

Excuse me
Officer,

California Tech

Associated Students of the California Institute of Technology

Do you have
a match?

Volume LXX

Pasadena, California, Thursday, November 14, 1968

Number 8

**CALTECH
BEAVERS
BEAT
UCSD
34-31**

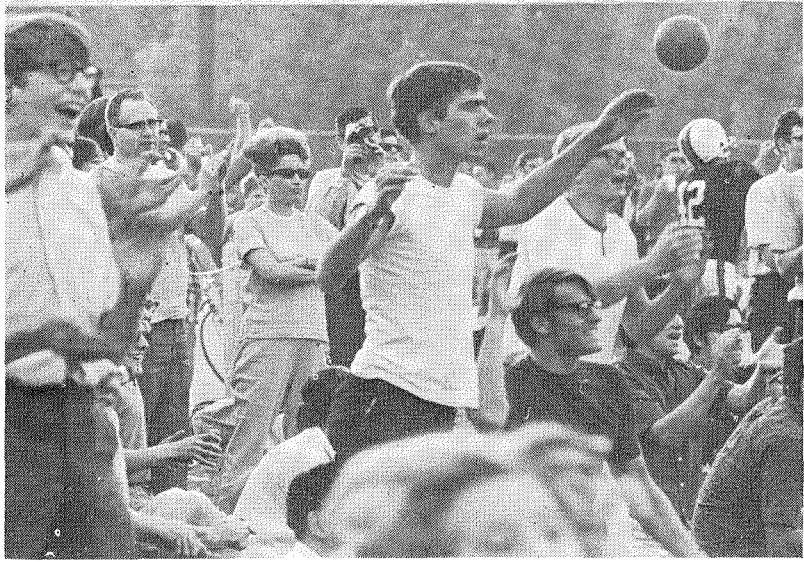
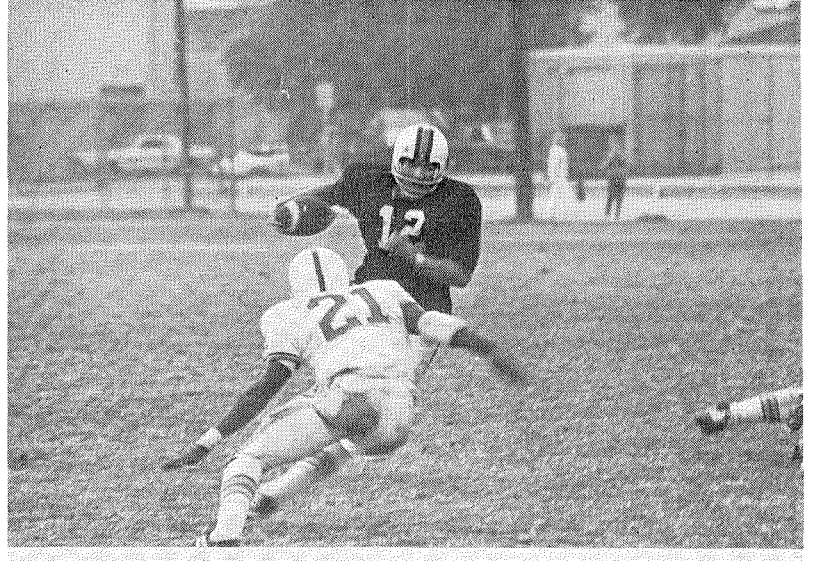


photo by Bean

Even a horny UCSD tackle couldn't stop the fearless Burton as he ran up infinite yardage for Caltech.

photos by Bean

photos by Bean

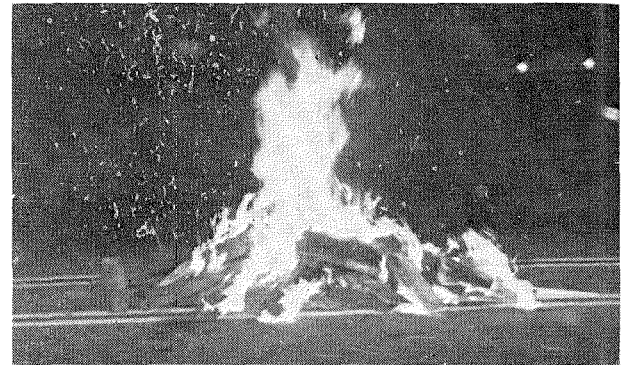
V-Day November 9 1968

Upper: Our first touchdown, by scant inches, kept us ahead or even throughout the game. Notice the position of the goal line and the ball.

Lower: "We Won?!?!" Amazement and joy were the overwhelming feelings of the Caltech community, but reactions were mixed. Apparently, this Tecker was simply stunned.

Upper: Neither rain, nor snow, nor sleet, nor surly opposition stopped our couriers from their appointed rounds.

Lower: You're a good man, Coach Gutman!



photos by Levin

photo by Bean

photo by Levin

A minor diversion that failed to divert firemen from the real goal at Calif. and Lake.

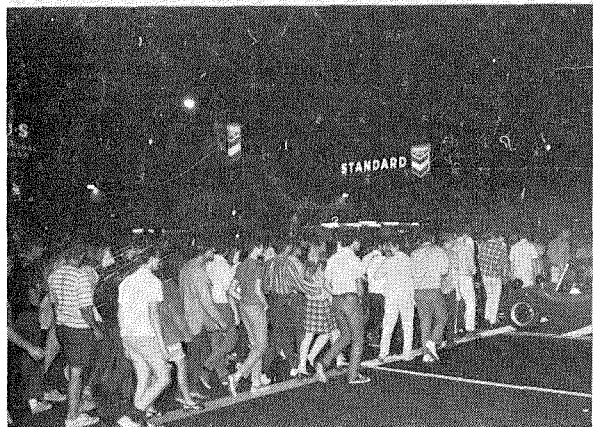


photo by Bean

Above: Tech pyros show the rest of the world how it's done.

Below: While playing "Crosswalk" with the boys in blue, Teckers and friends shout "We're No. 1," and "Beat SC."

At the corner of California and Lake, Tech's victory brightens the scene considerably. But shouldn't Coach Gutman be presiding over the victory pyre? After all, even Lee A. showed up.

The firemen certainly didn't dampen OUR spirits.

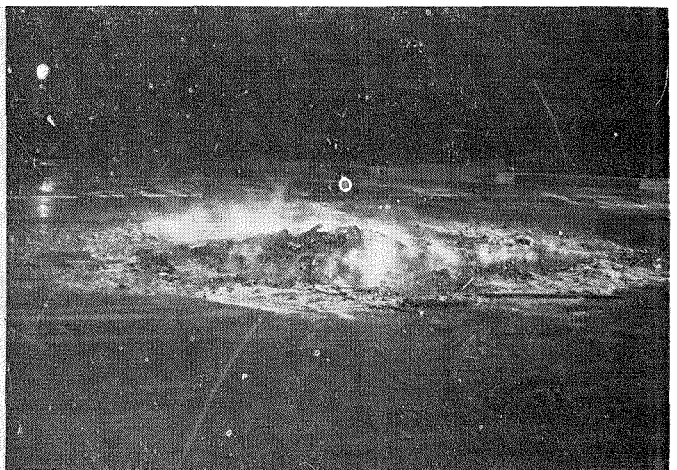
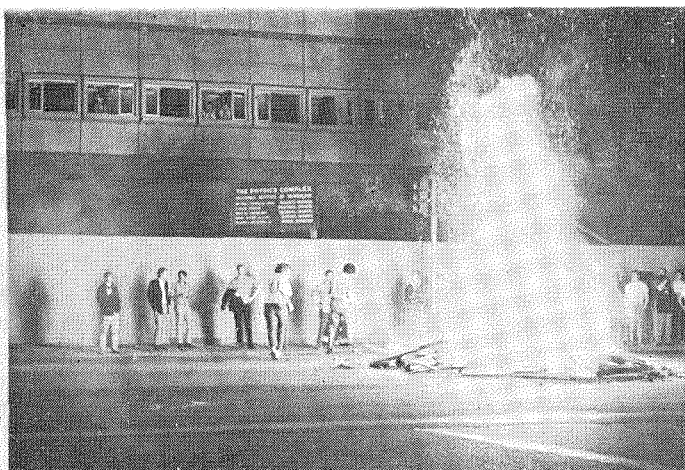
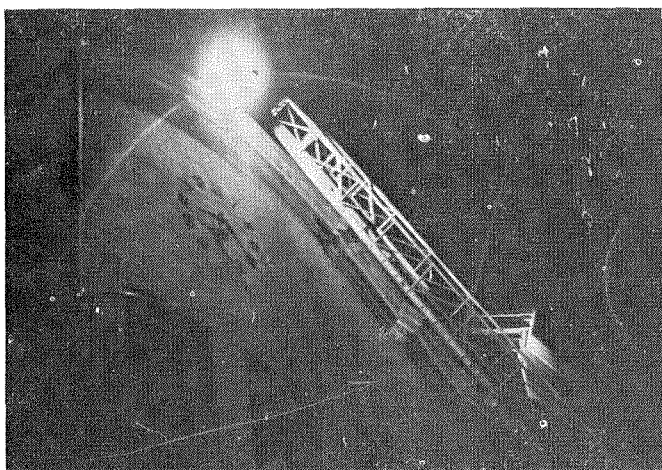


photo by Bean

photo by Dash

photo by Dash

There were more alarms and excursions when someone phoned in the signal flare on the roof of troop. Those firemen were really on the go!

The Forbes Memorial Fire was set at 1 a.m. Situated at the corner of California and Arden, it cast the light of victory over the new physics complex.

Unfortunately, the sacrilegious Pasadena firemen felt that Forbes' monument was better rendered in wet, smoking ashes and asphalt. And so ended Caltech's victory festivities.

Better Late Than Never

Beavers Break Streak; Destroy UCSD 34-31

by Dave Dixon

The Beaver football team won its first game in 35 attempts as they downed UCSD, 34-31, last Saturday. The Beavers won on poise and experience as they were able to stop the Tridents on 3 2-point extra point tries. This was to be their margin of victory as Burton was able to kick 4 PAT's.

For the first time in many games CIT faced a team in its class and proved that they can play football. Burton's aerials to Martin picked apart the UCSD secondary as Martin caught 11 of Burton's 14 completions. Full-back Brennan scampered through the many holes that the Beaver line opened in the Trident defensive line, for 140 yds. Burton, for his sterling performance, was named Southern California college back of the week. He made 150 yds. passing and 65 yds. running.

The Beavers scored first as Brennan ran over from the two and Burton kicked the extra point. UCSD then marched down field to score on a reverse hand-off. The UCSD ground attack rolled up over 230 yds. against the Beaver line. The Tridents made their lone extra point on this touchdown. The Beavers fumbled the kick-off which UCSD recovered, and the Tridents used their impetus from this break to score another touchdown. The extra point kick failed.

Burton began connecting with his passes to Martin. They were stalled on their own 40-yd., line when Burton tried the bomb. CIT received a break as Martin was interfered with on the 2. Burton then rushed for the touchdown and kicked the PAT to put CIT in the lead, 14-13.

UCSD gave the Beavers another break as they fumbled a pass and CIT recovered on the 50. The Burton to Martin passes again clicked and put CIT down (Continued on page 5)

Was At Tech 40 Years

Albert Tyler, Biologist, Dies

Dr. Albert Tyler, 62, distinguished embryologist and professor of biology at Caltech, died Saturday following a heart attack at his home, 530 Bonita Avenue, San Marino.

Private services were held Sunday at Lamb Funeral Home in Pasadena, followed by cremation.

Dr. Tyler, who had been on the Caltech faculty for 40 years, made major contributions in the field of embryology and was active in national and international organizations on planned parenthood, population problems and marine biology.

He studied the "unmasking" of the egg's protein-building

machinery by the act of fertilization and at the time of his death was investigating the role of genetic material in the living cell's power-generating system.

Studied Cancer

Earlier he advanced a theory of cancer as an allergic disease and suggested the possibility that the weightlessness of space flight might tend to alter the organization of living cells. He also had done research on parthenogenesis.

Dr. Tyler taught many graduate students, published more than 170 scientific papers, and wrote chapters to several books on biology. He was editor or co-editor of three volumes.

He was a consultant to the National Science Foundation on developmental biology, had served the World Health Organization on scientific committees, and was a member of the National Academy of Sciences' panel on population problems. He was a member of many scientific societies and was former president of several, including the Society of General Physiologists.

Awarded Ph.D. Here

Born in Brooklyn, Dr. Tyler graduated from Columbia University with honors and earned a master's degree there. He obtained a Ph.D. from Caltech in 1929.

He had served on the faculties of Caltech, Columbia, UCLA, Marine Biology Laboratory at Woods Hole, Mass., and institutions in Germany and Italy.

He leaves his wife, Mrs. Betty Tyler; two sons, James, of Corona del Mar and Steven, of Santa Barbara; two grandchildren; and two brothers, Dr. Edward Tyler of Brentwood, and Dr. David B. Tyler of Washington, D.C.

difficulties facing researchers who had heretofore been heavily reliant on NSF support. In 1966-67 he received separate grants from the NSF and the Atomic Energy Commission totaling \$60,000. Shortly thereafter the government consolidated the two, for simplicity, into a single annual grant of \$42,000.

However, in August 1968 the Institute was informed by the NSF that it would suffer a blanket seventeen percent reduction on grants. Certain of the NSF-dependent projects had already been legally contracted prior to this notice, and to achieve the 17% figure, it became necessary to skim an average of 32% off of the uncontracted in-

dividual budgets. Dr. Hammond was thus left with less than \$29,000 with which to finance for which nearly \$31,000 was already committed. Fortunately, Chemical Society Petroleum Research Fund has provided one graduate fellowship, to ease the sting, but matters are still quite grave.

Problem Not Unique

"This sad song and dance of mine is not a lot worse than many around campus," stated a worried Dr. Hammond. "There just aren't any sources of cash lying around waiting to be asked for." If this were not sufficient cause for concern, all Departments of Defense contributions (Continued on page 4)

Test Car Coming To Tech; And It's Not Electric!

An experimental car designed by Ford will be on display on campus Monday, November 18. Called the Techna, it will be shown from 10 a.m. to 4 p.m. on "Greasy Street," (next to Winnett). At eleven o'clock the same day there will be a descriptive

film and technical presentation in 308 Firestone.

"The Techna marks the birth of some Ford 'better ideas' of the future," said Harold C. MacDonald, Ford vice president — Car Engineering, under whose direction the cars was developed.

IMF Captures Campus

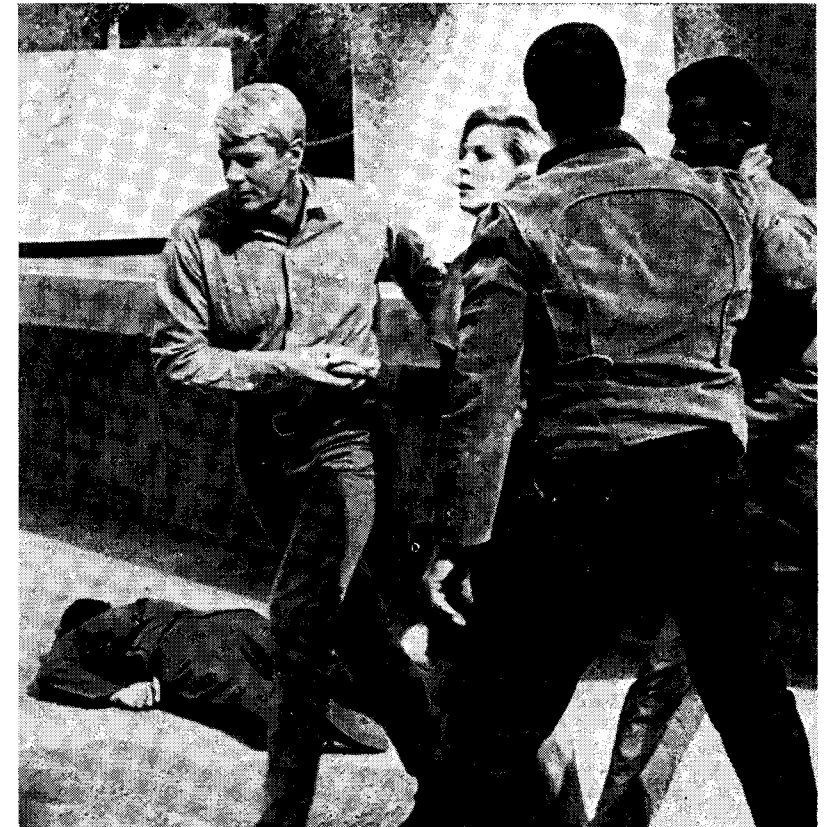


photo by Dash

Members of the Impossible Missions Force escort a sweet young thing (portrayed by Barbara Bain) out of Millikan Library (portrayed by the Vandaam Research Center). The sweet young thing was saved by the IMF from such terrors as campus security guards (see lower left corner) demanding to see her ID in the library after hours. Did the IMF accomplish their mission? Please note this week's football score for an answer. We have learned that any scenes in which Teckers are visible have been eliminated from the film as a result of action by the CBS censors.

by Jim Cooper

Last Wednesday, the Caltech campus was invaded by a film crew from the television show Mission Impossible, ostensibly for the purpose of filming an episode of that series.

According to Ed Haldelmen, the production manager for the show, the episode being filmed involved an industrialist by the gone broke and has built a nuclear weapon to sell to the highest bidder. Of course he is doing this so he no longer remains broke.

The Impossible Mission Force's mission is to stop Vandaam and to confiscate the vital parts of the weapon.

Vandaam

The action centers around Van-

daam's personal monument to himself, a magnificent office building, which is located in the midst of his decrepit industrial complex. According to Haldelmen, Caltech's Millikan Library and the surrounding campus was selected to portray Vandaam Industries primarily because Haldelmen knew "of no other place in Southern California in which the contrast between old and new is so apparent."

Another part of the campus, Firestone Laboratory, was converted into the "Helm Bank," for a scene in the same episode. Also used were the roof of Millikan Library and the elevator shaft in Firestone.

The air-date of the episode, which is entitled, "Doomsday," (Continued on page 6)

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Editorial

Communication, Dammit!

For the past few weeks, the BOD and the student body have been at each other's throats. This is not an uncommon state of affairs here but it is unusual to see so much fighting based on so little knowledge. Both sides have acted somewhat foolishly.

The BOD has made a grave error in not properly informing the students of what is going on in ASCIT. This includes such items as the plans behind the Research Center and the ASCIT budget. There may be Board members who feel that the BOD had been trying to communicate with the students, but the fact is that they have not succeeded. The blame for this belongs on both sides. The student body's actions tend to make the BOD act defensively, and hence secretly. The BOD fails to communicate and forces the student body to squeeze the information out of them. These are facts, regardless of intent.

The student body has acted inconsistently. They have been kept in ignorance by the BOD, but they are attempting to criticize specific actions of ASCIT (which they have little or no information about). This is impossible; the student body must be informed before it can criticize effectively, not afterwards. The present actions of the student body have had the effect of threatening the BOD and putting it on the defensive. Such efforts may ultimately force information out of the BOD, but they will never convince the BOD to volunteer info willingly. It should be clear that the campus could function much better if the two factions cooperated.

We hold the position that ASCIT should communicate with the students. It is **not** enough to say, "We tried and failed", the responsibility rests with the BOD. We also feel that the student body should give ASCIT a chance to speak without feeling threatened. Mutterings of "abolish ASCIT" will not help.

Our suggestion is that both sides make constructive attempts to communicate with each other. We request that the student body give ASCIT one month to communicate with them. The student body should not threaten the BOD. At the same time, the BOD should honor ALL requests by the students for information, and should volunteer such information to the students and houses in the form of newsletters and house-BOD meetings. Both sides should take an active part. If ASCIT cannot communicate under these conditions, the students are fully justified in demanding an overhaul of ASCIT.

We support the decision of ASCIT to place the question of ASCIT dues on the ballot, leaving the decision up to the students. But it should be realized that such actions of goodwill are not a replacement for proper information flow. The students should not need to resort to petitions simply to be told what is happening.

Alan Stein
Dave Lewin

Black Films Show Newton, Elevation Plays For Free

by Dave Lewin

If you have never been to the Cinematheque 16 in Pasadena's Old Town, the films showing there now give ample excuse for a trip there. When you do go, instead of climbing the stairs to the second floor, go to the back and take the elevator up. Its an experience not to be passed up.

Now that my architectural euphoria is behind me, I can concentrate on the job at hand—reviewing the show. The bill consists of three flicks by Black filmmakers. The first is "Prelude to Revolution," an interview with Black Panther Party leader Huey Newton filmed in his jail cell. Due to the small size of the cell, the camera is at all times showing an unintentional 'closeup' of Newton. His explanation of the aims and methods of the Black Panther Party are highlighted at one point by footage of the site of the attack on their headquarters by the Oakland Police. Hearing Huey is in itself worthwhile, but the other two films make the evening obligatory for all film buffs, and other people interested in what's going on in the Black community.

Gig, Johnny, Gig

"Johnny Gigs Out," made in Watts and starring Parris Earl, tells of a kid, just out of L.A. County Jail trying to build a life for himself as a musician. cheap hotel, and tries to find a

He leaves home, moves into a decent job. All he can find is a job in a carwash. Losing that, he moves into a condemned
(Continued on page 6)

Notices

SCIENCE FICTION!

ASCIT will sponsor a free showing of **Forbidden Planet** this Friday, Nov. 15, at 8:00 p.m. in Beckman. Faculty and employees also invited. Come see the wonders of the Krell!

YOU WRITE—WE READ

TOTEM meeting at 9:30 p.m., Monday, November 18, at the Coffeehouse. Material (writing, art, photography) is being solicited for the next issue. See J. Falk (Dabney), B. Hocker (Blacker), Dr. Zeigel (Gates).

SENIORS

remember to have your Big T pictures taken. Please contact Kent Studio, 2539 Mission, San Marino (phone: SY 9-7337) and arrange for an appointment as soon as possible. There is some time available after Saturday.

California Tech

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Short Change

(Continued from page 3)

to Caltech are vulnerable to reductions for 1969-70. The Institute's general funds are unable to fill the void left by these cutbacks, since Caltech is already dealing in its reserve funds.

Even with a decline in military spending, Dr. Hammond predicts no great renewal of incoming funds in the immediate future. "Caltech and the nation as a whole will be doing less significant research in the next five years than has been accomplished in the past five," he speculated. Yet to be considered are repercussions which may

alter the number of fellowships for graduate study available, and which may cause divisional chairmen extreme grief in establishing priorities for individual professor's research.

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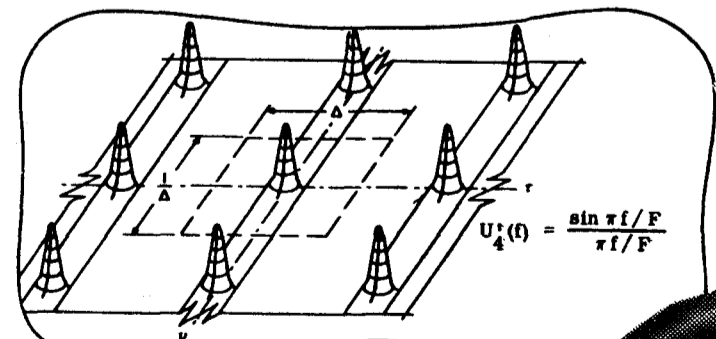
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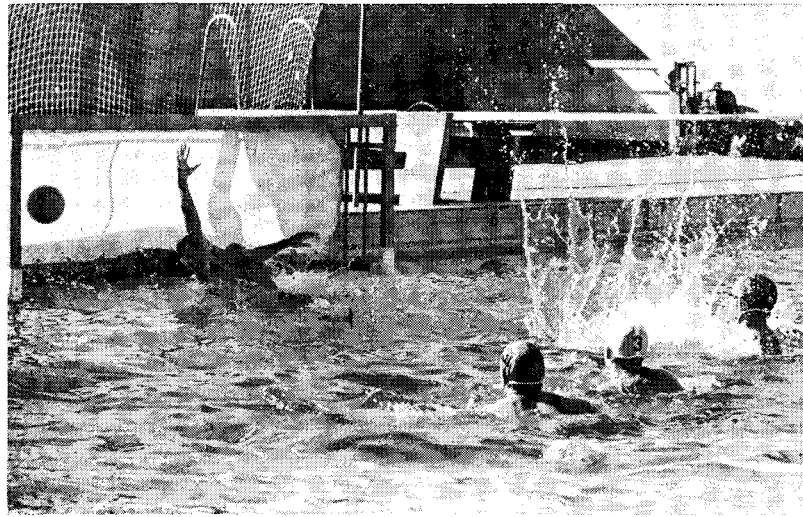


photo by Dash

Beaver Larry Watkins scores a penalty shot against CHM.

Ducks Swim To Win

The CIT water polo team swam hard as they downed Occidental, 7-4, and lost a hard fought battle to CHM, 5-4.

In the Oxy game, the whole team played together and divided the scoring up. Beaver Mikowicz scored first on a lob shot. The Beavers relaxed their defense and Oxy scored on a fast break. This quarter was characterized by poor Beaver passing. In the second period Hunt and Stefanko scored yet Oxy tied the score on two penalty throws to end the half tied up at 3-3.

The Beavers came alive in the second half and held Oxy to one goal, while scoring four. Wright and Hunt scored in the third period while Watkins made two penalty throws. Occidental was badly hurt by the fact that four of its starters were ejected or fouled out. Their only other score came on a penalty shot late in the fourth quarter.

In the game against Claremont-Mudd the fact that two starters

fouled out lost the game for the Beavers. The Beavers outplayed CHM throughout the first half as Mikowicz scored two goals and his fine passing kept the ball out of CHM's hands. Watkins scored a penalty shot. CHM's Durnin, a one-man team, scored two goals, one on a penalty shot to make the score 3-2 at the half.

In the third quarter, the teams traded goals as Tech controlled the game once again. Mikowicz and Watkins fouled out as the fourth quarter began and freshman Sheffield was forced to cover Durnin. Durnin managed to score to tie up the game and then made a penalty shot to give CHM their margin of victory. CHM went into a stall and didn't foul to finish the game.

Ken Hansen, CIT's goalie, was outstanding in stopping many CHM shots. The Beavers outplayed the CHM ducks but were defeated because of players who fouled out.

Mason Fifth At SCIAC

by Martin Smith

Flying Lane Mason led the Caltech team in the SCIAC cross country championship meet Saturday at Mt. S.A.C., taking fifth overall. Mason's time for the extremely hilly 4.2 mile course was 23:23, quite close to 3rd and 4th place runners Rude (23:19) and Fishel (23:21), both from Occidental. The overall winners were Bob Deines (22:58.9) and the Oxy team.

Martin Smith and Ratchford Higgins fought a spirited battle for the next Caltech place during the first three miles, with Smith finally gaining the advantage by sprinting down the water-tower hill. Both runners ran well, beating many runners who had beaten them previously, with Smith taking 13th in the last 20 meters in 24:25, and Higgins finishing 18th in 24:48. Unfortunately, Tardiff and Hermyer were both off their best performances, so the chance to overtake Whittier for fourth went down the tube.

Runners Leg

It was a meet full of surprises, as many runners were far from their expected places, perhaps due to the hot weather and the difficult course. In the end, Oxy had it all sewed up with 1, 3, 4, 8, 10 for 25 points. Pomona, stronger than expected, upset Redlands for second with 67 to 74. Whittier almost fell victim to Tech with 95 to 102, and Claremont-Harvey Mudd groaned under a 158 point load.

For the season's final meet, the NAIA District meet, also at Mt. S.A.C., but 5 miles instead of 4, the Caltech team is still plagued by the wide spread between runners.



photo by Linker

Tech forward Andy Chow (center), backed up by Dave Holmes, fires shot past Whittier defender.

Booters Down Whittier

by Nick Smith

Caltech's varsity soccer team defeated Whittier last Saturday by the score of 2-1. This was the first win for the team in over a month, and the first league victory since the middle of last season. In the game, they showed spirit and drive that had been missing for most of this season. Caltech took twice as many total shots as did Whittier, and twice as many as Caltech had taken in any other game. this season. The Whittier defense was hard pressed in all but the second quarter, and the Tech forwards were able to drive hard.

Coach Ron Kehoe switched the positions of several starters for this game, and it was apparently effective. Former forwards Ralph Graham and Dick Burton joined Jon Hall at the halfback positions, while halves Vesa Junkkarinen and Mike MacLeod were moved to fullback and center forward, respectively. All three of the halfbacks played an excellent game, and forwards MacLeod and Andy Chow were at their best, beating Whittier players for the ball and giving the Whittier

goalie a real workout. And Chow scored both Tech goals, and made several shots that did not score. Ron Stevens, normally a defensive player, also played a good game on the forward line. The Whittier defense had a great deal of trouble clearing the ball out of their own territory, since the Tech forwards were applying what looked like a soccer version of basketball's full court press. The Tech defense had no such problems, and did not make the sort of defensive errors that have been costing goals this season. Tech had more speed and strength than they had shown in previous games, and Whittier was unable to match either. All in all, it was the best game that Tech has played since last season.

The next game is this Saturday, against Chapman College, at 10 a.m. at the Caltech soccer field.

Football Win

(Continued from page 3)

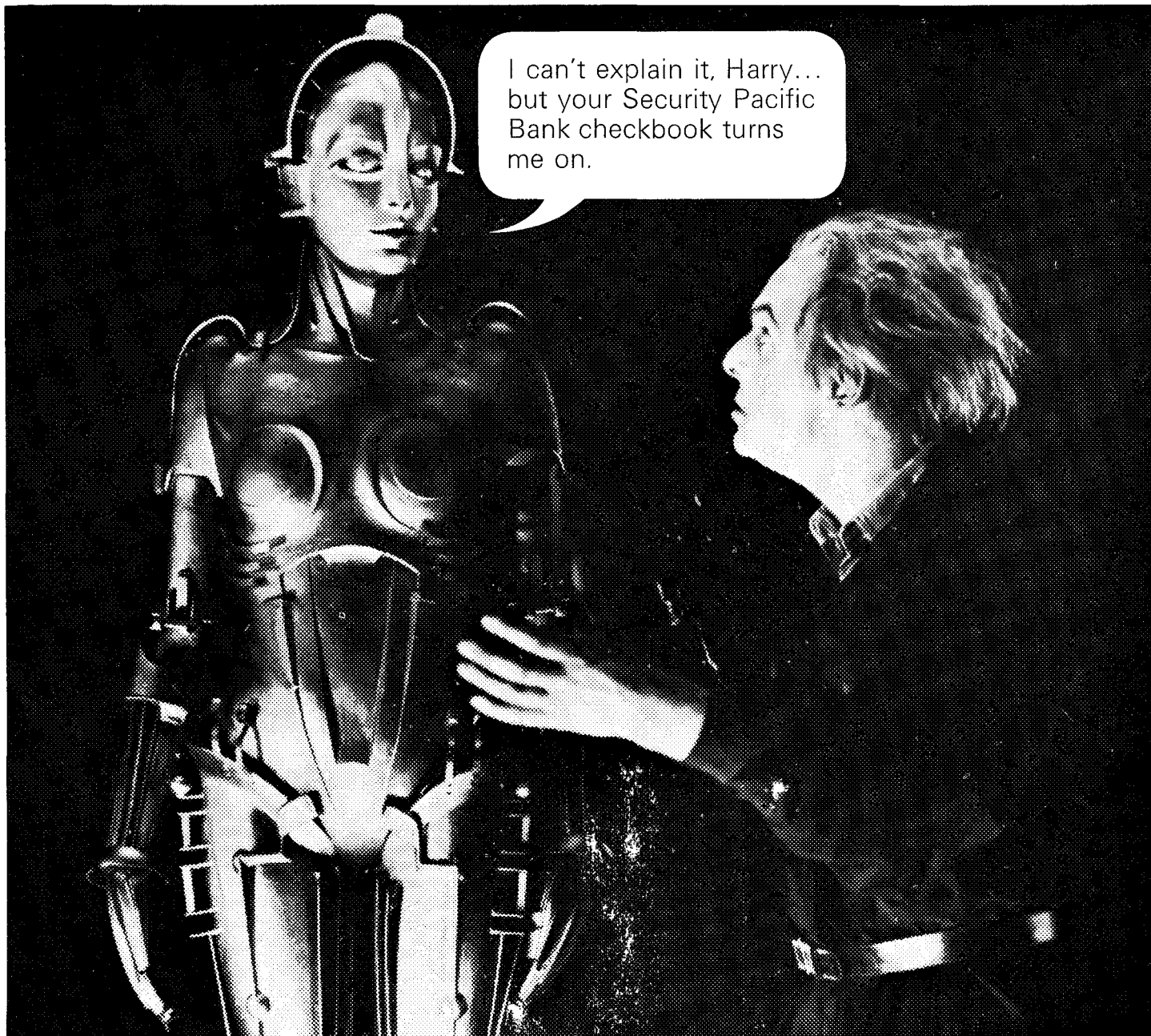
on the 11 from where Brennan scored on a run up the middle. Burton again converted to make the score, 21-13. The Tridents came back and ran through and around the Beaver line to score on a run up the center. However, Beaver Al Beagle stopped the sweep and prevented the 2 point PAT. The score at the half stood at 21-19.

The teams in the third quarter were evenly matched as the Tridents ended their drive with a fumble and the Beavers were stopped on the Trident goal line. However, the Beavers came back as Burton rushed and scored 2 plays later. He missed the PAT so the score stood at 27-21.

The Tridents again battered the Beaver line and scored on a pass. However, the Beaver line again stopped the sweep for the 2 extra points. The Beavers moved to the UCSD 11 where a Burton pass was intercepted. Burton then intercepted a Trident pass and Brennan scored. Burton converted to put the game out of reach, 34-25.

UCSD came back to score but did not convert again. The game ended as Pockay fell on the on-side kick with the Beavers victorious, 34-31.

Coach Gutman said that he was very pleased with the team's performance. "They played as a team, everyone bringing everyone else up. It was the finest Caltech football game that I have ever seen."



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ASCIT Center Defined

(Note: Jim Beck is the Director of the ASCIT Research Center. The function and purpose of this organization is the subject of the following article.)

by Jim Beck

The ASCIT Research Center is a means of providing support for groups of students who wish to do research. A student wishing to work on a research project can use the resources of the Center to help publicize for additional student participation, to supply immediate financial aid, and to seek subsequent support from large foundations. The goal of the Center is to allow research groups to concentrate on developing research ideas instead of having to look for support.

The Center is administered by an executive board, Carl Goodwin (coordinator), and Jim Beck (director), responsible to the ASCIT Board of Directors for disbursement of funds and direction of the project. The research project groups (such as the smog project) are autonomous bodies operating with Center help.

In order to start a project, a student need only contact some Center representative, who will, in turn, contact the director. Publicity work will then begin for a seminar at which those interested in the idea can meet and discuss it. The Center will handle administrative work such as publicity and room reservation, but the project organization and content is exclusively up to the participants.

To Submit Ideas

After a few such seminars, when a good idea of the project has been worked out, with the help of the faculty advisors, a "project prospectus" can be submitted to the Exec Board with a support request. A "project prospectus" is merely a simple statement of the project title, its purpose, the nature of the experimental work, the time period required, and the approximate expected cost.

All prospectuses will be acted on within two weeks. The Center is most likely to fund a project with faculty advisors, although this is not a requirement. A final report on the results of the research will be customary.

Grants for Project

An approval project may be

granted up to \$500 by the Center directly. If further funding is required, the Center will then attempt to obtain more substantial support through grants from various foundations and/or other sponsors.

Projects already under way to some degree include the air pollution research project, (Dave Perasso, director), the elementary education research project (Gregg Wright), and the brain circuitry research project (Raul Basu). Others are being planned.

Black Students

Bill Hocker is directing a program in which twenty black Southern college students will come to CIT as research fellows of the Center. Funding for this program was received last week from the Ford Foundation in a \$32,700 grant. Like all student research associates from other schools, they will be taking not more than three courses in addition to their research work while at Tech. Several houses have already indicated that there will probably be room for these fellows to live on campus.

Huey Who?

(Continued from page 4)

house, steals a record player, and practices his horn, after spending the last of his money at his neighborhood pusher. Johnny finally learns to blow his horn with the best of them, returns the stolen phonograph, and gets shot by a nervous white cop. The film gives an impressive (on one memory) view of life and death in the Black ghetto.

Karl Marx Had 'Em

In my humble (who, me?) opinion, the best of the triad was a rather wierd film entitled "Pimple, Pimple, Only A Pimple." Given that God is a thirty-year-old Black man, what else

could war be but a pimple on His eternal rump. Operated by kindly, leacherous Doc Hipocrates, a specialist in Hemrodology (and other disorders of the ass), God is relieved of His seventh millenia old ailment. The obviously light-hearted spirit of this film is guaranteed to pull anyone out of the doldrums. Don't miss it. It's playing all this week, if I remember correctly.

Missionary

(Continued from page 3)

has not yet been decided, according to Haldelman.

Not At Liberty

However, a spy of ours has uncovered a script which perhaps

explains the REAL REASON that the IM Force was on campus this past weekend.

A portion of the script says, in part, "Mr. Phelps, the man before you is Tom Gutman, head football coach of the California Institute of Technology. For the time that Gutman has been coach at Caltech, the football team has not won a single game.

"Your mission, should you decide to accept, is to help Coach Gutman and the team win a game. As usual, should you or any of your IF Forces be caught or killed, the secretary will disavow any knowledge of your actions. Good luck, Jim. Please dispose of the newspaper in the usual manner."

Oscar Werner
in
INTERLUDE
co-hit
Burt Lancaster
in
THE SWIMMER

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The JPL professional staffing team will be visiting California Institute of Technology on Monday, November 18. And this balanced team of specialists can assist in launching you on a long-range career.

But first here are some facts about JPL. The Jet Propulsion Laboratory is operated by the California Institute of Technology for the National Aeronautics and Space Administration. It is responsible for conceiving, designing and supervising the fabrication of spacecraft. It is also responsible for the instrumentation, com-

munication networks and data handling systems for the nation's unmanned lunar and planetary explorations.

Launching spacecraft and making sure everything's A-okay takes a lot of people with a multiplicity of talents: mathematicians, physicists, programmers. Exobiologists, chemists, computer specialists. And all kinds of engineers.

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Simply see your Placement Director, or write to JPL's Supervisor of Employment,

Wallace Peterson. Better yet, stop by and see JPL's Jim Dyer and the other JPL specialists that'll be visiting Cal Tech on November 18.



JET PROPULSION LABORATORY

California Institute of Technology
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JPL can launch you on a long-range career.



NUMBER 2 IN THIS SERIES

At Howard University, Washington, D. C., Walter Hawkins (left), Director of Placement and Career Planning, presents PhD Candidate, Frederick Oliver (center) to Wallace Peterson (standing), JPL Employment Supervisor, Edward Chandler (right), JPL Engineering Group Supervisor Space Sciences Division, describes 1/10 scale model of JPL's Surveyor VII.

ERIC ANDERSEN

From the closed dead ends and littered canyons of lower Manhattan, he sings of the future — sometimes burning bright, sometimes simply burning. A new kind of ecstasy's on fire here.



AVALANCHE Eric Andersen WS 1748



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