and personal setting. Discussion is moderated by Dr. Lynda Morck, a clinical psychologist. For more information, call Jennifer Jungkuntz at 564-8545 or Yu-Chien Kuo at 578-9504.

Summer College Work-Study

Information and applications for 1991 summer college work-study are available in the Financial Aid Office. If you are interested, please submit the required application as soon as possible, but no later than May 31, 1991. Your entire financial aid application must be complete by May 31 to be considered. The award determinations will be announced as completed applications are reviewed. If awarded, the work-study funding will begin with the July 8th payroll period.

SEDS EVENTS!

While our meetings are over for the year, SEDS activities will remain in full swing throughout the summer. We have an ice cream social on June 7. A number of members will be attending the solar eclipse in Baja this July. For more information about any activity, call Phil Rosenthal at 577-4664.

Folk Dancing on Campus

The Caltech Folk Dancers invite you to come and join us for folk dancing on Tuesday nights in Dabney Hall Lounge. Dances are taught from 7:30 PM to 9:00 PM, with dancing from 9:00 until 11:30 or midnight.

Attention PRE-MED Students!

There will be a meeting with Dr. Marlene Coleman at 4:00 PM on June 10 in the Health Center Conference Room. All pre-med students should attend, especially juniors. Please call the Health Center (x6393), if you are unable to attend or if you need to talk to Dr. Coleman before the meeting.

The Arroyo Singers

The Arroyo Singer's women's chorus, directed by Will Aardappel, will celebrate their 30th anniversary with a concert of "Music of the '30s" by George Gershwin, Cole Porter, Jerome Kern, and Duke Ellington on Sunday, June 9 in Dabney Lounge at 4 PM. The group will have instrumental accompaniment by piano and the Steve Warner trio. Refreshments follow the concert. Tickets are \$6, \$5 for students and seniors. For information call (213) 256-5332.

Summer Contracts

Come by the Master's Office to pick up your summer contract. Deadline to turn it in for summer is May 31st.

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Learn Karate This Summer

Learn to develop physical and mental strength, concentration, discipline, and confidence through the study of karate this summer. The Caltech Karate Club, the oldest University Karate Club outside of Asia, is offering introductory classes to all members of the Caltech community (students, faculty, staff, spouses, JPL). Classes will meet near the football field MWF 5:30 to 6:30 starting Monday, June 17. Club membership is a voluntary \$20/year. For more information, contact Phil Tokumaru x4461, Howard Pritchard x6537, Heather Friend JPL x4-9731 or David Gabai x4382.

Pasadena Folkdance Co-op

Beginning and intermediate folkdances are taught from 7:45-9:00 p.m. at the Pasadena Folkdance Co-op. The Co-op meets weekly on Friday evenings at Throop Unitarian Church at the corner of Los Robles and Del Mar in Pasadena. The Co-op welcomes all community members to enjoy a relaxed Friday evening of dancing and congeniality. There is a pause for refreshments. A contribution of \$1.50 is requested of all who are in attendance. Dancers are requested to use soft-soled shoes to protect the wood floor.

Target Shooting

The Caltech Target Shooting Club was recently established to gather together those members of the Caltech community interested in recreational shooting. In today's dangerous world of international terrorism, and automatic-weapon street violence, shooting skills are an invaluable asset. We hope to provide an opportunity for people to become acquainted with handgun use and safety for their own self defense. The primary role of the club is to organize regular trips to the local gun ranges, provide hand gun safety and use instruction, and to purchase equipment for the use club members. All students, faculty and staff are encouraged to sign up for our mailing list. Just drop us a note in our mailbox in the SAC (152-58).

Student Organization Funding

Student organizations applying for Alumni Association funding for 1991-92 must do so before June 21, 1991. Applications are available at the Alumni House, 345 South Hill Avenue. Funding is approved by the Student/Faculty/Alumni Relations Committee of the Association Board of Directors. The awards will be made in the fall of 1991. For more information, please contact Karen at ext. 6593.

Gay and Lesbian Discussion Group

Gay, Lesbian, and Bisexual discussion group meets the 1st and 3rd Tuesdays of each month from 7:30 to 9:30 PM in the Health Center. This confidential meeting is open to all members of the Caltech community. The first hour is devoted to discussion of a specific topic, and the remaining hour is open for general conversation and socializing. Refreshments are served. For information, please call 356-8331. Beginning June 4th, we will meet only the first Tuesday of the month, through September.

Harry S. Truman Scholarship

The Harry S. Truman Scholarship Foundation awards scholarships to juniors who have outstanding leadership potential and intend to pursue careers in public service. If interested please stop by the Dean of Students Office, 102 Parsons-Gates for more information, deadline is December 2, 1991.

Centennial Symposium

The Division of the Humanities and Social Sciences has invited members of the Alumni Association to participate in their Centennial Symposium on New Directions in Economics to be held on Saturday, June 8 in 24 Beckman Labs from 2-5 p.m. The speakers will be Roger G. Noll ('62), Stephen A. Ross ('65), Mark A. Satterthwaite ('67), and Vernon L. Smith ('49). There will be a reception afterwards.

Watson Fellowships

The Watson Foundation provides fellowships of \$13,000 (\$18,000 for married Fellows) for a year of independent study and travel. Fellowships are not intended to support extended formal study at a foreign university. They encourage instead an informal break in the normal sequence of undergraduate-postgraduate education. Project proposals are due in the Dean of Students Office on Friday, October 11.

Posthumous Degree Awarded

Based on a recommendation from the Faculty, the Board of Trustees has voted to award, posthumously, a Bachelor of Science degree in Applied Physics to Mitchell Pravica, who was killed last January in a tragic accident. Mitchell's parents will be at Commencement June 14 at which time the degree will be formally conferred.

Scholarships Awarded

The Caltech Faculty Committee on Scholarships and Financial Aid has selected 38 undergraduate students to receive 1991-92 Merit Awards, which are based exclusively on students' academic performance and faculty recommendations. The Merit Award stipends range from \$5,500 to \$14,100, or full tuition for the coming academic year. Of the 38 winners, 14 received full tuition awards, 10 received \$10,000, and the remaining 14 were awarded \$5,500 scholarships.

Literature Awards

The McKinney Committee of the Literature Faculty is pleased to announce the winners in the 1991 Contest for excellence in writing. In the category of non-fiction essays, first prize has been won by Jennifer Ann Wright, second prize by Deepinder Brar. In the category of prose fiction, first prize is awarded to Hoyt Hudson. Michael Pottenger and Michael J. Lazzaro share the first prize for poetry. Honorable mention is given to Brad Threatt, Edray Goins, and Sandeep Jain.

Dean's Cup Winners

The Dean's have selected three students to receive the 1991 Dean's Cup. The Deans' Cup is awarded annually to undergraduates whose concern for their fellow students has been demonstrated by persistent efforts to improve the quality of undergraduate life. This year's recipients are Mark Dinan, Catherine Hafer, and Maneesh Sahani.

Mark served as a math and science tutor for the Pasadena School District, the Saturday High School SSP program, and the Union Station Homeless Shelter. Additionally,

Mark was active in the Newman Center. Cathy is being recognized for her leadership as the Board of Control Secretary and Chair, as well as her on-going involvement with the Caltech Y. Maneesh Sahani played a key organizing role as a member of the Board of Control and on the Undergraduate Academic Standards and Honors Committee.

Congratulations to each of these students for their outstanding contributions to improving the quality of the undergraduate life here at Caltech.

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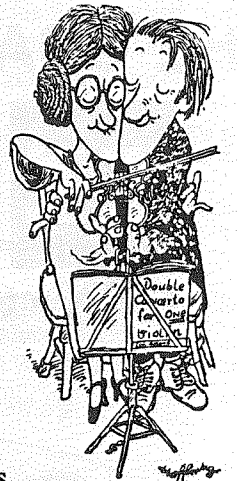
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Berlioz: Trio for Two Flutes and Harpsichord
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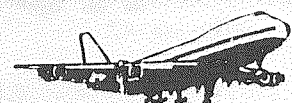
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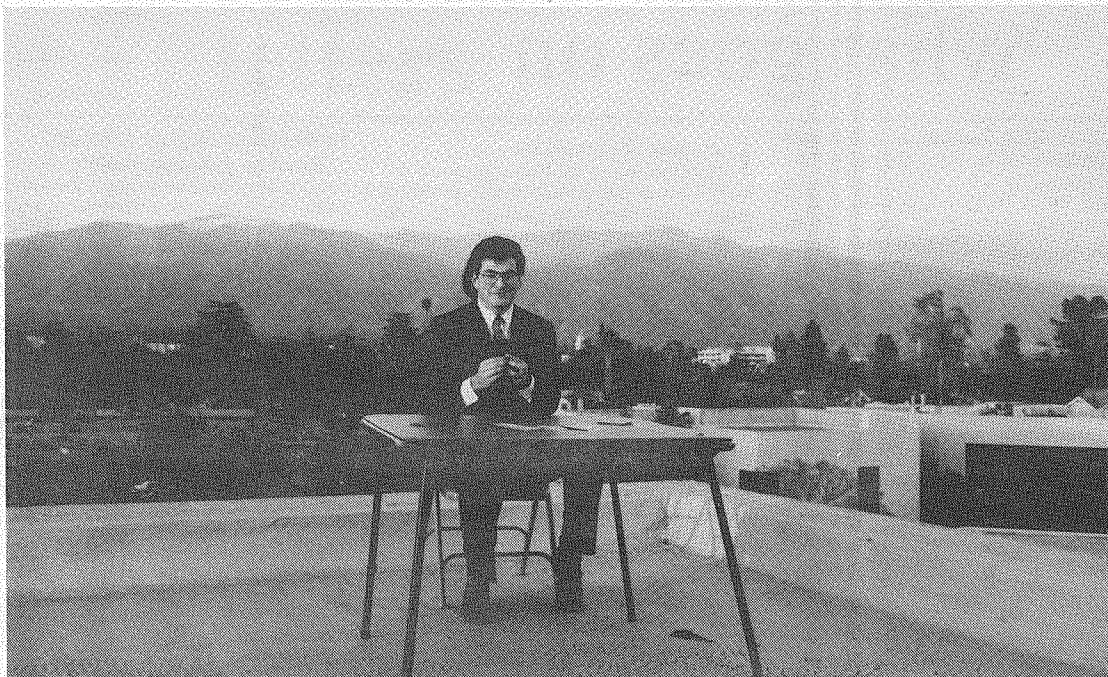


Photo by Julian Chen

Sam Dinkin Poses High Atop Baxter Pondering his last days at Caltech

Bridge Editorial

by Sam Dinkin

North

- ♠ KQ983
- ♥ J8
- ♦ 9
- ♣ J9764

West

- ♠ 42
- ♥ Q93
- ♦ AJ83
- ♣ AQ83

East

- ♠ AJ65
- ♥ T5
- ♦ Q7654
- ♣ KT

South

- ♠ T7
- ♥ AK7642
- ♦ KT2
- ♣ 52

Dir: South

Vul: Both

South Pass 2♥
 West 1♦ Pass
 North 1♠ Pass
 East 2♦ Pass
 Opening lead: 3♥

By noon today, I will be finished with classes with less than two weeks to wait until commencement. I am looking forward to hearing a 'Yalee' give the address across the street. It just so happens that this week that same 'Yalee' gave the commencement address at Yale.

In addition to conferring handfuls of degrees on other 'Yalees', Bush conferred most favored nation status on China. Bush talked about how important China is in the world political arena. He expressed the importance of having some leverage on China's human rights policy. The proposal will reward China.

Bush is saying, "Read my lips. Stop committing human rights violations or I'll have to give you more trade privileges." It does not take a mental giant of Quayle's stature to see the logical flaw in Bush's argument. With the Dan Quayle Memorabilia Museum opening in Indiana, this is a time to revere, not

mock, our country's number two man.

Horhay is not alone in forgetting about Tienamen Square. In Atlantic City, the American Contract Bridge League proudly treated all players at the National Tournament to garment bags manufactured in the People's Republic. Furthermore, the League has arranged exhibition matches with Chinese players. I guess I was alone watching Dan and Tom air gun fire from Beijing.

I picked up today's West hand playing doop in the coffeehouse. doop is duplicate bridge in a box. Each player has a hand record and a deck of cards to make up each hand from tournaments played before I was born. The hand is then played and scored at duplicate—a very late play.

On my lead of the 3, declarer played the 8, pard the ten and declarer won. Next, south led a low spade to my four, the king and pard's

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which went to my queen. I continued the deuce of spades at which time declarer stated, "You suck." He lost a finesse to pard's jack. East returned the five of spades which declarer pitched a club on and I ruffed. I cashed the ace of diamonds and lost the next trick to declarer's king. He ran trumps and complained that we were not pitching enough clubs.

South griped that he did not think I had enough balls to underlead the queen of trumps with nothing in spades. Even in 1968, -200 was a bottom board.

HUDSON HAWK

by Chris Launey

Movie Reviews with Chris

"History, Tradition, Culture—they're not concepts, they're trophies that I keep in my den as paperweights!"

Read on for a description of one of the oddest movies I have ever seen. Heath usually uses his arm as a "randometer" (mainly when talking to Justin) to measure how far removed from the rest of the conversation someone's dialogue is. Under normal operating conditions we use the 10K scale (which responds to things like "My friend Burt here would like to meet another really big asparagus.") Tonight, however, his arm would have been ripped from his body and hurled like, well, a severed limb into the tub of popcorn with extra butter of the woman across the theater. Usually it would be a movie-making faux pas to have movie scenes with dogs hit by tennis balls plummeting from large castles, CIA agents named after candy bars struggling in vain to pry large bombs from their foreheads, and the butler decapitating himself with overgrown switchblades attached to his arms. But *Hudson Hawk* (yes, that is the movie I'm talking about) combines all the best effects of the forces of Chaos in a style not unlike that of *Bill and Ted's Excellent Adventure*. The plot is quite often irrational, (the movie uses the theft of Leonardo da Vinci's horse as a warmup),

transitions are nonexistent, and you will probably shake your head through most of the movie. But hey, who really cares? The movie is good; it's the kind of film that makes one want to ride home in the trunk of the car with a flashlight and bother other motorists or something (don't ask). The ending is...well, I won't give away the ending. I'll just say that the poodle's death is quite gratifying. So go see it: mood-altering psychoactive substances are optional but not at all required for your viewing pleasure.

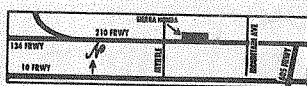
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