

Millikan Medals Awarded

Two prominent California businessmen, Earle M. Jorgensen and Harry J. Volk have been named recipients of the first Robert A. Millikan Medals for distinguished service to Caltech.

Mr. Jorgensen is the chairman and chief executive officer of the Earle M. Jorgensen Company of Los Angeles, and has served as a member of Caltech's Board of Trustees since 1957.

Mr. Volk is chairman of the board of Union Bancorp, Inc., and was president of Union Bank. He served on the board beginning in 1950, until his resignation last year.

Presentation of the medals was made last Sunday, May 3, at a dinner in the Athenaeum. The Millikan medals commemorate the Nobel prizewinning physicist and co-founder of Caltech as we know it, and who served as its first president.

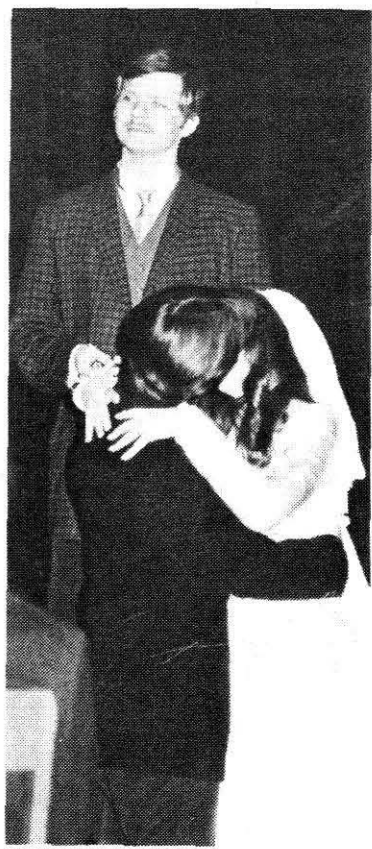
"Millikan was the person who, more than any other, is directly responsible for Caltech as we know it today," said Caltech President Marvin L. Goldberger in presenting the medals. "We are still guided in innumerable ways by his vision of Caltech as an institution devoted to the highest imaginable standards of excellence in research and in teaching."

"Harry Volk and Earle Jorgensen are leaders in the business communities of the state and the nation," said chairman emeritus of the Board of Trustees Arnold O. Beckman. "They have taken important roles in making California a national industrial center and giving southern California a central place in the national economy."

"How fortunate we are here at Caltech that these men have brought to their work as trustees the same deep understanding and powerful insights that they have used so successfully in their own careers."

Dr. Beckman cited Mr. Volk's service as chairman of the investment committee, as a member of the executive committee, and as vice chairman of the board.

"It is fair to say that he deserves a good deal of the credit for the success of the investment policy of Caltech—a policy that preserved its endowment during some difficult years when other institutions, less fortunate in their policies, saw the value of their endowments drop precipitously," said Dr. Beckman.



Joe Balke and Kimberly Carr buss as Robert Lang presides in the marriage scene from "Our Town", the student musical which runs through the weekend. (Tough luck, Kevin L.)

Noland Scholars Named

By T.M. and the Bear

Grace Mah, Sue VandeWoude, and Richard Willson received the Noland Leadership Awards at a dinner in the Athenaeum on Wednesday, April 15th. Each received a check for \$1000 and the congratulations of Robert Noland and several executives of the Ametek Corporation. The awards are funded by Ametek in honor of its president, Robert Noland, a Caltech alumnus. The Ametek Corporation wishes to recognize students who show potential qualities of leadership and who stimulate leadership qualities in others to the maximum possible extent. Ametek feels that "leadership is exemplified by the unique ability of a particular individual to select and develop from among qualified individual personnel or an industrial organization those individuals who can assume the responsibility of managerial skills which is essential to the growth and success of the organization. Without such leadership and the selection of proper persons and the stimulation of others, there will be stagnation in the industry that will contribute to its eventual failure. With this leadership and leadership inspiration, industrial firms and institutions will grow and prosper, making a rightful contribution to our American social and economic structure."

This year's winners demonstrate the qualities of leadership which Ametek seeks to recognize.

Grace Mah has demonstrated qualities of leadership in many ways during

Signals Screwup, not Negligence, Caused Prefrosh Adversities

By Tracy Furutani

A communications failure on all levels of organization, coupled with good intentions, and not negligent RA's and house presidents, as earlier reported, were the causes of Dabney House's lack of prefrosh. Further, Blacker House did receive one prefrosh on schedule. This entire business has caused much mutual misunderstanding on all sides and steps are being taken by the Dean's office, Freshman Admissions, and the individual houses in conjunction (rather than opposed, as it were) to prevent a repeat occurrence.

Blacker House Knew

One misconception raised last week was the similarities between Dabney and Blacker's

prefroshlessness. Explained Blacker RA's John and Diana Barker, the undergrad women knew of the weekend and most consciously decided not to keep a prefrosh and "they [all the Moles] were happy about it [the decisions]". In no way were the RA's responsible for publicizing the weekend; indeed, the only official *communiqué* they received was an itinerary of the weekend's events, mailed a day before the prefrosh came.

Neither was the house president at fault. Steve Ryan, Blacker president, received no notices in the mail to be read at dinner, so thus he did not publicize it; he felt "the organization that ran [the Prefrosh Weekend] should've taken care of it."

The only undergrad woman to receive a prefrosh in Blacker, Linda Wald, had gone into the Admissions Office weeks beforehand to hostess a prefrosh and agreed that of the women she knew, most had decided not to take prefrosh.

Dabney House Didn't

"Why don't we have any prefrosh?" was a query aired frequently the Thursday night before the weekend in Dabney House. RA Don Skelton was puzzled about this, along with many male and female house members. So, the next morning, he went to the Dean's Office where he talked to Dean David Wales, Assistant to the Dean Chris Wood, and Dr. Kathleen Crandall, supervising the weekend from the Freshman Admissions Office.

Charges and countercharges were traded. Crandall claimed that no prefrosh were assigned to Dabney simply

because no interest had been shown (at least, no women had signed up). Skelton then asked why the office did not send letters to each of the undergrad women on campus, as had been done in previous years. Dr. Crandall replied that the Office did not want hostesses who were indifferent (and thus would ignore the prefrosh), which allegedly happened last year.

Next, according to Chris Wood, the matter was taken to the Vice President for Student Affairs, Dr. James Morgan, who agreed that action should be taken on the issue. So messages were hastily sent by Wendy Rasmussen to women in Dabney, soliciting hostesses for a prefrosh who conveniently appeared Friday, and thus was assigned by Crandall to Dabney. Crandall was hesitant to assign her, though, because she felt the prefrosh "would be isolated."

Like his counterpart in Blacker, Luke Will, Dabney president, did not receive advance warning of the weekend. He was angered that letters were sent by the Freshman Admissions Office to solicit additional hostesses from houses whose women had shown initial interest. Thus Dabney received no letters. Will said, "These additional hostesses had also shown no interest, but were solicited merely because they lived in a house that housed women who had shown an interest."

The Aftermath

So why didn't the Dabney House women find out? Ad-

**CONTINUED
ON PAGE 12**



Robert Noland is joined by scholarship winners Grace Mah, Sue VandeWoude, and Richard Willson.

EDITORIAL

Tradition: Good or Bad

Some people say that even in our rapidly changing society traditions die a slow death. Sometimes when newer ways do not work, people try to solve their problems by returning to traditional solutions. Sometimes a return to tradition is good and sometimes it is bad. Unfortunately recent events have given this return to tradition a bad name. Although currently certain people have so far tended toward reviving what can be described as *bad* traditions, some traditions are worth reviving.

On one hand, the Ayatollah Khomeini recently showed the world that a return to a traditional lifestyle can be detrimental to one's health. For some people in that country, the change was well received since it meant that they no longer had to continuously readjust to the ever changing world. Apparently, life was again as it was many, many years ago; a lifestyle scarcely touched by the centuries. *Apparently*. By any other definition, life had not improved in that country. The new ruler is still a dictator. The problems are the same or worse. *But now more people are being killed by the secret police*. Yes, some traditions from the shah's era were still kept by this new regime. A return to the traditional lifestyle certainly does have its drawbacks.

On the other hand traditions are a necessary part of life. Without traditions, people would spend an enormous amount of time trying to act *properly*. People would no longer know what they could do without getting people angry with them. In our pre-

CONTINUED ON PAGE 3

THE CALTECH Y..... Fly by

Today, Friday, May 8, 1981, Le BoBo Productions presents (in conjunction with ASCIT and the GSC) THE DAVE POZZI QUINTET. This group intends to jazz up your afternoon, so bring your best friend, your dog, your lunch or whatever, out to the Quad at noon and relax.

Today, Friday, May 18, 1981; PASADENA SYMPHONY trip winners should come in and pay for their tickets.

Saturday, May 9, 1981; DAY HIKE to Mt. Baden-Powell. Drag your bodies out of bed and enjoy the scenery and fresh air all day long. We plan to leave from behind Winnett Student Center at 9:00am sharp!! Remember to bring your lunch and plenty of liquids.

Saturday, May 9, 1981; PASADENA SYMPHONY TRIP. Hey folks, it's a good program that you don't want to miss.

Tuesday, May 12 and Wednesday, May 13, 1981; I'M GETTING MY ACT TOGETHER AND TAKING IT ON THE ROAD with LOLA FALANA sign-up begins. The Y, your local theatre chapter, has sixteen tickets to auction off. The total cost of these tickets, including transportation, is \$11. A lottery will be held on Wednesday at 4:30pm and the lucky winners will be posted on The Y window immediately following. The trip takes place on Sunday, May 17, 1981, at 2:30 pm to the Huntington Hartford.

Tuesday, May 12, 1981; EVENING SPOTLIGHT SERIES continues with Drs. Nicholas Renzetti and Michael Klein talking on NASA PLAN FOR THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE. The Aliens land in Winnett Lounge at 8:00pm. Come see what they can do for you.

Wednesday, May 13, 1981; -CANCELLED-CANCELLED- Dr. Louis Dupree's talk on Guerrilla Warfare in Pakistan and Afghanistan has been cancelled.

MISSIVES

To the editors:

The article on the front page of last week's (May 1) *Tech* accused us, the R.A.'s of Blacker House, of negligence. We are both angry and hurt that our names should have been slandered in this way.

We were never informed as to the situation regarding the pre-frosh weekend. We received no communication beforehand telling us we were supposed to announce the weekend to the girls in our House as Mr. Swindle suggested. The only way we could be accused of negligence is if we had received some telepathic communication which we had failed to impart

to our students. Alas, even this input was denied us.

We suggest in the future that Mr. Swindle researches more thoroughly before he makes such defamatory statements in print. As R.A.'s we work very hard to ensure that we inform our students of any information concerning their welfare that comes our way. Had we been informed that the accommodation of pre-frosh was our responsibility we would have done our utmost to ensure that the information reached the appropriate channels.

We do our job to the best of our ability and don't feel that our actions have warranted such abuse. We refuse to be made scape-goats for the inefficiency of others. There was obviously something very amiss with the organization of the pre-frosh weekend, but the blame for that in no way lies with the R.A.'s of Blacker House.

Yours Sincerely,
Diana & John Barker

Fellow Bowen

Wallace L. W. Sargent, the Ira S. Bowen Professor of Astronomy at Caltech, has been elected a Fellow of the Royal Society of Great Britain.

Sargent, who is also the executive officer for astronomy at Caltech, was chosen for his "achievements in observational astronomy, particularly with respect to studies of Seyfert galaxies and quasars."

An authority on quasars, galaxies and supernovae, Sargent came to Caltech in 1966 as assistant professor of astronomy. He earned his bachelor's master's and doctoral degrees at Manchester University in England. At

Caltech he has conducted research on the composition of stars and their mass loss, the composition of quasars and active galactic nuclei, the dynamics of clusters of galaxies, and the evolution of galaxies.

Sargent is a member of the International Astronomical Union, the Royal Astronomical Society, and the American Astronomical Society, and is a Fellow of the American Academy of Arts and Sciences. He has won an Alfred P. Sloan Foundation Fellowship and was awarded the Helen B. Warner Prize of the American Astronomical Society.

Barkley C. Lee, O.D.

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NEXT WEEK: What's Up Doc

Harry Gray Becomes Beckman Scholar

Dr. Harry B. Gray has been named Arnold O. Beckman Professor of Chemistry here at Caltech, in an announcement last Friday by President Goldberger.

"When the Beckman Professorship was endowed last year by Arnold's many friends, we wished to find a chemist of international distinction to be its first occupant," said Dr. Goldberger. "The choice of Harry Gray is a natural one. He is known, not only for his brilliant research, but also for his superb teaching and his inspirational leadership of his division. This choice, we believe, represents a signal honor to two great scientists."

Dr. Gray, 45, is currently the William R. Kenan, Jr. Professor and professor of chemistry and also chairman of the Division of Chemistry and Chemical Engineering here at Tech. He is widely known for his research on electron transfer processes involving copper and iron atoms bound to protein molecules. This work has laid a foundation for understanding how energy is stored in chemical form by liv-

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The California Tech

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Editors-in-Chief
Roger Fong
Tracy Furutani
Ed Suranyi

Associate Editors
Stuart Goodnick
Dave Younge

Writers

Joe Balke, Tim Brazy, David Carlan, Margie Farrell, Mardi Gray, Lisa Grenier, Christopher Hawley, Susan Hunts, Duncan Mahoney, H.N.I. Mayhem, Flake Ste Marie, Norma Ofsthun, Carl Rigney, Bruce Sams, Lee Sunderlin, Glen Swindle, Perry Walker

Photographers

Ken Gant, Steve Swanson, Mark Waggoner, Paul Ste Marie

Production

Nick Smith, Mark Purtil, Steve Allen

Business Manager
Mike Doty

Circulation Manager
Paul Eskridge

Special Consultant
Manny

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Versadrek

by Carol Danvers

Leaping with great haste, my youthful muscles carried me easily from the path of the charging B&G truck. I rolled in Health Center approved fashion as I hit the grassy verdure before the south end of Dabney Hall, and lay there panting. It had been close, and I was lucky to be alive.

Thoughtfully I watched the careening object which had nearly caused my untimely demise, as it swerved down the walkway. It was a standard B&G vehicle, dull white, and noiseless because of its high technology electric motor.

What was the purpose of such trucks? Why did they spring up, seemingly out of nowhere, to terrorize innocent walkers? Frequently I had seen them transporting women and equipment and men to maintain and beautify our resplendent campus, to deliver postage, and to pick up books from the library book drops.

In one of these tasks, the beautification of the

campus, these small vehicles are clearly unsuitable: no one has realized that because there is always at least one rather ugly truck in view, they have become a permanent albeit dynamic part of the landscape. Therefore I propose that these trucks be beautified, painted in gay colors other than the drab white the majority of them are.

Due to the predatory nature of B&G trucks, I envision them colored to resemble the great cats; yellow with black stripes, like the ferocious tiger, or with black spots, like the feared jaguar, or with a linear combination of spots and stripes, like the frumious ocelot. And why not? Certain wild animal parks have given their maintenance vehicles zebra stripes and I see no reason why Caltech should not follow suit.

If it is not too much to ask, I should also like to see some sort of pedestrian warning mounted on these trucks, perhaps bells <stay bells?>, or some other noisemaker to tell tale of the approach of these otherwise silent stalkers. Of course, this creates one more problem: who is going to bell the cat?

Editorial Tradition

FROM TWO

sent society, it is bad enough that American laws are changing constantly. Just today, the *Tech* received what amounts to three hundred pages of new postal regulations. Just think what would happen if people had to read the equivalent of this manual every week just to get along peacefully with their neighbors. Traditions, therefore, are a necessary part of society if we are not to spend all of our time trying to reorient ourselves to our society.

Sometimes a return to the "old" ways is good and sometimes it is bad. It is however, up to the people to recognize which changes will be good and which will be bad. By the time changes are actually enacted, it is already too late to prevent the bad from getting worse. This, however, does not mean that people should oppose all revivals of old traditions nor should people fight to destroy all traditions.

I must conclude, however, that if some person of small mind and soul were to seek control of ears, head and body of every person and/or entity, I would immediately help to fight to retain our present traditions.

Roger Fong

Harry Gray

FROM TWO

ing systems.

Gray has also done pioneering research relating to the conversion of solar energy to useful chemicals. This research involves the study of the chemical behavior of electronically excited inorganic molecules. Gray has shown that molecules containing clusters of metal atoms can transfer electrons after being excited by visible light. This work represents an important step in the development of efficient systems for converting solar energy to useful fuels such as hydrogen.

Dr. Gray received his PhD from Northwestern University and came to Caltech from Columbia University as professor of chemistry in 1966, shortly after becoming the youngest full professor in chemistry in Columbia's history. In recognition of his research, he was elected to the National Academy of Sciences when he was only 35. His honors include the 1970 American Chemical Society Award in Pure Chemistry; the 1978 American Chemical Society Award in Inorganic Chemistry; and the Manufacturing Chemist's Association Award for Excellence in Chemistry Teaching. He also has been honored by the Remsen Memorial Award, the Richard C. Tolman Medal, and the Harrison Howe Award. Recently he was selected for the Scientific Achievement Award of the City University of New York. He is author or co-author of more than 300 research papers and 14 books.

Dr. Beckman was the first alumnus to be elected to Caltech's Board of Trustees, and has served on the Board for 27 years. After serving as its chairman from 1964 to 1974, he was named chairman emeritus. He continues to work actively on the Board.

Dr. Beckman entered Caltech as a graduate student in 1923 and received his PhD for his research on photochemistry in 1928. He stayed on at the Institute as an instructor, leaving in 1940 to devote full time to the development of scientific devices through Beckman Instruments, the company he founded.

Among his many contributions to the Institute are Beckman Auditorium, Caltech's premier site for educational and entertainment events, and the Mabel and Arnold Beckman Laboratories of Behavioral Biology.

KELROF

The fifth annual KELROF 24-hour relay will take place May 23 and 24 at the Caltech track. Several teams of ten people each will participate in this event, in which team members take turns running miles for 24 hours, between 9:00 am Saturday and 9:00 am Sunday.

Continued on Eleven

NOBAND

FROM ONE

presence, a level of excellence in all aspects of life at Caltech is demonstrated which instills a desire in others to achieve similar status, and through her interaction with students, she encourages individuals to develop and expand upon their own capabilities."

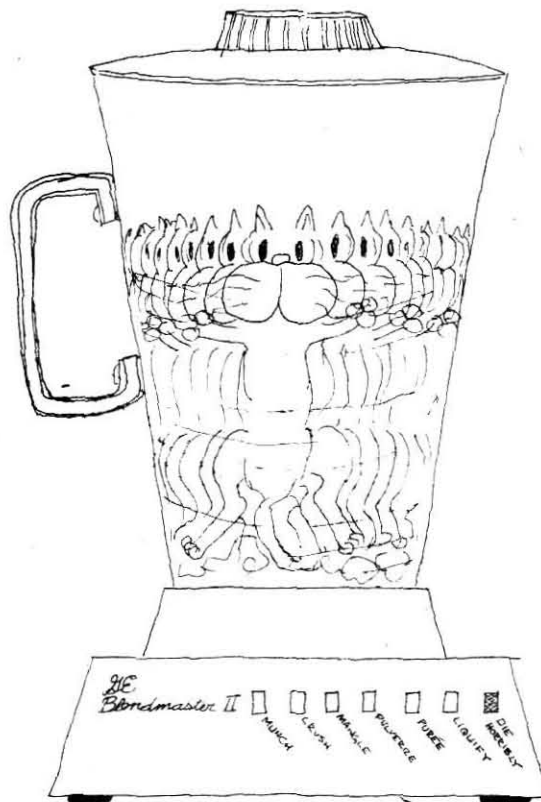
Sue Vandewoude has consistently been a very active stu-

dent body member since her arrival at Caltech. As a freshman, she immediately delved into "student activities" and began to win recognition from her peers as a terrific organizer and initiator. She served the student body government as a Director-at-Large and as Social Chairman. Last year, she participated en-

thusiastically and constructively in the first Faculty-Student Conference. This year, she worked effectively to increase the number and quality of social events for students. Although Sue has held many offices at the house and student body level, her real contributions have been at an informal level. She has been involved in improving the quality of student life both academically and socially. The selection committee feels Sue is outstanding because she is strongly motivated to carry out every task she undertakes as best she can—and she always does so in a well-thought-out and organized manner.

Richard Willson has served as a constructive and effective leader throughout his undergraduate career at

Caltech. He has been very effective in policy-making in a wide variety of areas: the Honor System's Board of Control, the Student Body's Executive Committee, the Student Board of Directors, the Interhouse Committee, and the Student Health Advocate Program. Richard is probably most appreciated for his consistent display of "wisdom, integrity, insight, and conscientiousness." He has a striking ability to speak in such a manner that others not only listen, but are also inspired to work hard toward effective, positive changes. Richard is widely respected and trusted by his fellow students. He is presently working in areas to improve the quality of life on campus for undergraduate students.



Q. What's calico and goes 60 mph?

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What is contraception? It's choice instead of chance. The planned prevention of pregnancy. Today you have a choice—there are a few safe, practical and effective methods of contraception available. Practicing effective contraception gives you control over your body and your life, gives you time to strengthen your personal relationships, prevent financial and social hardships caused by an unexpected, unwanted pregnancy. Babies need and deserve to be wanted, loved, supported by both partners who are ready to provide for those needs.

As you know, conception is when a single male sperm meets a ripe egg cell in the woman's fallopian tube and the egg is fertilized. Millions of

sperm in one ejaculation can live for as long as 72 hours. The woman releases a ripe egg from the ovaries once a month when it travels through the fallopian tube to the uterus. Ovulation: the release of the ripe egg, usually occurs 10-14 days before menstruation. If the ripe egg is not fertilized within 24 hours, the egg and uterus lining prepared to nourish and fertilize the egg will be passed out of the body and this is called menstruation. That's where contraception comes in. Contraception is any method that prevents sperm from meeting egg.

What's the best method of contraception for you? Only you and your partner can decide that. Some factors you will want to consider are safe-

ty, effectiveness, convenience, cost and personal taste.

A couple of non-prescription methods of contraception are the condom, 85-90% effective when used alone, approaching 100% effective when used with a spermicidal foam which in combination is strongly recommended as opposed to one or the other alone.

Prescription methods available are the diaphragm, a thin rubber cup with a flexible spring rim, which fits over the entrance to the uterus and with the specially designed sperm-killing jelly or cream inside the cup prevents sperm from reaching the egg. The "pill", an oral contraceptive, is made of hormones similar to the female hormones, estrogen and progesterone. The pill works primarily by inhibiting ovulation and produces thick cervical secretions which act as a physical barrier against sperm. Not all women can be prescribed oral contraceptives for

medical reasons. A complete history and physical exam is necessary first, yearly check-ups and medical supervision is needed through the course of taking the pill.

The IUD or intrauterine device, a plastic or plastic and metal device, is inserted by a specially-trained practitioner into the uterus. The IUD does not stop ovulation and a commonly-accepted theory of how it works is that the device prevents implantation of the fertilized egg by acting as an irritant to the uterine lining. A few women become pregnant with the device in place. There are other complications which you should be well informed about before having one inserted.

So-called "safe period" and rhythm methods not nearly as reliable as any of the above mentioned need to be very carefully planned out by highly-motivated couples with the best information available.

An effective birth control

method is always better than an abortion, but if an unwanted pregnancy does occur, we are here to help you and provide referral as necessary.

It's up to you to choose a method that's effective, safe and comfortable for you. The Student Health Center practitioners encourage you to ask questions. Our goal is to provide information and supportive counseling to young men and women about issues of contraception, sexuality and health and to help persons learn how to take responsibility for their health and make informed choices. Call the Health Center for an appointment, x6393, from 8:00 am to 12:00 noon daily.

—Rhonda Campbell, RN, NP
Health Center 1-8

Intelligent Conference

By Juanito Villanueva

Next Tuesday, May 12, the Caltech Y brings Dr. Nicholas Renzetti and Dr. Michael Klein, program managers for SETI from JPL, to speak on NASA's plan for the Search for Extraterrestrial Intelligence.

A number of factors have triggered a current explosion in the search for extraterrestrial intelligence. At a historical level, Man has always maintained a curiosity as to his place in the universe, growing from a geocentric perspective towards a doubting of the earth's uniqueness in the universe as a bearer of living things. Only recently, with improved technology, has it been possible and practical to search for extraterrestrial intelligence, because the sensitivity and resolution available to scientists in the past was not sufficient to study weak radio signals from the cosmos.

Another reason to now intensify efforts to search the stars results from increasing radio pollution. Larger and larger amounts of the electromagnetic spectrum are being used for radio communications and such. These will increase the background noise levels in the reception of signals from space. Postponement of the search for intelligent extraterrestrial signals might make it very difficult to do the study later, amidst the increased microwave cluttering.

In technological readiness, the search might now be fruitful. Dr. Renzetti and Dr. Klein will discuss in more detail the reasons (including philosophical ones) for an intensified search for intelligent life in space. They will outline NASA's program towards this endeavor, and will describe the current available technology and facilities to be used for the effort. If you, as a Techer, have always wondered if there is life "out there," or if there is, how to find it, come to Winnett Lounge at 8:00 pm on Tuesday, May 12 and ask the experts how they do it.

ARMAMENT AND DISARMAMENT

"I BELIEVE THAT THE PROBLEMS OF LESSENING THE DANGER OF ANNIHILATING HUMANITY IN A NUCLEAR WAR TAKES ABSOLUTE PRECEDENCE OVER ALL OTHER ISSUES." Andre Sakharof, Pres. of Russian Academy, Father of Russian Nuclear Bomb. CURRENTLY EXILED

We Can Reverse the Arms Race

In the 1980's, the American people must respond to several crucial questions about how to deal with the issues regarding nuclear weapons and the prospect of nuclear war. This lecture series is designed to provide information and to answer questions so that as an informed public we can make reasoned choices AND affect the choices of our leaders.

Dates: Friday, May 15 8 p.m. to 10 p.m. 7:30 Registration
Saturday, May 16 10 a.m. to 3:30 p.m.
Place: Neighborhood Church, The Family Center
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Cost: \$15.00 (students, \$8.00)

The program will focus on these topics...highlighting terminology, basic assumptions, and strategies of those formulating our defense policies:



NO!

- The Nuclear World Today
Where we came from, are going, and consequences of nuclear war.
- Arms Control and Disarmament
A history, from Hannibal's elephants to the MX, and criteria to use in evaluating its success and design.
- Nuclear Arms Control
Salt 1 & 11, accomplishments and limitations; Non-proliferation of nuclear weapons; Nuclear free zones; and, projects for controlling Nuclear Weapons.

This program is presented by Dr. Richard Burns, Director of the Center for the Study of Armament and Disarmament, California State University, Los Angeles. Professor Burns is a specialist in diplomatic history and the history of arms control and disarmament from preliterate societies to the nuclear age. The Interfaith Center for Reversing the Arms Race will also have literature available and provide information on what can be done right now to make all our futures more possible.

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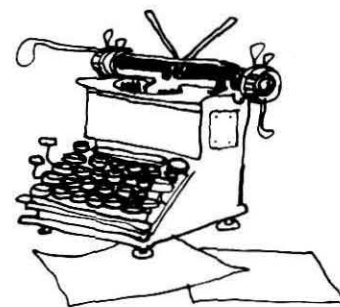
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FEATURES

Our Town



WON'T WE GO—

By Mah Mah

The smell of death was all about me as I entered the *Tech* office Thursday night. The four slightly warm, fairly bloody bodies tipped me off that there had been something afoot earlier that evening. I wondered what had happened. Quickly scanning the scene, I rubbed my chin. My perceptive eyes noted several things: One, they were the crew of *The California Tech*; two, they had only been dead a few hours; three, the layout troll's gold pieces had not been taken; and four, my stash of Pall Malls which I had kept in the office was missing.

"Damn," I cursed, as I stepped over the gruesome bodies. I saw the masks of death. But instead of the fear or surprise that I had expected, these corpses had a sanguine (to complement their sanguinary) expressions to carry to the next world. My stomach was turning; I had to leave.

I reentered the cold, windy night. An eerie hunter's moon cast a gray pall over all it oversaw. I needed to think. What had been the motive? Why those people? Who was the murderer? Why had he swiped my stash?

Chewing this over in my mind, I paused to light a cigarette. I took three long, measured draws and then cast it away. "Cancer stick," I thought.

I cocked my Army .22, a good solid piece I had acquired in my tour of duty in France; it had dispatched a good many frogs. There was one place I could get the information to nail the murderer, and I knew I was not welcome there. I nervously started to walk, my heart pounding out Beethoven's fifth in double time. I rounded the corner and beheld the joint, Dabney's, a cheap waterfront dive, full of conmen, sailors and B girls. Even at this late hour, the place was abuzz with activity; drunks were being rolled, women were being propositioned, underhand deals were being made.

I entered cautiously, passing the front desk, two rows of beat-up couches, and several unshaven, pathetic patrons. My contact was waiting at the bar. He was playing the bartender, acting shifty. He peered over the glass he'd been wiping.

"How's by you, Razorhead?" I asked, settling into a stool.

"Alright," he muttered in reply, still wiping, albeit more slowly.

"Listen, I want the news on the hit at the *Tech*."

"What're you talking about?"

I was in no mood to play games. I reached over the bar and grabbed his shirtfront, tearing off the top two but-

tons. I was now kneeling on the bar.

"OK, lemme go," he grunted. I obliged, and slipped him a fiver. "You know those guys over there?" he pointed at a crowd of particularly noxious cretins. All wore stained visors and strained expressions. Right now, they were squabbling over a cigarette.

"Yeah, I know 'em."

"Well, they came in an hour ago, ordered five shots of two cents' plain and took up my best table," Razorhead was looking for real pathos now. "They were braggin' about what a great night they had and brought out a whole ton of cigarettes and smoked up the whole place."

I looked at them more closely. There was something about them that I almost could pin. Razorhead gave me a shotglass of whisky, which I downed in an instant. Then I nearly gave it back up; my legs were going weak. I looked at Razorhead, but his cold blue eyes were steady.

"I'm sorry, Sam, but they got here first."

Then I realized. Those guys were the murderers. They were the ex-crew of the *Tech* from years past. They had been upset by the present crew and they had taken matters into their own hands. They had swiped my stash.

My hands were shaking. The gang had risen as one, and were coming over to me. I knew this was the end. I was trying to think of a good thing to chisel on my tombstone... "Sam Panickpah-he lived to die" and searched my pockets for a pencil, when I found my .22.

"I'm gonna take a few with me first," I thought. Mustering up all the coordination I had left, I wheeled around and blasted Razorhead, swung back and fired five more shots in quick succession. The first tore off the head of the nearest crumb, his brains and other such adipose material flying over the rest. The tall one fell with the second in a particularly gory display of red. The third, a short fellow, rumored to be part of the crew from ten years ago, had his skull cleaved neatly in half by a well placed hunk of lead. The final two had caught the photographer of the bunch in the heart, exiting out his back, leaving a neat slimy cavity for a chest.

I turned. Razorhead was still alive, but he didn't have much of a face. Sickened I brought a bottle of Chablis down on the remnants of his head.

The place was deathly still; they let me out and I wandered onto the street, wondering where my next cigarette was going to come from.



Jimmy Durante was resurrected and given special powers by biological engineers at Caltech. "The Schnazz" then proceeded to wreak havoc in downtown Pasadena, completely destroying a department store and melting cars in a parking lot with his heat ray vision. When asked the reason, Mr. Durante replied, "Hey, you know, it gets kinda boring."



May 21, 8:00p.m.
Ramo Auditorium Caltech

BANDORAMA

Caltech Wind Ensemble
Tony Plog, Trumpet; Guest Artist

ALSO

Caltech Jazz Band
William Bing, Director

FREE!



James Boyk to Play at Tech Today

Ordinary People

Ordinary People is not an ordinary movie; it is an intense, emotional film. The story follows an upper-middle class family, in Lake Forest, Illinois, as they try to cope with each other while adjusting to the death of a son. The movie begins a year after the fatal accident, during which the remaining son attempted suicide.

The principals in the film are uniformly excellent: Donald Sutherland (father), Mary Tyler Moore (mother), Timothy Hutton (son), and Judd Hirsch (psychiatrist). I was especially impressed by Mary Tyler Moore's performance; she successfully conveys that her character is not a villain, but rather a woman in a situation she is unprepared to

handle. Nothing in the repertoire of actions and reactions used by the model-upper-middle-class-suburban-American-housewife is designed for these circumstances.

I highly recommend Ordinary People. Most viewers will probably find the movie too intense to see twice, but almost everyone will appreciate it once. —Susan Hunts

The Caltech Y, ASCIT & GSC present

JAZZ PIZZAZZ with... **Dave Pozzi** **Keith Saunders** **QUARTET**



Friday, May 8 at NOON, on the Quad

ROYAL CLASSICAL GUITARS

(OPE)-Celedonio Romero, of the Romero classical guitar quartet, will be presented with the Orden de Isabel la Catolica on Saturday, May 9, during the afternoon portion of a marathon guitar concert at Beckman Auditorium. Conferred upon Romero by King Juan Carlos the First of Spain, the award is made for outstanding presentation and diffusion of Spanish music in the United States. Presenting the award will be The Honorable Jose Manual Paz, the Consul General of Spain. Former recipients of the award include Andres Segovia, guitarist, and Jose Iturbi, pianist.

The afternoon portion of the marathon guitar concert, beginning at 3:30 p.m., will feature five Boccherini quintets for solo guitar and strings. Celedonio Romero will perform Quintet No. 7, Pepe Romero will play Quintets No. 1 and 2, Angel Romero will perform Quintet No. 9, and Celin and Angelita Romero will conclude with Quintet No. 4. Supporting the Romeros will be Ronald Copes and Michelle Makarski, violin; Myra Kestenbaum, viola; and Gabor Rejto, cello.

Following a dinner break, the 8:00 p.m. evening concert will feature music from the baroque to the romantic Spanish era. Works of Vivaldi, Telemann, Sanz, Sor, Giuliani, Torroba, Albeniz, Lobos, Chapi, and Breton will be performed.

Tickets are now available for the marathon concert at all Mutual and Ticketron agencies and at the Caltech Ticket Office, located at 332 S. Michigan. Special student rates are being offered. Call x4652 for further information.

ENTERTAINMENT

MOVIES plays **SPECIAL EVENTS**



(OPE)-James Boyk, pianist, will present a recital in Dabney Lounge on Friday, May 8th at 8 p.m., and will repeat the concert on Sunday, May 10th at 2:30 p.m. A Chopin Prelude group, the Mozart Sonata in A Minor, K. 310, and the Prokofiev 6th Sonata will comprise the program. There is no admission charge for the concert, and the audience is invited to meet the artist at the conclusion of the concert.

Boyk has been the Artist-in-Residence at Caltech since 1974, where he is Lecturer of Music and gives weekly Interpretive Performance classes for laypersons and musicians. "We talk about the entire process of translating a musical score into a performance. This includes not only interpretation and technique, but also such topics as instrument design and its effect on performance, acoustics of concert halls, and the psychology of program planning," states Boyk. The artist also presents a Projects in Music and Science course, a class jointly sponsored by the Engineering Division and the Division of Humanities and Social Sciences.

A graduate of Harvard, Boyk debuted with orchestra at age 16 and has appeared in Europe, Canada and the United States, and on FM radio in Boston, Montreal, Los Angeles and other cities. His television work includes videotapings for KNBC, KCET, and Theta Cable in Los Angeles, and most recently, "Two on the Town" for CBS.

Boyk's newest record release includes works of Chopin and Schumann and is on the Performance Recordings label. He is a contributor to the second edition of The Next Whole Earth Catalog, due to be published this summer.

For further information concernig the May 8 and 10 recitals, call x4652.

Princess Charlene of the She-Srithii

the strange tale of a bargain basement jungle lady

by James Host

Interlude: The Princess Slays the Tech Eds

This interlude is dedicated to all those persons who complained about violence against women in episode 6.

Sunlight filtered down through the leaves of the tall forest trees and dappled the lovely half-clad form of Princess Charlene as she strode silently, poetry in motion, down the simple game trail. Feline, she stalked prey, for the yellow sun had passed twice since last she had eaten, and then it had been the tough stringy flesh of the carnivorous fox. She was beautiful as she was savage, the incarnation of a forest goddess, <not a forest nymph. —The Royal Censor>

A smile touched her lips as she contemplated the forest and permitted herself to think about the fine meal she would soon be enjoying, but this smile faded when, unbidden, a jarring thought came into her mind. <Normally, she doesn't think?? —j random commentator>

"Thursday afternoon," it said silently, in a voice not her own. It was a summons, a mystic summons; why it was calling her Princess Charlene did not know, but this she did know: she must go, regardless of her desires. The caller must be an unusually powerful sorcerer.

Suddenly, she was engulfed by a wave of nausea <I suspect that she has been eating Saga —an on-campus teacher> <No, you twit, she hasn't eaten anything in two days! —The Author> which poured over her, drowning her in disorientation, and then washing her up... She felt like a wiped-out surfer.

The disorientation <is disorientation anything like dal orientation we received at Catalina?? —Exfroshling> passed quickly, and the princess touched the hilt of her enchanted sword for reassurance. She stood up, and hastily readjusted her chain-mail bikini, for, while such garments are undoubtedly fashionable (and at least picturesque), they are undeniably impractical. There was grass beneath her feet, and some strangely twisted trees. Strangest of all, though, were the pathways and buildings she could see which seemed to be built almost entirely of false stone.

"Sorcery at work here," she whispered, and her words were borne away upon a chill breeze which sprang up seemingly from nowhere.

Princess Charlene turned toward the odd edifice closest to her, and noticed that one room of the structure, walled with glass, glowed evilly from within. She walked toward the glowing room, and stood without, <without what? Without shame, like the author?? —an outraged user> <no, without intelligence, like the outraged user. —The Author> <and without good spelling, like both of the above. —The Author's Keypunch Secretary> to peer at the goings-on inside the room. She saw four deformed dwarfs engaged in cryptic tasks: they must be warlocks, for each wore a shirt colored the forbidden green of sorcery, and upon the back of each shirt was a rune printed in white. As well, there were weird tables from which light was omitted, and many a spell book, volumes of forgotten arcane lore.

These, the princess felt, were the ones she had been sent to this strange place to slay. She drew her enchanted sword, thrilling to the hiss it made as it left the elaborately bejeweled leather scabbard which hung at one tastefully curvaceous hip. Charlene's finger stabbed sensuously at the concealed activating button, but answer came there none! The sword refused to glow with sorcerous power!

Coldly, she vowed to shakt these malevolent dwarfs even if she had to use her bare hands to do it. After all, if there was no sorcery in the area, they could pull no dirty tricks on her; and physically, they did not look her match. Indeed, they were so short that were they standing, facing her, they would not even come up to her <word deleted for obvious reasons. —The Royal Censor>.

With a cry of savage fury, Princess Charlene leaped through the window, shattering the glass. It was pane-ful. Instantly she was attacked by one of the dwarfs wielding an Exacto knife. Easily she sliced off his offending member, and laughed as her enchanted blade cut a half-dozen times through her first assailant. One down, three to go.

A second dwarf was faster than his late comrade: he was upon her almost 'ere the <pieces of> the first had hit the floor.

In her loathing of being touched by such a grotesque creature, Princess Charlene dropped her sword; it would have been no good in this close infighting anyway. This dwarf wielded nought but his bare hands; with these he fell for her <word omitted —The Royal Censor> <sorry, I got carried away; the word should have been "dogger" —The Author>, while she sought his jugular with her strong, even teeth. <she must have worn braces during her childhood. —j random commentator> While his hands may have been distracted from their goal at the weapons belt of the princess, her teeth were not; soon they had gouged a wound of prize-winning size in his neck, a pulsating gaping hole from which blood shot at an astonishing rate, an awful red maw through which an express train might be driven. The dwarf died in crimson agony. <you shall have to change this: it looks too much as if the past-down troll dies of terminal hickey. —The Royal Censor> <true, but at least he dies happy. —The Author>

The remaining two dwarves were standing in front of their precious word processor, as if to ward off the fiery Amazon before them; one died moments after she had regained her beloved Xelos <that's her sword, for all those pilgrims who missed April 24's Tech —The Author>, his guts steaming and writhing as they spilled messily out upon the tile floor.

"Any last words?" she asked the lone remaining dwarf.

"The pen is mightier than the sword?" he replied, clutching at straws and incidentally at his gold-plated ballpoint.

She slid her long slim blade into him almost gently, watching the dismay upon his face. A few scarlet bubbles of blood appeared at the corner of his mouth, there to burst and drip from his chin. Weakly, he grabbed at the sword; but all at once he seemed to deflate: his right lung made an obscene sound as it collapsed upwards. Princess Charlene cut him open, and skewered his heart upon her elvish sword. It was a particularly disgusting organ, looking diseased because of its horrid black rotten color, and it palpitat-

ed feebly at the end of her weapon.

"Ooo! lckey-poo!" the princess exclaimed squeemishly. <misspelled on purpose —The Author's Keypunch Secretary> The room was a shambles: segments of intestine writhed like huge earthworms upon the floor in a slime created of blood and their own bile, not to mention the proteases, lipases, carbohydrases, and other such fclgercarb found in the intestinal juices. Princess Charlene stepped back in disgust, then stomped upon an intestinal fragment which had been particularly intent upon climbing up her leg.

But now, what? She had slain all four of the evil magicians, yet she was not instantly transported back to her own unending epic. Perhaps there was

Next week: The Author is kicked out of Lit 15 and changes his name and transfers to MIT!!!

Jocks a Lot

by Tek Segu

Have you ever been accused of wearing a "jock watch", which only has a stop watch? Do you wear "jock T-shirts"? Are you branded as having a "jock intellect"?

Caltech seems to be brimming with a jockphobia. I mean, some houses even have rules against being seen on the athletic field or in the gym. Quasi-normal activities such as running to your Phys rech because you're late, is thought worse than picking your friends nose. Anybody seen by the tennis courts is likely to be labled a "superjock", a term of disgust and extreme derision.

The word "jock" is vastly overused. Instead of being applied to over-exercised, muscle bound people, it is applied with the justification that "that jock down the hall does it, so it must be jocky."

Like in the other world (Yes folks, that's right. There is a world beyond Tech.), many Techers have a non-positive attitude towards their ineptness. Non-application of knowledge (meaning - not using technical terms for anything, including homework) is called "wood-headed" and is a sure sign of jockism. One is supposed to work all hours of the night; it's the style to brag about all the TV you missed while you were busy studying. Anyone who can't or won't recite the periodic table and all three volumes of Feynman forward and backwards isn't fit to be called human. Seniors complain that their apathy is derided by those who feel that work is important.

This is nerdly. Caltech was meant for malodorous types as a haven from anti-fitness nihilists, not skinny wimps. The word "jock" should be used in its proper context.

After all, Tech should not take the strap to the jocks.

something here she had not yet done. She searched the room, but of magic items found only a small bag of green pills. Princess Charlene examined one of these more closely, and found that upon one side was a small two character rune. She ate the mystic tablet; it made her feel wonderful; it made her feel like <the rest of this paragraph has been censored!! Green M&M's are not permitted in a family publication! —The Royal Censor>

A familiar wave of nausea overcame Princess Charlene, and she barely had time to fix her hair and make-up before she was dropped back into her familiar forest. At least, she mused, the day hadn't been a total loss, for she was no longer hungry. She had eaten all the green pills.

WIN! \$5.00 prize to victor. Deposit YOUR urine in the Blacker House barbecue grill. Longest time wins. Have a friend time you, leave name (and time in Ricketts Officer's mailbox.

Guggenheim Fellowships Awarded to Faculty

Four members of the faculty here at Caltech are among 288 scholars, scientists, and artists chosen to receive the 1981 Guggenheim Fellowship Awards from the John Simon Guggenheim Memorial Foundation. They are John A. Ferejohn, professor of political science; Daniel J. Kevles, professor of history, and Charles R. Plott, professor of economics, all of the Division of the Humanities and Social Sciences; and Bengt Fornberg, associate professor of applied mathematics.

The recipients of this year's awards were selected from among 3017 applicants on the basis of demonstrated accomplishment and promise for the future. In all, 102 institutions are represented by one or more fellows. The awards totalled \$5,099,000.

At Caltech Ferejohn's award will go toward continuing his comparative studies of legislators and their constituencies. Fornberg's research is on computational methods in fluid mechanics. Kevles is completing work on a history of eugenics and human genetics in the United States and Britain from the 1890s to the present; and Plott is developing experimental methods in political economy research.

This is the foundation's 57th annual competition, during which it has granted some \$90 million in fellowships. The committee of selection consists of seven professors at major universities in the United States (Stanford, Amherst, Rockefeller, Illinois, Columbia, UC Berkeley.)

RA's Discuss Local Drug Abuse

By Kenneth L. Campos

Recently there was a meeting of the Caltech R.A.s with a local doctor to discuss drug abuse on campus and related issues of drug safety. The doctor was Robert Lynch M.D. of St. Luke's Hospital emergency room here in Pasadena. He was an undergraduate at UCLA and a medical student at USC. This meeting was held at the Caltech Health Center with Lynnette Wilmoth, R.N. as hostess. John Penido, a paramedic and personal friend of Dr. Lynch was also present to aid in the discussion.

In college there are a variety of reasons for drug use and situations for chemical accidents. The psychological motivations arise from competition, both academic and social, and depression. Chemical accidents form another class of situations considered. Medical conditions where a student is taking prescription drugs (or not taking them) is another area of concern and needed awareness. Finally there was the category of recreational drug use among the students discussed; this is perhaps the most important issue of concern for the R.A.s and the students which was addressed at the meeting.

At Caltech a student can be under very much stress. How people deal with this is as varied as the personalities at Caltech. For some escape through drug use becomes the answer. When the personal problems become too great and the student loses his clear perception of the circumstances and his ability to seek help in talking meaningfully with others then suicidal thoughts may arise. Some particular examples of abuses and treatments were brought up.

For ingested poisons barbiturate overdose was mentioned first. It should be noted here that overdose need not be a deliberate suicide attempt but could be accidental or the result of an unexpected drug interaction. For the student found unconscious one should immediately check the basic ABC's, Airway obstruction, Breathing—resuscitate if necessary, and Circulation—chest compressions are used when there is no circulation. If the student is conscious and able to swallow then one may induce vomiting with ipecac or some other means. Ipecac is a liquid available at the pharmacy for use in emergency poisoning cases.

An overdose of aspirin, say 30 tablets taken at once, results in blood acidosis and the cessation of some metabolic pathways. Death can result. Again, if the victim is found awake, then induce vomiting and give milk which is a good general demulcent. If the student is unconscious and overdose is suspected attempt to

rouse him and call for help. There are circumstances in which ipecac is not recommended and these include poisoning by caustic agents or petroleum based substances. Here one may give milk and perhaps charcoal. Activated charcoal for use in cases of poisoning is also sold in pharmacies. One should contact the CIT Health Center at x6393 and the L.A. Poison Control Center at 484-5151.

Concerning laboratory related chemical accidents one should be familiar with the location of showers, eye washes, fire extinguishers and such items. The experimenter should be aware of the possible hazards of particular substances he may be using and know the appropriate precautions to employ. Extensive washing with running water (20-30 minutes) is advised for cases of chemical burns, especially for caustic agents in the eyes.

Students with particular medical conditions such as epilepsy or diabetes should at least let the R.A.s know about this and perhaps also tell a close friend. Sometimes an epileptic may neglect to take his medication and have a seizure. Generally a fit is of fairly short duration. Those nearby should not attempt to unduly restrain the person. At best one may attempt to protect the head from injury by placing a pillow underneath it, and never put any hard objects into an epileptic's mouth during a fit as this could cause more damage than good. For diabetics one may see a person in shock due to too little or too much insulin. In an extreme case the diabetic may appear "drugged" and losing consciousness. In such circumstances the diabetic is in need of medical attention. One should contact the Health Center, paramedics, or the local hospital.

On the issue of recreational drug use there are several points to consider. The student may have a variety of rationalizations for his behavior and the best way to expose these is to talk with someone else about drug use. Teachers are clever and can rationalize almost anything. Next the issue of volition is important—Who is in control of the situation? Is it the drug or is it the student? Different people have various ideas about recreational drug use. For some it is commonplace and for others it is unthinkable, and this applies not only to Teachers but to the society at large. The most insidious aspect of drug use is chronic drug use and the biased perception of reality which it confers to the user. At one point pure recreation gives way to physiological and/or psychological addiction. There are several people to turn to in

such cases: alcoholics anonymous, the R.A.s, the Health Center psychologists (who are available for a variety of needs not necessarily drug related at all), peer counselor, etc. It becomes necessary to call for help when the student who is using some drug or drugs gets to be disruptive or dangerous to himself and others. It is also needed in cases when the student becomes unconscious. These cases should be referred to the Health Center.

Alcohol is perhaps the most prevalent drug in use in America today. Caltech is not exceptional in its alcohol use. It is very socially acceptable by many people. Besides, drinking beer with your friends is fun, wine with dinner is elegant, and the occasional drink can be pleasant. Alcohol gets to be a problem when the student becomes a chronic drinker or finds himself getting drunk too often without planning it. It is true that chronic and excessive alcohol use results in serious physiological damage. It affects many parts of the body including the brain, the nerves, heart, kidneys, pancreas, liver and the G.I. tract. It is very widespread and deleterious in its influence. The life expectancy of alcoholics is less than the population at large; additionally their suicide rate is higher.

Speed and the amphetamines may help to keep a student awake during an exam, but the reduction in clarity of thought is hardly worth it. There is also a rebound after the effect of the drug wears off and the student may feel particularly dispondent and unmotivated. This is something that can only get in the way of keeping up with life at Caltech. Chronic use of speed leads to a kind of psychosis and delusional thinking, additionally the drug will no longer have its familiar effect—the user may become fatigued. Cocaine is similar in its stimulant effects. It is a very good anesthetic and the user will literally feel no pain. Chronic use has major drawbacks such as a biased perception of circumstances and social interactions. One may also suffer damage to the mucous membranes of the nose.

PCP or phencyclidine is an animal anesthetic which some people use for recreation. Its effects in humans are very unpredictable. The user may appear "crazy" and do some dangerous things without being fully aware of his acts. The user may act very strong due to excessive adrenalin and the anesthetic effect; he may be dangerous and capricious. One should definitely get help from paramedics or a hospital when the PCP user is out of control.

Lastly, we consider the hallucinogens. These include L.S.D., naturally occurring

psychedelic drugs such as psilocybin and mescaline, and a variety of other synthetic drugs. Unfortunately, little is known with much certainty concerning these drugs with respect to their physiological effects during long term use. One definite effect of hallucinogens is the inhibition of the neurohormone, serotonin. The result of this is a great increase in the time for habituation to stimuli to occur. Thus thoughts and things may continually seem like new. On the negative side some people may experience unwanted "flashbacks" in which their state of consciousness uncontrollably returns to the drug induced state of mind. It is uncertain who will be susceptible to flashbacks and who will not.

In the final words of a general discussion among the R.A.s themselves it was stated that perhaps the most urgent idea to convey was that a particular student who has carefully researched the chemical structure, the lethal dose, and any known physiological effects, etc., should allow himself to entertain the thought that in fact there may be some little unknown effect or interaction about which he knows nothing. It is this small margin of uncertainty that should cause the student to pause and consider his actions.

NO
genheim
BRAIN to

(CNB)—Most animals, including man, are born with immature brains in which many nerve cells are "wired" only crudely and thus capable of being "programmed" by individual experience during the early maturation. This particular type of plasticity is quickly lost, however, and the adult brain is almost incapable of such self-organization. Learning spoken language may be a good example of this unique feature of the young brain.

Studies of mechanisms of brain plasticity by Caltech senior research fellow Takuji Kasamatsu have raised the intriguing possibility that the adult brain may be returned to the plastic state by appropriate drug treatments.

Dr. Kasamatsu's studies have centered on the visual system of kittens and cats. His experiments have focused on the role of norepinephrine, a common brain chemical, in controlling brain plasticity. In kittens, as in other higher mammals, nerve cell connections needed for depth perception, or stereoscopic vision, become stabilized during the first few months after birth. If one eye of a kitten is held closed during this critical period, the animal does not develop stereovision, as it becomes imprinted with this abnormal visual experience. This state can be determined by measuring electrical signals produced by the individual nerve cells in the visual center of the animal's brain.

In experiments reported in 1978, Dr. Kasamatsu and associate professor of biology John D. Pettigrew studied two groups of animals that should not have been susceptible to such alteration of visual experiences—adult cats, and kittens whose brains had been depleted of norepinephrine by drugs. The scientists surgically covered the eyelid of one eye in each of these two groups of animals, but also injected norepinephrine into one of the paired visual centers of each animal. The other, uninjected side served as an internal control. They discovered that only the treated side of the visual center in these animals' brains was affected by the abnormal one-eye experience—they had lost normal binocular nerve cells in the visual center. Thus, norepinephrine had rendered their brains plastic once more.

In his latest studies, being reported in several upcoming journals and scientific meetings, Dr. Kasamatsu has discovered still more about the mechanism of plasticity. Norepinephrine is a neurotransmitter, a substance that carries chemical messages throughout the brain. When this messenger is released from a cell, it is known to "plug in" to specific target receptors in the brain known as beta-adrenergic receptors. Dr. Kasamatsu discovered that these receptors on the surface of brain cells were, indeed, part of the control system for plasticity, for he was able to wipe out plasticity in kittens by using drugs that blocked the function of these receptors.

It has been known that when beta-adrenergic receptors are stimulated with norepinephrine, they result in an increase in chemical "workhorses" called cyclic nucleotides in the cell. Dr. Kasamatsu has also further traced the cascade of events in chemical control of plasticity by studying the effects of these cyclic nucleotides. Again using kittens as test animals, he has now shown that an increase in cyclic nucleotide seems to be a key step in enhancing plasticity.

First he treated corresponding regions on both sides of the kittens' visual centers with a drug that eliminated plasticity. Then he closed one eye of each of the animals, injecting the left region of visual centers with a cyclic nucleotide and the right region with a control solution. Recordings of electrical activity from the visual centers showed that only the nucleotide-treated region had been altered by the abnormal visual experience—that is, brain plasticity had returned only to the cyclic nucleotide-rich region of the visual centers. Cyclic nucleotide treatment has also produced similar results in adult brains, which are supposedly no longer sensitive to alterations due to visual experience.

"We are continuing our studies of this highly promising system," said Dr. Kasamatsu. "We believe that our research will not only provide valuable insights into how the brain organizes itself during the maturation of individuals, but also lead us to possible new treatments for sensory rehabilitation in aged or injured brains."

Dr. Kasamatsu's work is sponsored by the National Institute of Health.

SSO Has Committee

By John Whitehead

The Student Space Organization now has an advisory committee consisting of the following faculty: Chris Brennen (ME), Roy Gould (Chairman, E&AS), Ed Posner (EE), Brad Sturtevant (Aero), and Dave Welch (ME). Kirk Haselton, the project manager, keeps them up to date on our progress. This means that the SSO is fully recognized by the Institute, so the Development Office is now able to assist in soliciting project financial support from corporations.

The SSO recently met with Electro-Optical Systems, a Pasadena subsidiary of Xerox Corporation that made a contribution second term. Their president and others were eager to hear details about the SSO and they said they viewed their contribution as furthering education, science, and increasing the potential of possible future employees.

Arrangements are now being made for the Launch Agreement with NASA. The SSO is planning to buy a payload near the top of the launch list from another Small Self-Contained Payload user who no longer wants his. This move should give the SSO a choice of one of the early launch dates.

Work on the experiments is going ahead. The addition of histology to the seedling experiment could lead to the elucidation of the gravity-perceiving mechanism in plants. Payload design is also proceeding smoothly. Alan Dellamore received a SURF to work on the mechanical design this summer.

The SSO plans to accomplish a great deal of work this summer. Six students will be employed to work on the following projects: long term funding commitments, development of the experiments, payload temperature control, and payload numerical control. Most of these projects will include prototype construction and some work on actual flight hardware.

As usual, the SSO welcomes new members interested in any aspect of the project. Meetings are Thursdays at 5:15 pm in 210 Thomas.

Billie und Ich

Rats. It is my turn to write but I do not have anything planned out. Maybe I will just flick it in since Ich and I are totally free lance. On the other hand Ich probably will not respect me in the morning if I did that, not that he has ever really respected me.

From my recent visits to the nearby bike dealers, I have become aware of some really intense competition between two newcomers to the U.S. bike market. The two brands are the "SR" and the "Univega". These two seem to be concentrating their efforts in this area of the U.S. "Miyata" seems to be trying for

an overall U.S. market like that of what "Fuji" accomplished a few years ago. A recent addition to the race is the "Bridgeston" which claims to be the largest bike manufacturer in Japan. Actually, their claim is a little misleading since the leading U.S. bike manufacturer is "Huffy" and they are not known for high quality bikes. They just make a lot of them.

As far as I can compare, the "SR" and the "Univega" are very similar in character such that they both "look nice" to most people. They both stress components before the frame. On the other hand the "Miyata" stresses the quality of

the frame before the components. So far, their Model 710 is the least expensive bike built with a double-butted chrome molybdenum tubing (\$350 range).

Although it is a week after the official mid-term exam week, you should take a mid-term in biking. As a measure of how badly out of shape you are, take a timed trip out to JPL this week. You can avoid a lot of the traffic if you take Wilson across the freeway and then go over to Holliston. Going up Holliston to New York is a steady climb so be sure to shift down and concentrate on maintaining your pace. Once on New York, go west until it ends, go south one block to Woodbury to go farther west. Staying on this road, you will soon go thru an underpass and then go by a dry reservoir. Soon the road will bend north to go by a frisbee golf course

and finally end up at JPL. Here, turn around and take the road back without turning off for New York and you will find yourself at Lake Ave. If you are perfectly confident about your bike and yourself, the fast way is to go down Lake and turning off before the freeway to avoid traffic. On the other hand, if you do not like the idea of going 30+ mph, continue on Woodbury to Mar Vista or Catalina and take it down to Washington where you can switch over to either Wilson or Holliston. Note that on coming downhill, anticipate your braking and be careful of pedestrians.

Now for grading yourself. Give yourself an "A" if this took you less than 45 minutes. My low is about 40. A "B" if around an hour and so on. Please note that I am assuming that you obey all of the traffic lights and signs.

Good luck.

-Billie

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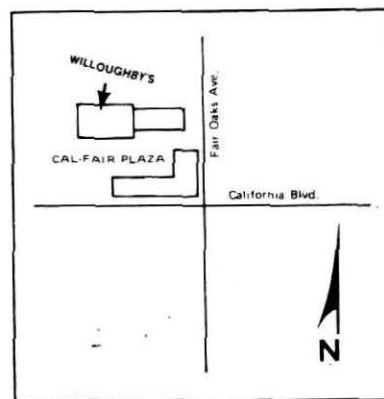
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WOMEN'S SOCCER TEAM WINS

By John

On Sunday the Caltech Women's Soccer Team made it to double figures for the first time in their history by defeating the Shakers, 10-1. This extends the Beavers' winning streak to four games. With an offense that can score ten goals in one game and a defense that has allowed only one in four games, the team is destined to come out at the top of their division this term. *Now is the time, fair weather fans: come watch a winning team!*

In their last meeting, the Beavers and the Shakers each scored a single goal. The Caltech team has been steadily improving throughout the season, though, and this week was ready to avenge last term's tie. The fourteen women who managed to squeeze a soccer game into their busy midterm-

weekend schedules did a respectable job of not playing down to their opponents' level, especially considering that the game was wrapped up early in the first half.

Perhaps, in the interest of excitement for the fans, Caltech should have been more considerate to the Shaker goalie, who reportedly was a softball player who had never been in goal before. Nevertheless, center forward Alison Blake was given numerous opportunities to score and came up with an impressive 6 goals to her name. The other forwards all earned spots on the scorecard: Julie Kornfield with two goals, and Sue Hunts and Sharron Sarchet with one each. Although the forwards were the only players who put the ball into the net, they don't deserve all of the offensive glory. Hustling as halfbacks were Cathy Allen, Sue Fuhs, and Kelley Scott. These orange-and-white players ran circles around the Shakers' midfielders and fed the ball up to the forwards for their frequent fast breaks.

Beavers End Losing

By P. G. Hephzibah

The Caltech Beavers ended their 1981 baseball season on a dismal note, losing their last five games. Caltech looked like the hapless Beavers in losing a three game series to Redlands by scores of 15-1, 19-3, and 16-2. Pitcher Doug MacKenzie was the victim in the first and third games and Steve Haustad received no mercy in the second game as the Redlands batters decided to beef up their hitting statistics. The Beavers did get a few hits

in return, though. Doug Shors had several hits as did Howard Kong. Kong, Shors and Steve Jones were responsible for the runs produced by Tech.

After a disheartening series against Redlands, the Beavers had to close out the season against none other than La Verne, who besides being the best team in the conference, is also ranked nationally. In perhaps the best pitching performance of the year, Alphonse Sterling, employing

the services of a blazing fastball, tamed the Leopards, allowing only six hits. But Brad Evans got the only hit for Caltech, as La Verne won 4-0.

In the second game Caltech did a much better job of hitting, but so did La Verne, as they defeated the Techers by a score of 10-1. All was not lost however as Bobby Buck slammed his second home run of the year. The Beavers, who finished the year with a 2-25 record will only lose one of their nine starters to graduation—so wait till next year.

And The Winner Is...

[Long drumroll] Jens Jensen, the 1981 recipient of the Haren Lee Fisher Award in Junior Physics. Congratulations, Jens Jensen.



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Y Bother Sailing

By David Carlan

What's become of the vaunted Caltech sailing team? With such quality sailors as Paul Gazis, Gary Bodie, and more recently Greg Hoffman forming the somewhat brief history of the modern sailing team, is this to be its epitaph? In the opinion of Mark Maier, current sailing team captain, this is not necessarily a postscript on the team, but merely a matter of regrouping.

Sailing, as a varsity sport, gives Techers a chance to compete with such local schools as USC and UCLA on an equal footing, in monthly (or twice-monthly) regattas. These regattas have traditionally been held in Dana Point, Newport Beach, Long Beach, in inland lakes and further up the coast. This is in addition to enjoying the sun, the wind—the actual sailing experience.

Last school year, with the help of administration, faculty, and ASCIT efforts, a new sailboat (a 13-foot Flying Junior, named *Shadowfax*) was purchased. Additionally, the start of this past school year saw a promising group of in-

terested sailors. So, then, what happened?

Again, according to Mark, it seemed to be a problem of logistics, to wit, the lack of transportation and bad timing, which conspired to keep the team aground. Further compounding these difficulties, recent rules made by the Intercollegiate Sailing Association required a complete standardization of the sailboats being used (in some cases, this may require purchase of a new boat!).

What are the prospects for future sailing activities? Mark remains steadfastly optimistic—The recent rules can 'hopefully' be finagled around, transportation troubles require a car or two now in the shop to be brought back to life (plus trailer hitches installed). For those who have a greater sailing interest than the Saturday morning P.E. class affords...The sailing team may be back in the water next school year. If you have any suggestions, look up Mark Maier, in Ruddock House.

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Wanna Counsel Peers?
 Applications for Peer Counselor positions in the 1981-1982 academic year are available in the office of the Master of Student Houses. Deadline for submission of applications is 5 pm, May 11, 1981. Please submit applications and direct any inquiries concerning the program to: Dr. L. Bruce Kahl, Caltech Health Center, Mail code 1-8, phone x6393.

Lezgo beach!
 There will be a beach party for undergrads at Sunney Chan's house near Capistrano Beach on Monday, May 25th (Memorial Day Holiday). A barbecue is planned. Transportation will be provided. There are sign-up sheets posted in the student houses. The buses will leave around 11:00 am and return to Caltech by 6:00 pm.

Save Mono Lake
 At 7:30 PM on Monday, May 11, a representative of The Friends of Mono Lake, Tom Cassidy, will show slides depicting the unique natural history of Mono Lake and the efforts to preserve the lake from ecological destruction. This topic is especially relevant to us because the major threat to the lake is the diversion of its inflow to Southern California. After the presentation there will be an opportunity for people to ask Tom questions about Mono Lake and other environmental issues. Refreshments will be served following the program, which will be held in the upstairs Winnett Club Room 1. This event is being sponsored by the newly revitalized Caltech Environmental Action Committee. For further information call Mike Manson at 356-6479 or 356-6838.

GSU Meeting
 There will be a meeting of the Caltech Gay Student's Union, Friday, May 8, at 9:30 pm.

Lloyd House XXXtravaganza
 The annual Lloyd House Spring XXXtravaganza is on the way! It's Saturday, May 9th at 7:00 pm and 10:00 pm. Don't miss a wild night of fun, booze, and women!

Bloodbath Cancelled
 We regret(?) to announce that there will *not* be a Caltech Y Evening Spotlight entitled "Frontier Guerrilla Warfare: The Positive Aspects of Feuding in Afghanistan and Pakistan" next Wednesday night. It has been cancelled due to scheduling difficulties, and no future date is known at this time.

Jay Willis In Baxter
 In conjunction with the current "Anti-Static" exhibition, artist Jay Willis will discuss his work with the public in the gallery at noon on May 12. Willis currently has a metal sculpture on view, recently having shown a popular work, "Both Ends," an illusionistic piece with candles and mirrors that fooled the viewer's eye.

Formal At The Ath
 Sign-up sheets for the Ath Formal have been posted in the student houses. They will be taken down on May 15th. The band is Hi Fi and will be playing from 8 to 12 pm. Dinner starts at 7 and will be duck. Cost is \$26 and is due to your house social team by Monday, May 25th. Hope to see you there on May 22nd.

Dance Class
 The Cal-Tech Modern Dance and Body Movement classes have recently been enhanced by the addition of live piano accompaniment by Sandra Loh. Sandra was recommended to dance instructor Liz Oberstein by Carmen Largo, Assistant of Student Affairs. Sandra is being sponsored through Work-Study funds. Come in and listen to her while you watch or participate!! Classes meet Tuesday/Thursday afternoon, 4-5 and 5-6:30 in Dabney Lounge.

More Dance Class
 A summer Modern Dance Workshop is now being formed. If interested, please call the Cal-Tech Athletic Dept., X6146 and leave your name and phone number, before May 29. Classes will start the second week in June.

Blacker Grill: Your days are numbered. You have fouled the air in my room for the last time.

Women's Soccer Team Plays Well

from ten

The defense played what was of late become their usual solid game. The lone goal was somewhat of a fluke. Midway through the first half, a strong foot by a Shaker sent the ball bouncing into the Caltech end, above and beyond everyone but our famous goalie. Ms. Rosenthal, in an altered state of mind because her team was already ahead 5-0, misjudged the ball and watched it bounce by her into the goal. Apparently Ann felt guilty about tarnishing the defense's record of four flawless games, for minutes later she came up with an impressive save on a shot taken from five feet out. The Beaverettes responsible for making our goalie's job easy

were Lorna Anderson, Thelma Nuñez, Norma Ofsthun, Wendy Rasmussen, and Sue VandeWoude. Sports columnist Sandra Loh describes these women's efforts as "steely studliness," a term heretofore used only in reference to volleyball play. There is no need to clamor at the doors of the team coaches (Bryan Dunkeld, David Marvit, and John McNally) for inside information about our team schedule. Here it is: Sunday, May 10th, 3:00 pm, at the field in front of the Rose Bowl. Bert says to mention that Brooke Shields will be playing for Caltech and will auction off her shorts after the game. See you there!

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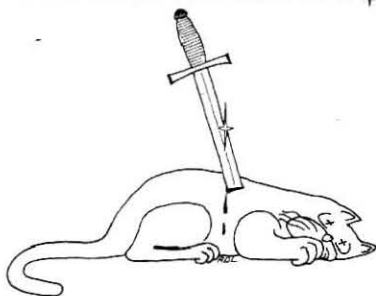
FROM ONE
mittedly, according to Dean Wales, there was too much reliance on word of mouth to spread the news of the weekend.

Everyone agrees on one thing, summed up by Dean Wales, "to see [that] the [prefrosh] girls have a good time and have someone to look after them."

But not everyone agrees on the means of accomplishing this. Crandall felt she "didn't want to coerce anybody into being a hostess" and thus thought two news briefs in *The California Tech* would be enough to attract attention. [Yes, we did run them—see for yourself, buried in the January 23rd issue, page 12, and the April 3rd issue, page 7. Please note that *neither* news brief asked for volunteer hostesses, but merely asked for help in

Forged by a God...
Foretold by a Wizard...
Wielded by a King...
Used on a Cat...

EXCATIBUR



planning the weekend. We can't print what we don't receive.] Two Dabney House women were interested, but they did not see the notices in the *Tech*, nor did they hear of the weekend from other houses. In fact, one called Crandall on Thursday to see about getting a prefrosh. Crandall now thinks an article might have been more effective and probably would be done next year.

Crandall also asserted that she had the InterHouse Committee discuss the weekend. Dave Younge, chairman of the IHC, recalls two meetings during his reign in which the weekend was brought up—both dealing with rotation rules' applicability and house social events conflicting with the weekend. The prefrosh and their hostesses were never discussed. And, in fact, Wales and Wood, along with Skelton, agree that next year, letters should be sent to all on-campus undergrad women to avoid the confusion encountered this year.

Will this advice be heeded? The question is irrelevant if

one considers that the people hurt the most are not the house members, administration, or RA's, but unfortunately, those who will decide whether or not they will attend school here the following year.

KELROF

FROM THREE

People who are interested in running should sign up as soon as possible either in the locker room at the gym, or in the Page House Mail Room. Many timers will also be needed, so if you enjoy watching pain, you can sign up for a 4-hour timing shift. Any suggestions, or questions about forming teams or the event in general, should be directed to Eric Korevaar (Relay Organizer) or Shawn Larsen (Head Timer) in Page House, x6181.

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