

Old Editors
Never Die

The CALIFORNIA Tech

They Just Move
to Altadena

Volume LXXV

Pasadena, California, Friday, January 18, 1974

Number 13

Chop Off Your Philanges; Join The Student Shop

by Kutcha Fingerzoff

Have you ever needed a screwdriver at 4 a.m.? Wanted to build a set of speaker cabinets? Wanted to learn a little about metal working? If you have, then join the student shop!

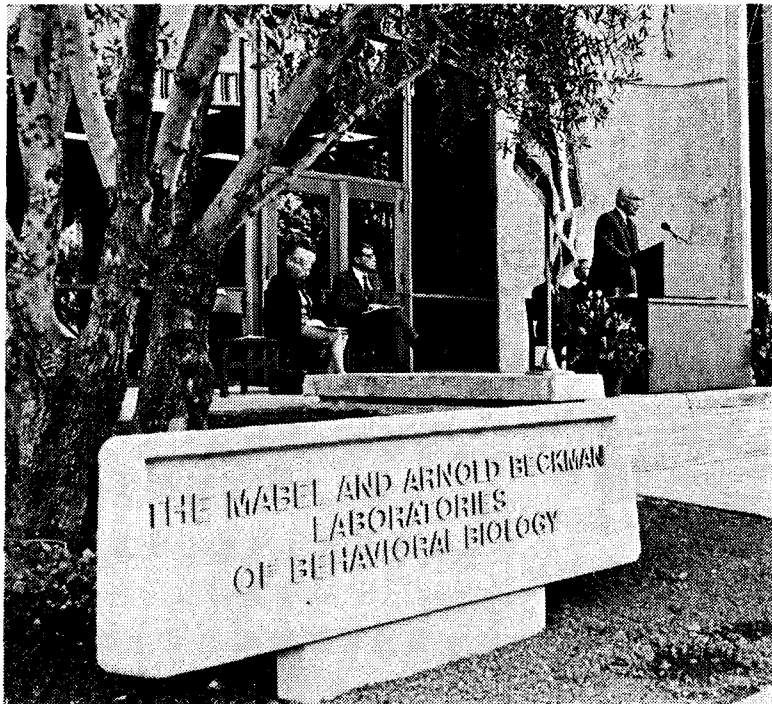
The student shop is an organization devoted to such activities. It has a selection of wood and metal working tools of both the hand and power varieties. The tools are available in the shop and most may be borrowed for use outside the shop.

Absolutely no previous experience is necessary to join the student shop. The only requirements for membership are payment of the shop dues (\$5, plus \$5 deposit) and attendance at a check-in meeting. At this meeting, the rudiments of the operation of the equipment will be discussed, with special emphasis on operator safety and prevention of damage to the equipment. The next such meeting will be Saturday, January 19 at 1 p.m. for those who are interested. Come to the shop, in the basement of Winnett next to the game room, at this time if you want to become a member.

The student shop does not conduct classes in the use of the equipment. It does, however provide access to a group of people who are interested; someone can always be found to explain the operation of any tool. If you are interested in using a metal lathe, for example, a shop committeeman would direct you to someone who knew how if he himself did not. This access to people who know what they are doing is one of the most useful features of the shop, and enables you to do as much or as little learning as you desire.

If you are at all interested in joining the shop, come to the

Continued on Page Four



ARNOLD O. BECKMAN speaks at the dedication of the Beckman Behavioral Biology Building. More photos on page seven. Photo by Dave Peisner

Behavioral Bio Building

Baxter-Prime Gets Late Erection

The big, beautiful, Beckman Behavioral Biology Building was dedicated this Monday. It's designed to accelerate Caltech's expanding research in the biology of animal and human behavior.

The structure was made possible by a gift from Dr. and Mrs. Arnold O. Beckman, (not related to Peter W., so far as we know).

The building is of contemporary design and consists of a basement and three floors above ground. It comprises a total of 75,321 square feet of floor space.

"We believe that behavioral biology will be a field of the greatest importance in fundamental science during the next decades," declared Dr. Robert Sinsheimer, chairman of Caltech's Biology Division. "In this age of stress, we must look within ourselves for greater understanding of why we behave as we do." This was quite probably a redundancy of some sort.

People receiving offices in the

building were pleased to note that the walls met at approximately ninety degree angles, rather than merely approaching within an order of magnitude as in Baxter.

The Court of Man

The handsome new building completes the Court of Man. As soon as the grass and plants start growing again, it may even look nice (not that it doesn't look pretty good now).

The behavioral biology laboratories will provide research and teaching accommodations for about 80 persons, including faculty members, postdoctoral fellows, research associates, graduate students, laboratory technicians, and lots of dead frogs.

In small teams the scientists and their students will study perception, developmental psychology, comparative psychology and ethology, claustrophobia, neuroanatomy, neurophysiology, neurochemistry, psychopharmacology, physio-

Master of RF Talks to Techers

by Slippery Smik

"I have a deep respect for the office of the presidency. I just don't have much respect for the present officeholder."

Dick Tuck opened his lecture Wednesday evening in Ramo with that statement, speaking to a capacity audience of nearly 500 enthusiastic Techers and Pasadenaans. The lecture was part of the Y's Life Beyond Science series.

Tuck opened with customary lecture-type quips, mostly dealing with Nixon. He then proceeded

to relate more or less chronologically, his encounters with Nixon through the years. Tuck, a Democrat, also talked about his various activities in Democratic presidential campaigns.

In 1960, Tuck volunteered to the Kennedy organization to follow Nixon about and supply reports on the Vice-President's campaign. Kennedy told Tuck, "I'm glad you're following Nixon around and not me!" Tuck also suggested some "irreverencies" to the McGovern campaign in 1972, but they were rejected by the candidate's staff.

Tuck "declared inoperative" one of the most popular stories currently circulating about him. This tale concerns the time he allegedly managed to get the train from which Nixon was giving a whistlestop speech to leave in the middle of the speech.

In a subsequent question-answer period, Tuck told another story about Pat Brown and \$20K. It seems that Tuck was to play delivery boy for a San Diego businessman's contribution to the Brown gubernatorial campaign. Of course, complications set in, and Tuck ended up flying all over California with side trips to Mexico. The money wasn't even used until after the campaign was over.

Tuck received a large and enthusiastic response at all the activities Wednesday. Techers obviously know a master of the RF when they see one.

logical physiology, psychological psychology, and lots of other stuff.

Nine research units will include faculty offices and laboratories, data-preparation and storage rooms in which computer consoles can be linked with Caltech's central computing semi-system, laboratories adaptable to biochemical and biophysical needs, and space for electrophysiological studies.

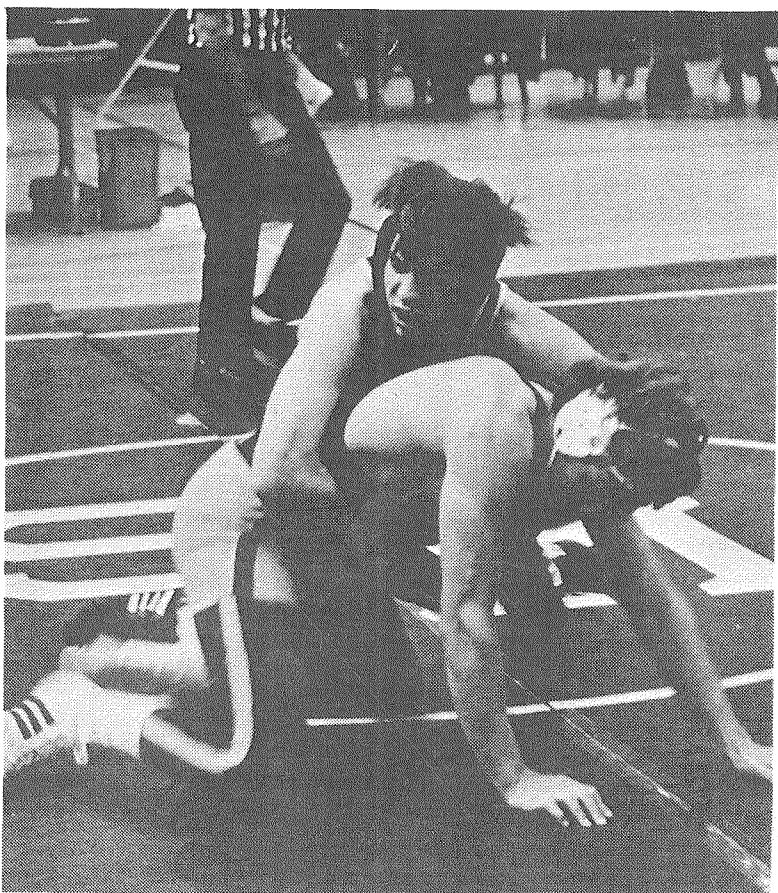
I Can't Believe It

It is especially appropriate that Caltech expand its research in behavioral biology because Institute chemists have been complaining about a squeeze on available space for years.

It was Dr. Roger Sperry, the Hixon Professor of Psycho-

Continued on Page Five

Rise The Demon



VINCE FRATELLO, famed Caltech wrestler (pictured half-dead above), struggles desperately in an effort to defeat his foe. Story on eight. Photo by Feeny

News Briefs

Gang Takes Over O/C Housing

Property management for Caltech-owned residence and apartment properties available for rental primarily to students is now assigned to Mr. R. W. Gang, Manager, Residence and Dining Halls. In addition, the "housing index" has been relocated to the Residence and Dining Halls Office (Bldg. 56, south end).

Mr. Gang will be assisted by Mrs. Betty Ursua in student rentals, including cooperative houses, student apartments, the women's off-campus house, and the housing index and referral service, which is used by faculty and staff as well as students. These changes will consolidate student housing activity, provide a more central location for the housing index, and balance administrative workloads.

Mr. Kermit A. Jacobson,

Assistant Treasurer, will continue his responsibility for residence rental properties primarily of interest to faculty and other non-students, for Caltech's non-residential properties, and other special investment holdings.

Transcendental Meditation

The Students' International Meditation Society will have its second meeting on Tuesday, January 22, in 212 Mudd at noon. All Caltech students and faculty members practicing Transcendental Meditation are welcome. For further information contact Gary Bedrosian at 796-9746.

Humanities Seminar

Tuesday, January 22, in 25

Baxter at 4 p.m. "Political-Scientific Controversies in the Soviet Union: Lysenko, Pauling, and Sakharov." Irving S. Bengelsdorf, Lecturer and Director of Science Communication, Caltech.

Come Trump Your Aces

There will be a duplicate bridge tournament Saturday at 7:30 p.m. in Winnett. No experience necessary.

BOD To Meet Finally (Maybe)

Today at 4:00 p.m., the BOD will get its winter season under way by discussing many interesting things. The meeting will be in Winnett Center, unless nobody shows up, in which case it might as well be in Upper Seven. No experience necessary.

Editorial

More Security

A high incidence of crime continues at Caltech despite the fact that it has been going on long enough to alert all personnel to the problem, and presumably they are being more careful. We are not talking about isolated thefts of small items, but of repeated thefts of costly Institute equipment, thefts of students' property such as bicycles, and physical assaults.

Apparently it has become known to criminals in the area that Caltech is an easy place to hit. Much of the campus is left open late, Techers tend not to lock their doors, strangers are rarely challenged, and, most importantly, we do not have a really effective security force.

This is not meant to imply in any way that the individual officers are not performing well. This is certainly not the case. The point is that there are not enough of them to do the job effectively. Three persons, no matter how well trained, cannot be expected to adequately guard this large an area with this many buildings. Five officers per shift would seem to be the minimum force necessary to patrol the campus.

Another approach is to hire students to do the routine locking and unlocking of doors (Techers have proven good at this) and turning on and off of lights, which are big time sinks for Security now. This would at least leave the three existing officers free to cover the grounds more thoroughly.

The key to any of these suggestions is money. The Institute has been trying to save money on its security force (note the change to contract security because it is cheaper). Security is an idiot place to save money, since an undermanned security force costs more in the long run due to theft, property damage, and even human injury. It is time that our force be increased to meet the needs of the campus.

—Eric H. Eichorn
Gavin D. Claypool
Dennis L. Mallonee

Throop Beat

Beckmans, Chandler, & Rape

by E. Squirrel Mole

A rape attempt against a woman on the Caltech campus this week has shown us once again that the real world comes to Tech every now and then. A female member of the Caltech community, who was not further identified, reports being asked for assistance by a man claiming to be a T.A., requiring her to enter a room with him. The pretext was that a drawer was stuck, and after entering the room the victim was attacked.

While the details of the case are being withheld pending investigation by the Pasadena police, Security Manager Lee Chapman disclosed that the attempted rape took place on campus, in the daytime. The physical description of the would-be rapist and the nature of the attack were similar to those in a case being investigated by the San Dimas sheriffs.

Composite drawings from descriptions made by witnesses (victims) in the Caltech and San Dimas cases are reproduced elsewhere on the page. The attacker is said to be 5-5, slender, with a somewhat dark complexion. While the two drawings are not exactly alike, they could easily be what two frightened witnesses would remember after seeing the same person. Anyone who thinks he

has seen one of the individuals pictured is asked to contact Security.

Chandler Eats It

R&R Food Service (no, we still don't know what R&R stands for) has announced that the hours of operation of Chandler (the Greasy) have been cut to 11-1 on Saturday, and that it will be closed all day Sunday. The change was described by Chef Wayne Morrow as being necessitated by a "lack of participation" by the students.

It's like this: Techers don't eat at the Greasy. Staff business keeps the place running Monday through Friday, and Saturday School children eat there Saturday around noon. Were it not for the Saturday students, it would be closed all weekend. R&R is losing gobs of money, and they are especially not getting lots of business from Techers.

It might well be asked how a food service with a building and equipment provided for it, and with no competition from anyone else on campus, can get so little business. The answer can only lie in the way the place is run. Techers will walk to nearby establishments, drive as far as Los Angeles, or trundle food home from grocery stores and cook for themselves in preference to eating at Chandler. This says

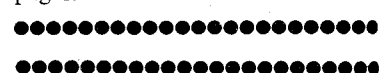
something about the food, service, and prices.

The Student Housing Committee will be holding an open meeting with testimony from students encouraged at 3 p.m. today in Millikan Board Room. The meeting will be instrumental in determining the future of food service on campus (see the story on page one of last week's Tech).

Mabel and Arnold Dedicated

The Mabel and Arnold Beckman Laboratory of Behavioral Biology was dedicated Monday in a ceremony involving Harold Brown, the mayor of Pasadena, the Board of Trustees, and many of the Institute Associates (read: Contributors). The building, under construction for a seeming eternity, is now ready for occupation.

The Court of Man being completed by Beckman II (or Baxter-prime, or whatever), the Institute kicked off a \$130M fund-raising campaign (the point of which is that the Institute needs money to continue its academic excellence) by giving the Trustees, Associates, and other people with lots of money a reception and dinner at the Beverly Wilshire Hotel, complete with a performance by the Caltech Glee Club which is not reviewed on the entertainment pages.



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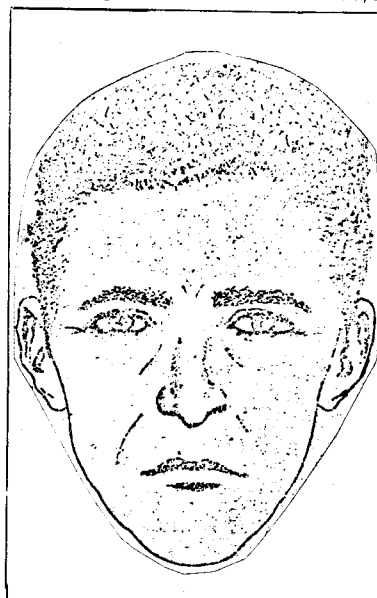
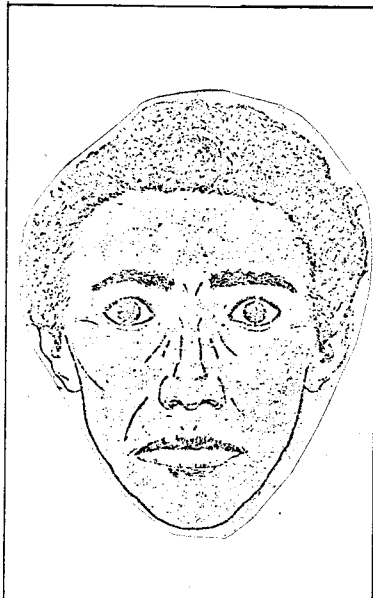
Staff David Callaway, Tim Groat, Patti Horne, Melody Howe, Karl Kuhlmann, Phil Massey, Ryn Miake, Mary Beth Ogilvie, Dick O'Malley, Alan Silverstein, Nick Smith, I.M. Wett, Howard Zebker.

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COMPOSITE DRAWINGS of possible assailant in attempted rape. If anyone has seen either of the suspects he should contact Security immediately.

Solar (Con)Fusion

by Alan Silverstein

The second to the last of the Fall-Winter series of Earnest Watson-Caltech Lectures drew a large crowd to Beckman Auditorium last Monday night at 8 p.m. There was good reason for the crowd's interest as Dr. Roy Gould, Caltech Professor of Engineering and Applied Science, outlined a possible means of forever escaping the current energy crisis by the year 2000. "To Imitate the Sun" was the title of the lecture, and the subject was methods of releasing vast amounts of energy through

hydrogen fusion reactions similar to those that occur in the sun and in H-bombs.

The first order of business was a sweeping survey of all of the possible methods of obtaining energy from nature, including those not yet feasible. Dr. Gould said that nuclear and solar sources are the necessary ones to consider for long-term, essentially non-depletable usage. Of these he selected hydrogen fusion as the most profitable, non-polluting, and workable in the long run, and began to discuss it in some

Continued on Page Seven

FRANKLY SPEAKING...by phil frank



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THE ASCIT FRIDAY NIGHT MOVIE

Vanishing Point

at 7:30 and 9:30 p.m.
in 153 Noyes (Note Change)

Admission: 50¢—ASCIT members and their guests; \$1.00—anyone else

TERM SCHEDULE

Jan 25 Strawberry Statement	Feb 22 The War Between Men and Women
Feb 1 Marooned	Mar 1 Bonnie and Clyde
Feb 8 Billy Jack	Mar 8 Beyond the Valley of the Dolls
Feb 15 Play It Again, Sam	

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Thoughts

On God and Drugs and Little Green Bibles

by Thomas Pressburger and Howard Zebker

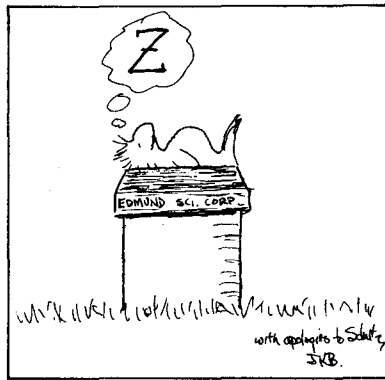
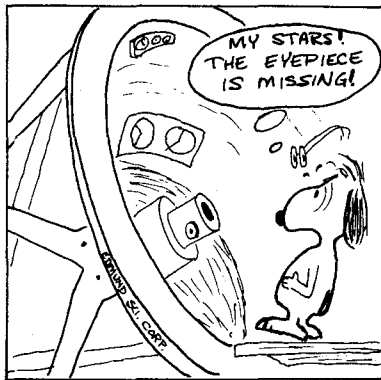
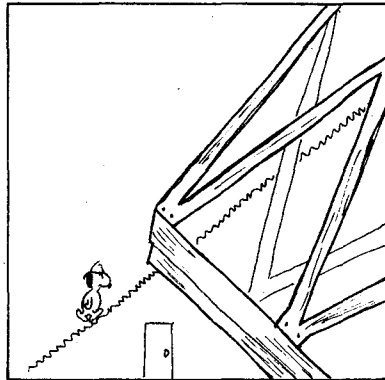
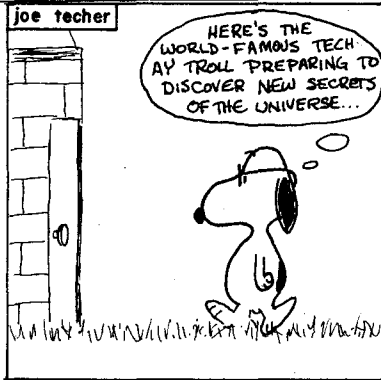
Recently we were victims of solicitation for funds from one of the teen-challenge type drug abuse preventive centers that take people off drugs and turn them on to Jesus. They accomplish this by offering goals in life that are not drug related through Bible meetings, prayer, and the teachings of Jesus. The theory behind this is that the ones dependent on drugs can turn to a less debilitating habit—that of Jesus.

What this actually does accomplish is to give the unfortunate junkie the glorious crutch of God for the demeaning crutch heroin. It is far worse to have your mind corrupted by the asinine belief in Jesus than to have your body corroded by toxic chemicals. The sanctity of the mind is by far more important than the salvation of the body.

A Modest Proposal

What should be done is that the government legalize drugs and addiction so its citizens who are addicted are not subjected to insidious proselytizing. In fact, the FDA should inspect drugs to make sure people are given the correct doses. If steps to enforce the separation of church and state are not taken immediately, there will soon be a tremendous underground cult dedicated to Jesus that will sweep the nation, spreading putrid beliefs.

The day may come soon when we cannot walk down the street without being accosted by degen-



erates begging us for money to support their habit. After all, the cost of bibles is rising every day.

Persons under the influence of God have always been noted for their violence; for example, the Crusades are generally regarded as some of the bloodiest, most sanguine wars in history. We must prevent the spread of religion in this country, now, lest it become another Christianizing of the Indians.

Now is the time to protect against people pushing God and peddling psalms. If not, we will soon be inundated by people violating our basic freedom of what to think. In fact, I can foresee the day when these groups will be on our very own campus, handing out, say, little green bibles on the Olive Walk.

Repent, America, before He can stop you!

Peace and Tranquility To Prevail? Maybe!

What's the outlook for peace studies and anti-war activism on college and university campuses, now that American involvement has ended and an uneasy peace reigns in Southeast Asia? Their need would continue to appear urgent for years to come, though the Class of '77 will be the first group of 18-year olds entering college for almost two generations without a shooting war going on.

Assuming that this year's crop of freshman was born mainly in 1955, its members have spent their entire lives in an active war environment. Some disturbing insights into their and successive college classes' social attitudes

The Red Menace

by Morg Blorg

There is a force at work in our great country which seeks to destroy us. A force for evil is working to overthrow the God-fearing people of this magnificent land. A huge tide—nay—wave of red threatens to engulf us and annihilate our children. This red poison is seeping in everywhere, destroying everything it touches.

The youth of this country are being (and have been) seduced by this menace and their reason is being destroyed by it. This great danger started as a weak and innocuous thing which none considered dangerous; but this red horror has overwhelmed vast numbers of our weaker neighbors and now is weakening our very foundations.

If we permit this infamy to go unchecked there will come a time when this red putrifaction will be everywhere and then it will be too late. This menace grows on our desire for variety and justice, but it does so at the cost of the destruction of these very values which Americans have held dear since our earliest days.

We must fight back now!
We must stop this evil disease!
The rid horror must be destroyed!
CATSUP MUST BE ELIMINATED!!!

You, the citizens of this great land, must be the first to start the campaign to root out the red terror. You must adopt eternal vigilance in the glorious battle. You must destroy every manifestation of the disease at every possible opportunity. Small outbreaks can be quelled by individual action, but larger masses should be reported to the authorities. Suspected catsup sympathizers should be reported to the FBI even if it's your own sister or brother or mother or father or son or daughter.

Catsup, that insult to good taste, has insinuated itself everywhere;

- CATSUP on eggs
- CATSUP on hamburgers
- CATSUP on fried potatoes
- CATSUP sandwiches
- CATSUP shakes
- CATSUP drinks
- CATSUP fake blood
- ... and many more ...

This quiet, unassuming concoction of vinegar and tomatoes claims to enhance the taste of food, but these are delusions of grandeur. The true purpose of this fraud is to protect poor cooks from the retribution which would fall on them if anyone could taste their true output. The incompetent chefs of this country are the staunchest supporters of the catsup movement and the true instigators of the INTERNATIONAL CATSUP CONSPIRACY.

These evil creatures have many guises. They call themselves catsup until they are exposed and run out; but they immediately reappear under the new name of Ketchup or Kat-chup. Don't be fooled. When in doubt Smash. Smash first and ask questions later. Better a thousand innocent sauces and dressings perish unjustly than one despicable catsup escape destruction.

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Levi's for all tastes

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California at Lake

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merchant of venice

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Beckman Auditorium

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"Their finest act is in giving Shakespeare back to the people" —COLUMBUS DISPATCH.

Saturday, January 26 – 8 p.m.

Double-Discount Cards Available For Beckman

by Marc Donner

Double-discount student cards are now available for Beckman/Ramo events. The way this works is this: J. Random Techer invests \$12 into a \$15 card, for which he purchases tickets to various events between now and March 31. Dollar value on the tickets thus purchased is the price available to techers paying real money, and that's already discounted from the price street-walkers have to pay.

Swiftly translated, this means: double-discount cards turn into a forty percent savings (i.e. you'll often be paying less money for the best seats in the house than the real world is paying for the worst seats in the house). The one hitch is that after March 31 the ticket is no good and there are no refunds available.

The tickets are available at the Beckman Ticket Office until January 21, so hurry.

Coming Events

This Sunday, January 20, the Coleman Chamber Music Concert series will continue with the Julliard Quartet in Beckman Auditorium at 3:30 p.m. Tickets are \$6, \$5, \$4, and \$2.50 (\$1.50 off for Techers). The Quartet was here last year, and was

excellent.

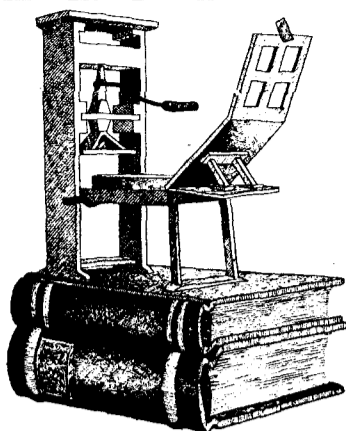
The fourth Lauritsen Memorial Lecture will be in Beckman this Tuesday, January 22, at 8:00 p.m. Professor Victor Weisskopf will speak on sciences in the modern world. The title is: "The Convergence of Natural Sciences in the 20th Century." No admission charge.

Hunchback

On Wednesday the new season of Wednesday night silent movies opens with Chauncey Haines at the organ for Lon Chaney's *The Hunchback of Notre Dame* and *The Phantom of the Opera*. The flicks are in Beckman at 8 p.m. Tickets are \$2.50 for the world and \$1.00 for Techers.

The armchair adventures series with John Roberts will present *Norway* in Beckman auditorium on Friday, January 23, at 8:00 p.m.

The big news for the coming week is Shakespeare. The New Shakespeare Company of San Francisco will be presenting *The Merchant of Venice* in Beckman on Saturday, January 26, at 8 p.m. This is a "free theater" production with minimal props and contemporary costuming. Tickets are \$6, \$5, and \$4, with a 20% discount to Techers.



BOOKS

by Peter W. Beckman

When I read *I Will Fear No Evil* for the first time some three years ago, I felt that Heinlein had at last reached the end of the road. His fantastically versatile pen would produce no more great works to fascinate fandom.

Fortunately, I was wrong. *Time Enough For Love*, which was published in hardcover last May, and has just come out in paperback, is possibly Heinlein's most ambitious work. It is certainly the longest, with 605 pages of memories, descriptions, philosophical debates, parables, notes, and witty sayings. In fact, the enormous variance in the type of material offered leads one to suspect that a large amount of the book's material was taken from other unpublished works and fragments and

rearranged as to time, place, and characters to fit *TEFL*'s overall scheme.

Time Enough

As every sci-fi fan knows by now, *Time Enough For Love* is a partial continuation of the adventures of Lazarus Long, hero of *Methuselah's Children*. It opens some 2000 years after the return of the spaceship *New Frontiers* (which ended the original story). In that time, humanity has scattered itself across the galaxy, while Earth has degenerated into a tenth rate planet. Lazarus, of course, has helped humanity out toward the stars in a variety of careers ranging from migration leader to free trader to pioneer settler.

At the opening of the story Lazarus has finally tired of life after 2350 years. He seeks death, but some of his descendants on the planet Secundus (by this time most of the population of the galaxy is descended from Lazarus one way or another) stop him. They need him to help lead a new migration because they believe Secundus is becoming stagnant and overcivilized. The book centers around Lazarus's relations (sexual and otherwise) with his relatives, his memories of the "good old days," and finally a trip through time in which he has a rather unusual involvement with his own mother.

The most noticeable thing about *Time Enough For Love* is the vast difference between Lazarus II as presented in the book, and the original Lazarus Long presented in *Methuselah's Children*. Both characters represent Heinlein's ideal rugged individualist, but Lazarus II represents thirty years of change in the author as well as 2000 years of added experience in the character.

For Raunch?

This is most obvious in Heinlein's treatment of Lazarus's attitudes toward sex. In *Methuse-*

lah's Children, Lazarus was the superstud misogynist; the man every woman desired, but none could have. In the new book he (with the aid of an "ephemeral" name Dora) has learned how to truly love. And he manages the task pretty well with almost everyone—including two female clones of his body, the other members of a group marriage, a former computer named Mineral, and finally his own mother.

Unfortunately, the book has a number of glaring weaknesses. Heinlein's careful "symphonic" structure is ruined by the apparent randomness in which he moves from the first to the third person, and such cute little phrases as "Omitted *n* words." Heinlein should act consistently; he should either present a memoir or a novel—not both at once.

At times Heinlein's storytelling abilities seem to fail him. His philosophic discussions grow thick enough to choke even an Ayn Rand fanatic, while various absurdities sneak into the plot.

But, even with its flaws, *Time Enough For Love* is one of the most solid works of science fiction to appear in a long time. Its speculations will cause wonder and thought, and its reasonably optimistic outlook will offer some hope to those who have had nothing more cheerful than John Brunner's works to read.

In closing, I can only say, "Mr. Heinlein, thanks for having time enough."

Stud Shop

Continued from Page One

meeting Jan 19. You will get a chance to look the shop over and meet the committeemen, and we hope you decide to join.

If you have any questions, contact Lou Scheffer, 213 Page (449-9755).

Peace?

Continued from Page Three

By the 1980's, the generation of school children whom Dr. Tolley studies will have grown up and assumed the responsibilities of adult citizenship. It can be inferred from his sampled group that a large part of the college and university population of this decade requires a sustained peace education to crystalize their social awareness against war.

The sample group comprised 2,677 children in grades three to eight in New York, New Jersey and Maryland, whom Dr. Tolley interviewed early in 1971. At the time, Vietnam was still an abrasive public issue. These children had lived their entire lives in a war environment. They were the first generation to have observed televised combat. And they had been exposed to the anti-war movements in the schools during the 1960s.

Acceptance of the inevitability of war by these children, though almost all thought it bad, may hold a grim portent for the future unless the colleges and universities can develop peace studies to shape their attitudes more successfully than their childhood influences. Some 54 percent of the children agreed that "war is sometimes necessary." Most of the children opined that war is justified if it defends our country's freedom. A third of the children interviewed believed that war is good if it results in the defeat of communism.

Resigned to the System?

An implied warning on the cynicism toward war among the youth of 1971 was voiced by Dr. Tolley. "If the radical movement of the 1960's derived in part from the disappointed expectation of idealistic youth," he

said, "the more critical children of 1971 should face no such disillusionment in the decade ahead. Rather than manifest righteous indignation at departures from the democratic creed, more cynical youth might simply accept the system with resignation.

Some of Tolley's other thought-provoking findings are:

- Media coverage has improved children's factual knowledge of Vietnam, but parents and teachers are a greater influence on their opinions.

- Status: the greatest opposition to war was found among high-income white children, and among black children. Among the blacks, opposition was stronger somewhat for those in the high-income group. Suburban and rural children showed appreciably more patriotic loyalty, and favored winning in Vietnam.

- Age: older children were better informed about war (and Vietnam), and tended more toward acceptance of its inevitability.

- Conclusions: There's no formula for creating a peace orientation in the coming-into adulthood generation of the 1980s.

It would appear that our colleges and universities have their work cut out in fostering a higher order of political and social orientation against war in their educational scheme, if we are to make any progress to a world at peace in the future.

Caltech Searches For \$130 Million In New Funding

by Gavin Claypool

With the slogan "At the Leading Edge," Caltech has launched a fund-raising campaign designed to bring in \$130 million over the next five years.

The campaign was formally announced Monday evening at a black-tie banquet with more than 700 civic and business leaders in attendance.

Thirty-three million dollars of the projected \$130 million has already been raised. The Institute is asking for \$50 million in endowment funds, \$40 million for current operating expenses, \$27 million for new buildings and endowments for their maintenance, and \$13 million in trusts for various purposes.

Seeking a Better Base

The increase in endowment funds will raise the percentage of Caltech's total revenue that such funds provide by 5 percent—from the current 15 percent to a 20 percent figure more common to private universities of Caltech's stature. It will also allow for increasing the number of endowed professorships, which is only 11 at present.

Among the new buildings proposed are a laboratory for projects in biology and chemistry related to medical science, a building for housing research in

Continued on Page Seven

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The Department of Engineering and Applied Science of Yale University is offering a limited number of Special Grants to college juniors who would like to gain experience in advanced research this summer.

Available projects include work involving environmental studies and air pollution, efficient usage of energy, pattern recognition, computer simulation, systems studies, biomechanics, laser technology, solid state physics, surface chemistry and catalysis, atomic physics and electronics, plasma physics.

Stipends will be in the range \$100-\$120 a week and will be awarded for an 11-week period from June 3 through August 16, 1974.

For further details and application forms please contact your department office, dean's office, or placement office, or write to:

Summer Research Program
Department of Engineering and Applied Science
Yale University
New Haven, Connecticut 06520
or call (203) 436-2671
Completed applications are due March 1, 1974.

SILVER SCREENING

"Chariots of the Gods?", the motion picture adaptation of author Erich von Daeniken's international best-seller, has already opened a limited engagement at selected theatres in the L.A. area.

"Chariots of the Gods?", a winner at the 1973 Atlanta Film Festival, explores von Daeniken's controversial theory that many ancient civilizations developed as the result of advanced knowledge brought to the earth by extra-terrestrial visitors.

An international cult has developed as a result of von Daeniken's theories, which have rocked conventional theories of archeology and history. Three of his books, all dealing with the subject, have sold over 25 million copies.

The Sun International Productions release documents the theory with examples from countries around the world, including such archeological enigmas as the

statues on Easter Island, the pyramids, and cave drawings resembling modern-day astronauts.

Besides such physical evidence, von Daeniken cites Biblical passages and other ancient writings to support his theory.

The book and film have produced great curiosity and interest around the world. A number of noted scientists, including Dr. Herman Oberth, father of the rocket, have substantiated part of von Daeniken's ideas. While many of the "establishment" archeologists tend to ridicule von Daeniken, the iconoclastic author predicts that resistance in the scientific community will lessen as new knowledge is developed about the history of man—and the sources of his knowledge.

"Chariots of the Gods?" was produced by a German film company, Terra Filmkunst, and directed by Dr. Harald Reinl.

BBBB

Continued from Page One

biology at Caltech, who determined that each of the two hemispheres in the human brain has specialized tasks. The left hemisphere handles language and the right hemisphere deals with artistic and spatial concepts. The discovery of hemispheric specialization could lead to the development of procedures designed specifically to train the right hemisphere, which now gets only a smattering of education because most present classes train only the left hemisphere. This is the reason that most people are

half-wits.

Dr. James Olds, Bing Professor of Behavioral Biology, discovered the pleasure centers of the brain and is elucidating how learning may take place simultaneously in several different thought centers. With a computer and a funny hat, Dr. Derek Fender, Caltech professor of biology and applied science, is tracing the routing of visual and auditory signals through the brain.

The building will be on display in the Court of Man for the remainder of today through Sunday. Visitors are warned that parking spaces may not be available on New Year's Day.

Kate' Auditions Coming Up This Sunday in Baxter

Auditions for this year's ASCIT Musical, Kiss Me Kate, will be held in Baxter Humanities Lecture Hall throughout the week of January 20 to 26. Anyone who wishes to try out for the cast or chorus should appear at one of the following times:

Sunday, January 20, from 1:00 p.m. to 5:00 p.m.

Tuesday, January 22, from 7:30 p.m. to 9:30 p.m.

Saturday, January 26, from 1:00 p.m. to 5:00 p.m.

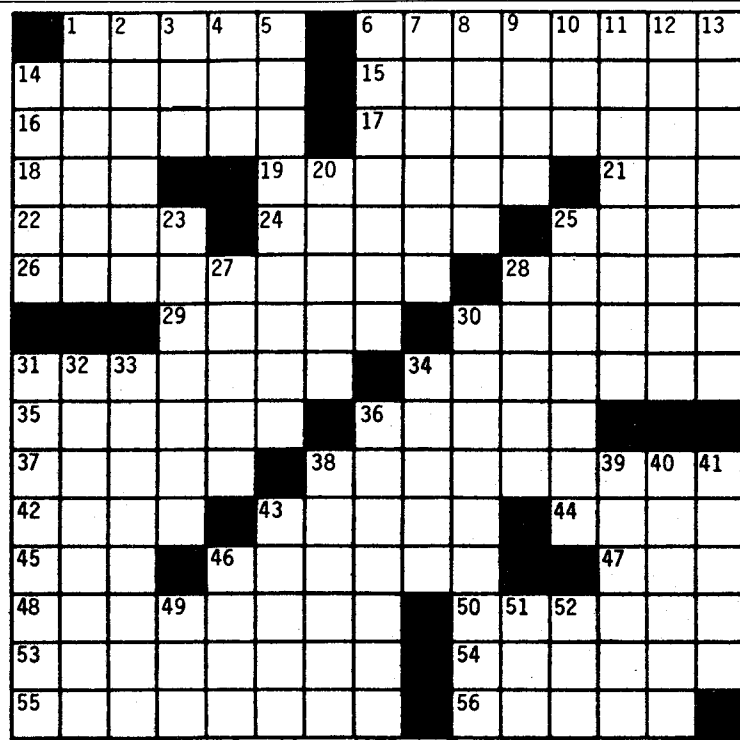
During the audition, you will be expected to sing a song of your own choosing, so in order for the Music Director and the accompanist to be able to see the music, please bring two (2) copies. Also, if you have a photograph of yourself, please bring it. If you would like to use music from Kiss Me Kate, please see Flora Constanten in Winnett Center Office.

Dancers are also needed (desperately!) in the show. If you can dance at all, please come to the auditions on Sunday, January 20 or Saturday, January 26 and indicate that you are a dancer. We will be very happy to see you.

If you are interested in playing in the orchestra, a preliminary meeting will be held next month on Sunday, February 17, in 25 Baxter. In the meantime, please call John Gustafson at 449-9696 or Flora Constanten at ext. 2157 and let us know you are interested.

We also need people interested in working on sets and lighting; general stage crew kinds of things. Please call Steve Gillett at 796-6881 or Flora Constanten at ext. 2157 if you want to help.

Anyone who thinks he would enjoy working on a musical is encouraged to audition, or to volunteer for the behind-the-scenes work. If you know anyone who is interested, please tell him. We aren't looking for professionals. Enthusiastic amateurs are welcome. Faculty, staff, and students are welcome. Your parents, friends, and siblings are welcome. Everyone is welcome...



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ACROSS

- 1 Exclude
- 6 Power
- 14 Cuban cigar
- 15 Standards
- 16 Type style
- 17 Showing deep respect
- 18 Carried out
- 19 Expunges
- 21 Prefix: outside
- 22 At any time
- 24 Ravished
- 25 Being: Sp.
- 26 Provides meaning again
- 28 French flower
- 29 Beats
- 30 — Leone
- 31 Put into action
- 34 — have it
- 35 Cognition
- 36 Obtain knowledge
- 37 To go: Fr.
- 38 Apollo 16 commander
- 42 Hardens

DOWN

- 43 Representative (abbr.)
- 44 Iranian coin
- 45 File section
- 46 Baseball hall of famer
- 47 African antelope
- 48 Menu term
- 50 Ascribe
- 53 Shirk
- 54 Looked at slyly
- 55 Knitted garments
- 56 Collect together

- 11 Mountain — (song)
- 12 Color lightly
- 13 Cape —
- 14 Concealer
- 20 Gamut
- 23 Declines to accept
- 25 — of Aquitaine
- 27 Natural talent
- 28 Of strong emotion
- 30 Utopia
- 31 Word game
- 32 Delicatessen food
- 33 Discloser of secret
- 34 Light, derisive laugh
- 36 Loungers
- 38 Medieval entertainer
- 39 Medieval Turks
- 40 French city
- 41 Stuck together
- 43 Funeral hymn
- 46 16th Century card game
- 49 Government agency
- 51 Hebrew letter
- 52 — soup

Tech Purity Test

by Alan Silverstein

This is the time of year when the minds of young people turn to sex and when most of the undergrad Houses publish certain tests designed to determine d(purity)/dt.

Everyone knows how strange the things that happen in the Tech office are. Anyway, here's our own job. Harrumph.

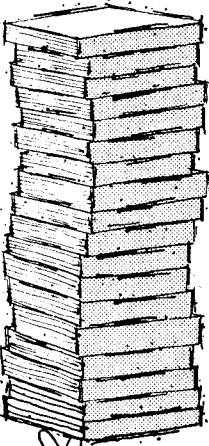
- 1) Are you male or female? (2 pts if yes)
- 2) Are you an undergrad? (6 pts if yes; 5 pts if a Tech undergrad; 10 pts if you were a Tech undergrad but suddenly found yourself with a whole lot more time on your hands)
- 3) Add 2 pts for each of the

following things you don't do on Wednesday nights:

- a) go to bed early
- b) homework
- c) nookie
- d) go to bed.
- 4) Can you dial a Fester? (6 pts)
- 5) Can you dial a phone? (3 pts; 2 pts if not but you have your own push-button)
- 6) Does \$13,622 impress you? (5 pts; -2 pts if it scares you enough to give you finger-lock)
- 7) Would you like to play with Molly? (3 pts; 6 pts if you know who she is)
- 8) Would you like to play with Hal? (3 pts; 6 pts if you know who he is)
- 9) Add 2 pts for each of the following words which turn you on:
 - a) glitch
 - b) typo (3 pts bonus if you never made one)
 - c) pasteup
 - d) deadline
 - e) editor (10 pts bonus if you know what they do; 5 pts more bonus if you tell us)
- 10) Have you ever heard of the Tech Trio Duo Solo? (1 pt; 3 pts for each one you can identify; -2 pts for each autograph you have collected)
- 11) Have you heard of Staph Parties? (1 pt; 3 pts bonus if still interested)
- 12) Add n points, where n = GPA.
- 13) Can you type? (0 pts because we can't either, we're just interested)
- 14) When did you last read the

Continued on Page Seven

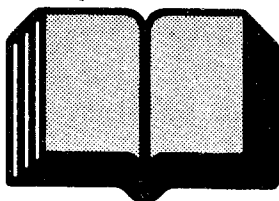
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I. M. Fainting?

Techers Scale Mexican Heights

by I. M. Wett

How's the view from the third highest mountain on the continent? "It's like you're on top of the world," comments one of three Techers who was on top of Mexico's Pico de Orizaba (Citlaltepetl) in December.

The odyssey of Page Dudes Rick Conrey and Patty Perigo and Darb Bob Kieckhefer started early on Wednesday morning of first-term finals week, when they squeezed themselves and their equipment into Conrey's Datsun and began 52 hours of non-stop driving. About three hours later the expedition hit its low point: 200 feet below sea level, near the Salton Sea.

Their drive through Mexico was always exciting and often terrifying, especially at night. It's not clear which was the bigger hazard—busses which tried to run the Datsun off the road or burros and cattle which threatened to demolish the car by their total disregard for the rules of the road. Weaving through the Mexican Army (both infantry and cavalry) was also thrilling.

Cuidado Con El Coche!

After two days of non-stop driving the Techers put all their driving skills together for their first drive through Mexico City and survived without even being rear-ended. After some quick

shopping in Amecameca they arrived at their campsite at 13,000 feet on the slopes of Popocatepetl, Mexico's second highest volcano and the fifth highest peak in North America (17,887 feet).

The lack of oxygen at this altitude soon became apparent when Kieckhefer almost fainted while performing the strenuous exercise of waxing his boots. But anything was preferable to the Mexico City traffic!

The next morning the three climbers awoke at 2:00 and began climbing by moonlight before 4:00. The comet Kohoutek was *not* visible to the naked eye. Soon the three Gringos found themselves climbing with an Outward-Bound-type class of Mexicans, who laughed at the Americans who needed to breathe twice per step while climbing.

Diez Horas Al Pico

The climb itself was one of the easiest portions of the trip (especially compared to driving in Mexico City), and the climbers arrived at the H₂S-belching crater about noon. The Mexicans turned back there, but the Americans continued to the summit to enjoy the view of Mexico City's smog.

The trip down from the summit was uneventful compared

to the next morning, when Kieckhefer and Perigo were attacked by Montezuma's Revenge (*turista*) and began drinking copious amounts of kapectate. This turn of events forced the cancellation of plans to climb Popo's sister volcano, Ixtaccihuatl; the three climbed Pyramid of the Sun (8000 feet?) at Teotihuacan instead.

Ud. Tiene Que Pagar . . .

After a day of shopping and sightseeing in Mexico City and a delightful evening at the home of a Mexican friend, the adventurous Techers set out for Pico de Orizaba, 120 miles to the east. The first excitement came when the Datsun ran a red light in Mexico City, but somehow Kieckhefer managed to talk his way out of a ticket *without* paying off the policeman.

Pico de Orizaba soon appeared before them, rising to 18,854 feet from a 7500-foot plain. The paved roads end in Tlalchicuca, where the Americans and four German climbers boarded a jeep for a dusty two-hour ride to the base of the mountain. Another hour of walking took them to their sleeping quarters, a stone hut above the timber line.

The climb the next morning began with two frustrating hours of pre-dawn hiking and flashlight repair; the moon, having waned

Ice Hockey Team Keeps on Winning

by Clyde Barrow

Caltech's hockey team continued its winning ways last Sunday night by defeating Cal State Northridge by a score of 7-4. This was Tech's fourth straight victory against no losses (in league play) and the second against Northridge.

Will Lennard led the team with three goals and one assist. Fred Culick and Bill Harris each added two goals. Caltech started the scoring when Culick fed Lennard and he slammed it home, but Northridge quickly came back with two goals and the first period ended with Northridge leading 3-2.

Weary from their trip to Montreal over the term break, the team needed some exceptional goaltending from Dan Margoliash.

After a discussion during intermission, the Tech team regained its poise and reeled off five goals in the last two periods.

The team will have one week off before returning to their home ice and defending their unbeaten league record against the UCLA Bruins on January 27.

Be careful with fire. Remember: there are babes in the woods.

And those baby fawns, rabbits, squirrels and trees need a safe, happy home. They need a place where they can grow up strong and healthy.

Like babes everywhere.

So, please, be careful with fire when you're in the forest.

Follow all the rules of safety and caution—just like any other place where there are children at play.



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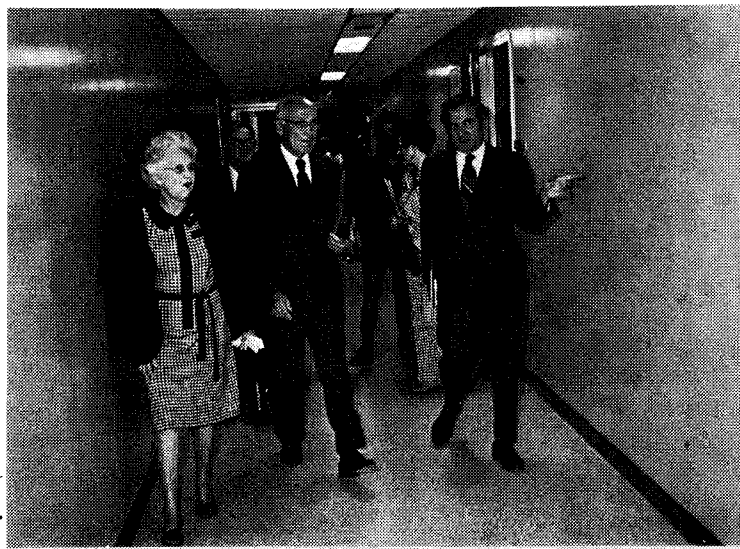
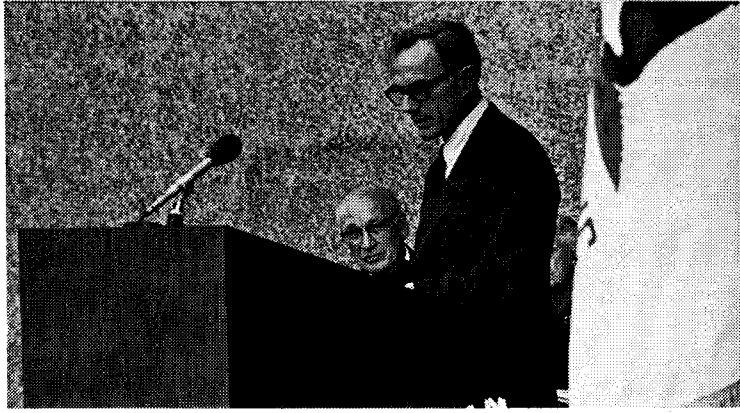
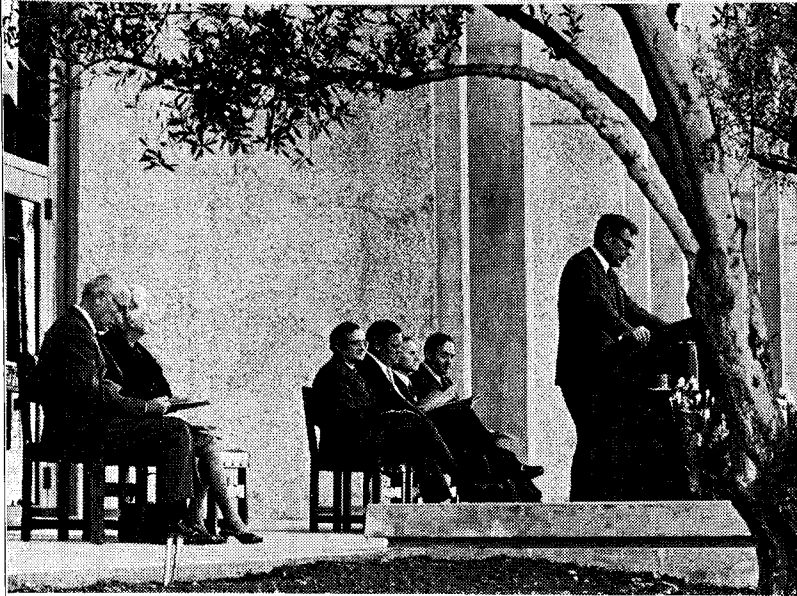
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Photos by Peisner

... and behind this door we keep our undergrads ...

Fusion

Continued from Page Two detail.

Deuterium (present in sea water to 1 part in 7000) and Tritium (derivable from lithium) both heavy forms of hydrogen, look to be the bases of the two most promising fusion reactions. Both reactions are simple and release much energy, but unfortunately both require high tem-

peratures to get started. The Tritium reaction, called DT because deuterium is also involved, has a lower activation energy and thus is currently the best prospect for the first controlled fusion reaction. (The fusion in an H-bomb is uncontrollable and is triggered by a fission bomb.)

To achieve nuclear fusion on a smaller scale than in a bomb, it is necessary to heat the reactants to temperatures of about 10^8 °C, confine them away from the walls of the reaction chamber long enough for complete reaction (10^{-1} to 10^{-15} sec, depending on material density

and temperature), and extract the released energy and convert it to a usable form such as electricity. This can only be done in a large plant, so there is no way you could ever drive up to a "water station," put a gallon of "heavy water" in your tank, and drive away.

Critical Problems

Successful confinement time and temperature reached are the critical problems now being researched around the world. One method that looks hopeful involves containing DT plasma (or ionized, superheated DT gas) magnetically within a large torus

(donut shape) while it circulates, so there are no "ends for it to get out of," and heating it with a current. Reactors have been and are now being built that can attain time-temperature-density products approaching the break even point, i.e., the point where more energy comes out than goes in.

A second possible method of starting reactions would decrease confinement times drastically by increasing the density of the reactants. Powerful lasers, more powerful than any now existing, would heat a DT pellet until it exploded. 70% of each pellet would ablate off before reaction, compressing the rest of it to a very high density. Pellets would drop in continuously, resulting in a "putt-putt engine". More energetic lasers have to be developed before this method can be tried.

Dr. Gould predicted that fusion reactors will be "scientifically feasible" by 1980 and that the first fusion power plant will go into commercial operation before 2000.

stuff like that.

17) Have you ever heard of Lit 15? (3 pts; -2 pts if you're sorry you did)

18) Would you like to be a Tech editor? (if yes, just stay right there. Major Be-Zonk will be over shortly if the little men in the white coats don't get there first. If you are intelligent instead, but think you might be naive enough to get trapped into doing it, 15 pts)

19) Do you like donuts? (Free donuts in Winnett every Thursday at 4)

20) Do you prefer randomness or organization? (Like, for example, tests with 20 questions in them instead of 19) (take a good look at your score and if you think you need more points, try this question again, 35 pts for randomness; 5 pts for organization)

ANALYSING YOUR SCORE: You'll have to do that yourself. (Did we tell you to take this test??) Hint: take your score, add 6, take the natural log, subtract from five (negative scores are always impressive).

Funding

Continued from Page Four earthquake engineering and the environment, and a new astrophysics building.

The astrophysics building would be similar to an existing institute in the U.S.S.R. (and one that formerly existed in Great Britain) as a center for theoretical astrophysics.

Try Sodium Hydroxide

The \$40 million requested for current operating expenses would be used for supporting the education and research at Tech along with such indirect necessities as utilities and insurance premiums.

Caltech's last campaign ("Science for Mankind") was a success raising slightly more than its goal of \$75 million. The current campaign is expected to meet the needs of the Institute for the next 10 years, while the \$13 million in trusts will provide funds for the more distant future.



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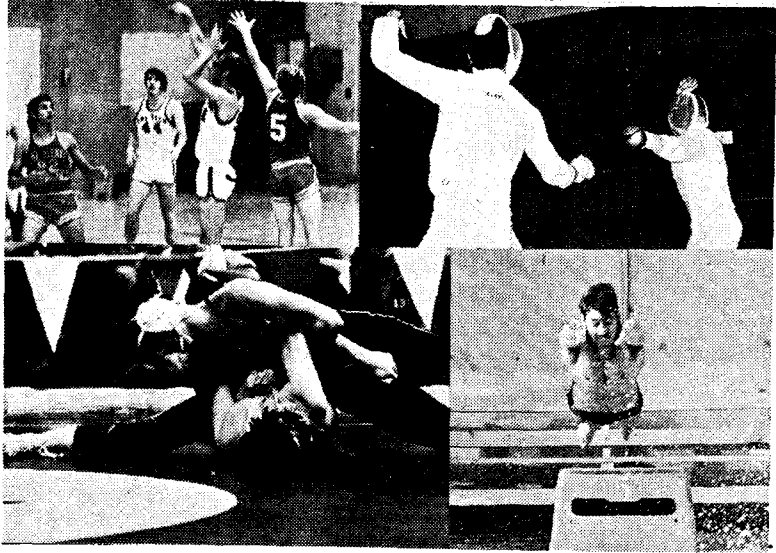
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Tech Track Team Tries To Train Triumphantly

The 1973 Track Team caused quite a commotion while setting 6 new school records. But prospects look even brighter for the 1974 squad. Coach Leroy Neal feels that 8 or maybe even 10 more school records could fall. One of the reasons for this optimism is the fact that all but one of last year's record setters are back to form a nucleus of outstanding returnees. To compliment this contingent, a strong turn-out of talented freshmen is anticipated, which all adds up to indicate that this could be the most colorful, record-busting and exciting track team in Caltech history.

Among the returnees are Haywood Robinson (100, 220, 440, relays), Doug Herbert (shotput, discus), Greg Hoyt (relays, 440, intermediate hurdles), Greg Griffin (mile, 3 mile, 6 mile, marathon) and Brent Sweitzer (shotput, javelin). Robinson, Kleinsasser and Griffin qualified last year for the N.A.I.A. National Finals Meet in Arkadelphia, Arkansas.

Talented freshman prospects include Chris Jensen (mile, 3 mile, 6 mile), Steve Kellogg, (3 mile, 6 mile, marathon), Joe Arpaia (mile, 3 mile, 6 mile), Tom Creswell (880, 440, intermediate hurdles and high hurdles), Alfred Sepulveda (100, 220, relays), Neal Askew (100, 220, relays), Lorenzo Cotton

(100, 220, relays), Bob Thorton (100, 220, relays), Richard Frechen (shotput, discus), Duane Boman (long jump), Rich Pietraz (3 mile, 6 mile), Larry Bridges (3 mile, 6 mile) and Peter Pathe (pole vault).

Anyone interested in becoming part of this year's exciting track campaign should contact Coach Neal, through the P.E. office immediately.

Breakfast For Champions

Friday, January 18			
4:00 p.m.	Swimming	Occidental	Away
7:30 p.m.	Wrestling	Redlands	Away
Saturday, January 19			
1:00 p.m.	Fencing	UC Santa Barbara & LA Valley College	at LAVC
6:30 p.m.	JV Basketball	Whittier	Away
8:15 p.m.	Varsity Basketball	Whittier	Away
Wednesday, January 23			
4:15 p.m.	Wrestling	La Verne	Home
5:15 p.m.	Wrestling	Azusa Pacific	Home
6:30 p.m.	JV Basketball	Occidental	Away
8:15 p.m.	Varsity Basketball	Occidental	Away
Thursday, January 24			
6:00 p.m.	Wrestling	Cal State LA & So. Cal. Coll.	at SCC
Friday, January 25			
4:00 p.m.	Swimming	Claremont-Mudd	Home
6:00 p.m.	JV Basketball	Pacific Christian	Away
8:00 p.m.	Varsity Basketball	Pacific Christian	Away

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by I.M. Wett

Caltech's swimmers splashed to a 65-24 victory over Whittier last Friday in their first meet of the season. Techers won nine of the eleven races and everybody who made the trip to Whittier placed in at least one race.

All who attended the meet complimented Whittier on the comfortable (warm) water temperature in the pool. Presuming that President Nixon's alma mater knows the approved methods of allocating energy, the powers at Caltech have raised the water temperature here from last week's 68° to a more comfortable 75°. Meanwhile the surf roars in at San Clemente at 55°...

Gone, Gone, This Form of Jello

Demon Wrestlers Back

by Caterpillar

The L.A. Dodgers had the "May Play" and the "June Swoon." Since nothing terribly fantastic rhymes with December and January it will have to suffice to state the facts about the Caltech wrestling team.

Sporting an impressive 4-0 record from last month's monastic life, the indulgences of the holidays told on the team,

Russ Desiderio, Howard Bubb, and Mark Visser each scored two first places and swam on one of Tech's two winning relay teams. Desiderio won the 200-yard individual medley, the 200-yard breaststroke, and swam the breaststroke leg of the medley relay.

Bubb's victories were in the 50- and 100-yard freestyles. He also found the energy to swim a leg of the freestyle relay, for a total of 250 yards of work for the afternoon. [In swimming, work comes in yards, not ergs.] Visser swam the butterfly leg of the medley relay and won the 200 butterfly and the 200 backstroke.

Senior Bob Coleman cele-

brated his return to swimming competition (after a two-year hiatus) by receiving Tech's only other first place, in the 200-yard freestyle. He also swam legs for both relay teams.

Fran Proves Them Wrong

Francine Wetter's second place in the 200 butterfly won her the admiration of all present and showed that the President isn't the only Whittierite to have poor judgement. (Many of the Whittier fans present expressed serious doubts that Fran could swim 200 yards of butterfly. But then many Techers doubt that tape recordings can be erased accidentally five times.)

Steve Bitondo and Jim Seidel each captured 7 3/4 of Tech's points. Bitondo received second places in the two freestyle sprints, Seidel took second in the two distance freestyle events, and they each swam a leg of the freestyle relay.

Mike Wilson rounded out Tech's scoring by placing third in the 200 breaststroke and swimming the anchor leg of the medley relay.

Tech's swimmers will put their one-game winning streak on the line this afternoon when they go to Occidental to take on this year's probable NAIA national champions. But even national champions have been known to lose swimming meets...

Facing top-ranked Biola last week the matmen went down to a depressing 36-6 defeat.

The team managed a sixth place finish out of eighteen teams at their own tournament. Ken Walker salvaged the day with a first place finish at the 150 lb. weight class, pinning every opponent. A relative unknown took a third for Caltech at 158 lb.

This week the wrestlers pay the piper in two all important conference matches: Wednesday's Pomona match will be past history by press time, but the matmen will also travel to Redlands Friday night. The question of the week is "Who will wrestle Axel Borg?"

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