

Election Poll Taken by YMCA

In order to determine campus opinion in the coming election, the Caltech YMCA recently circulated a form among faculty members, grad students, and undergrads.

Governor Brown won the campus-wide poll, with a total of 54% of the total votes. Nixon was the choice of 39% of the voters, and 7 %were undecided.

Among the undergraduates, voting was split very closely, with 202 voting for Brown and 198 for Nixon. Forty-two people had no preference. Thomas H. Kuchel, the incumbent Republican Senator, won over Richard Richards by a vote of 163 to 79, while Ralph Richardson, a Democrat, won over Max Rafferty 140 to 44 for the office of State Superintendent of Public Instruction. In addition, Proposition 1A, to raise bonds to finance higher education, passed 368 to 37, and Proposition 23, for Senate reapportionment, won 312 to 72. Only Proposition 24, for control of subversive activities, went down to defeat 67 to 331.

Among the graduate students, voting went Brown-89, Nixon-52, and undecided-9. Kuchel won over Richards, 77-34, with 39 undecided, Richardson beat Rafferty, 84-26, with 8 not decided, and Proposition 23, 101-28, with 21 not voting. Proposition 24 went down to defeat again, 21-122, with 7 undecided.

The faculty continued to be strongly pro-Democrat again this year, voting 126-45 for Brown, with only 3 undecided. However, Senator Kuchel won 80-66, (Continued on page 2)

ASCIT Locates Totem Editor

At the BOD meeting last Monday night, it was learned that Totem, the campus literary magazine, has an editor: the job was handed down to John Webber. Now that he has learned this, Webber will check with the Humanities Department to make the job official.

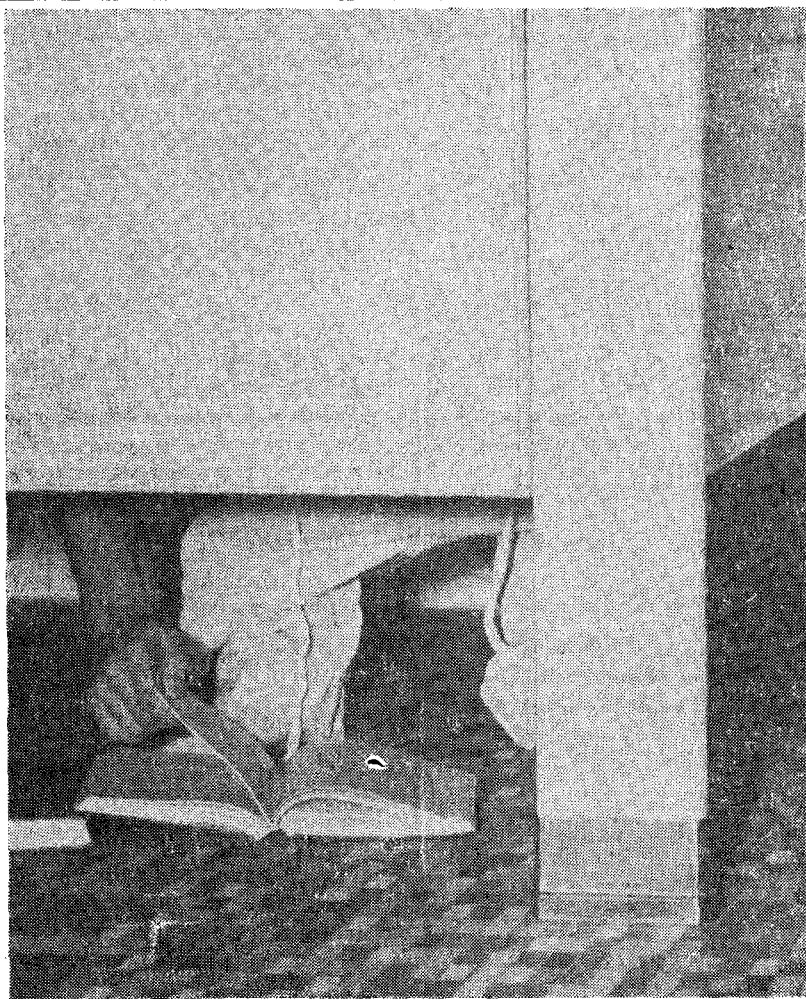
Decision on whether to place the IHC president on the BOD was postponed, because several by-laws which must be amended have been discovered, and it is hoped that one election can be held to clear up everything.

It was also voted that ASCIT pay for the first faculty coffee hour, to be held on Wednesday, November 6, at 3 p.m., in the Winnett Center Lounge. The idea behind the coffee hours is to induce the faculty to spend part of their free time in the lounge during the day.

The EPC is contacting faculty committees to determine whether they would like to have a poll of student opinion on PE, and to find out what questions should be included in it.

In response to numerous requests, ASCIT will sponsor a dance in the Winnett Lounge after the Oxy game, and will arrange for music and refreshments; however, if a live band is wanted, the houses must pay for it themselves.

Special emblems for last year's frosh tennis team, which took the conference championship, were also approved.



—photo by Wally Yerbovsky

Midterms week is here again!

Institute of European Studies To Award Study Scholarships

The Institute of European Studies is now accepting scholarship applications for undergraduate study in Europe during 1963-64.

Seven scholarships are being offered for study at the Institute's centers in Vienna; Paris; and Freiburg, West Germany. Three are full scholarships covering tuition, fees, room, board, and transportation.

Each program includes formal classes, lectures, seminars and field-study. The programs in Vienna and Paris are open to sophomores and juniors but the Freiburg program is limited to juniors.

A full scholarship valued at \$2,230 and partial scholarships valued at \$500 and \$1,000 are available for the program at the University of Vienna. The program there combines English-taught liberal arts and general studies courses, intensive German language instruction, regular university courses taught in German for those competent in the language, and supplementary lectures and seminars. Previous knowledge of German is not required.

For its program at the University of Freiburg the Institute is offering a full scholarship worth \$2,125 and a partial scholarship of \$1,000. The program stresses political science, German language study, German philosophy and literature, and European history. All classes are taught in German.

Scholarships offered for study

Polio Vaccine Set

Type 1 Oral Sabin Vaccine for polio will be available at the health center next Tuesday, November 6, for all students, faculty members, and employees who did not get it during the citywide clinics. The vaccine will be given from 10 a.m. to 12 noon and from 1 p.m. to 5 p.m.

in Paris include one full scholarship equivalent to \$2,475, and a partial scholarship of \$500. The program encompasses liberal arts and general studies combined with opportunities for independent study.

Applicants must be between 18 and 24 and unmarried. Scholarships will be granted on the basis of academic achievement, need, and home college recommendation. Application deadline is February 15. Literature is available from the Institute of European Studies, 35 E. Wacker Drive, Chicago 1. Announcements of awards will be about May 1, 1963.

Interhouse Schemes Decided by Houses

Plans for this year's Interhouse are becoming more definite with two and a half weeks to go. Themes include "Aztec Exotica," a "Lost City," "Arabian Nights," the "Latin Quarter of Paris," "Egypt," and a Norse motif.

Page House will feature an 8-foot waterfall and a dance floor in the middle of a lake. The lounge will take the form of an Aztec temple, in accordance with the House theme of "Aztec Exotica." A seemingly insecure footbridge will lead into the courtyard, in which will be a "huge" idol.

A "Lost City" in the jungle will be presented by Dabney. The walls are to be covered with fawns, and the courtyard will feature a series of planes which represent pieces of an old wall. One of these planes will be flush with the House porch and will be used for dancing. A reflecting pool is planned for one corner, and the lounge will

Parents of Frosh Converge on Tech

Parents of new Caltech students converged on the campus on Saturday, October, 27 to participate in the thirteenth annual Parents Day.

Registration began at 9:30 a.m. in Dabney Hall with the program beginning at 10:00 a.m. in 201 East Bridge. Speakers included Robert Sharp, professor of Geology; Foster Stong, Dean of Freshmen; John Andelin, Master of Student Houses; L. W. Jones, Dean of Admissions; and Peter Miller, Lecturer in English and Assistant Director of Admissions. The main topics of discussion were the methods of accepting students, the study habits of students, and life at Caltech. The institution of blue slips was also disclosed to the

parents.

After these lectures, luncheon was served in the Athenaeum where Dr. DuBridge spoke to the parents on various topics of science, the expanding universe and the role of DNA in heredity. DuBridge mentioned the cost of education at Caltech and the sources of the Institute's income.

The parents, of whom some had come from as far as the east coast, were given a guided tour of the campus. Some were amused to discover many of the places selected to be shown were locked for the weekend. Not only did the parents discover the academic life of the campus, they had an opportunity to become acquainted with the students and the Houses. Parent's Day was initiated to answer questions students' parents might have.

Y Sponsors Temple Visit

BY JUDI HELFMAN

Is God infallible? Would anyone other than a Tech scientist argue with God? Perhaps the Jews . . .

Last Friday night a group of fourteen Caltech people attended Sabbath Evening Services at the Fairfax Reform Temple, launching a series entitled "The Many Faces of Religion," sponsored by the YMCA.

The services were led by a white-bearded man, arrayed in the traditional black robes and hat of the rabbi. Dr. Jacob Sonderling, the spiritual leader of Fairfax Temple, moved us with the spirit that was embodied in his eyes and voice. For the benefit of our group he explained some of the psalms chanted and gave a short history of what was involved in the responsive (Continued on page 3)

Mudeo Fight Finances Hop

BY CRAIG MURPHY

The Mudeo, the greatest frosh-soph conflict outside of initiation, will be held on the South side of the football field on Friday, November 13. These strenuous athletic endeavors (tug-of-war, sack race, wheelbarrow race, horse-and-rider, tire spree, etc.) will determine who will pay for the annual frosh-soph hop. The very apt and impartial judgment of the junior Class Officers will keep order and prevent chaos from taking over immediately.

The athletic quality of the participating classes insures a very close and extremely interesting contest. While the frosh have already established themselves as a class of tremendous athletic prowess—their football team actually scored last Friday night—the sophs also boast some tremendous physical specimens.

Not only will athletic prowess flow like wine, but there will also be a considerable amount of genuine enthusiasm, as the honor of both classes will be at stake. Also at stake will be money, as the loser finances the annual frosh-soph hop.

In order that chaos might not prevail, we are blessed with the services, as judges, of the all-wise, omniscient, infallible junior class officers. Customarily unreliable sources inform us that these judges will be fair, impartial, just, and not susceptible to bribes—even in the traditional form of liquid refreshment by the case. The judging should be among the more interesting aspects of this historical event.

For the information of those interested in competing in the Mudeo: the frosh can sign up through their section leaders and the sophs through their class officers. For the sophs, a physical, consisting of a blood pressure test, is absolutely mandatory, identical to those required for interhouse sports. For the frosh no physical is needed.

Egypt is the center of Rud-dock's theme, and a huge sphinx will stand at the entrance. It will lead into a corridor in which will be a mechanical belly-dancer and a mummified (Continued on page 5)

Editorials

Lock out

Parent's Day is particularly important at Caltech because it provides parents with a first-hand, closeup opportunity of viewing Tech life and answering questions they might have about the educational methods or policies of the school. Few parents come more than once and the large majority of these are those whose sons are presently freshmen. It is particularly these parents who are most curious and least knowledgeable about the esoteric ways of life and strife at Caltech.

For these reasons it is essential that the Parent's Day program be arranged to convey a broad yet complete view of Caltech's educational facilities, methods, and theories; of research being done at Caltech; of the Institute faculty; and of Tech's place in the world of science. It is just as important, however, that these parents receive every opportunity to view the campus and become at least partially acquainted with the environment in which their son is going to live for the next four years.

On Parent's Day this weekend several parents complained that many of the buildings were locked during the tours. In fact, the labs were also locked and, despite pleas from the tour guides, the custodian refused to open them for the parents. It is certainly good that the parents were allowed to see Winnet Center, where their sons relax, and Throop Hall, where their blue slips are made out, yet given a choice the parents surely would have desired more to see as much as possible of the actual educational environment for which they are paying Tech a very sizeable tuition each year.

Whether this was a result of Institute policy, personal whim, or merely an oversight, it is too serious to be passed over. Every effort should be made in the future to show visiting parents as much of the campus as possible, and exceptions to any prohibitive rules can certainly be made for that one day.

—J. C. Simpson
Richard Karp

B & G Surrenders

Last year we wrote a somewhat critical editorial challenging the efficiency of the "Physical Plant department under the Buildings and Grounds Committee (known as B&G to those in the in-group) and their unbelievable way of producing a web of tangled arguments and bills behind them."

Since that time, and with the cooperation of several people including E. E. Taylor, manager of the Student Houses, there has been considerable progress made, at least in theory.

First, House treasurers are billed now on a monthly basis for repairs that were made no more than six weeks previously. There should be no more Interhouse Dance breakage bills arriving late in May.

Second, students will be given a chance to make their own repairs on many minor breakage items. In case the student had not realized that there was any breakage, he will be informed before B&G is called in to make the repair. The main exceptions to this are that students will not be allowed to make plumbing and electrical repairs.

Finally, when B&G is called in to make a repair students will be informed beforehand about what time the repairmen will arrive to make the repair. It has been conclusively shown that when a plumber who has been sitting under a sink smoking a cigarette is asked just why he isn't working, it gets amazing results. In the past it has been somewhat difficult to do this, as a student had a very good chance of entering his room and discovering three electricians who had spent four hours replacing a light and were only half finished. Hopefully, in the future students can follow a B&G employee from the moment he enters the House and see just what they are getting for their money.

If there are any complaints, the student should contact the Student House Manager's office. If the complaint persists, see your friendly **California Tech** editors.

—Richard Karp
J. C. Simpson

NSF Grants Fellowships to Grad And Post - Doctoral Students

Graduate and postdoctoral fellowships will be awarded by the National Science Foundation with the advice of the National Academy of Sciences-National Research Council. Fellowships will be awarded in mathematics, physics, medicine, biology, engineering, anthropology, geography, economics, sociology, and the history and philosophy of science. The applicants, who will be judged solely on ability, will be required to take the

Graduate Record Examination, given on January 19, 1963. Applicants must be citizens of the United States.

Annual stipends are \$1800 for those who will be in the first year of graduate school; \$2000 for those in the second year of graduate school, \$2200 for those who will be in their last year of graduate school. The postdoctoral stipend is \$5000. Allowances are made for tuition, laboratory fees, travel, and depen-

Bill Abolishes Disclaimer Oath

President Kennedy recently signed a bill repealing the "disclaimer of subversive activity" affidavit as a requirement for National Defense Loans. This disclaimer clause, or loyalty oath, was opposed by many education groups, and was a topic of controversy at Caltech last year.

The disclaimer oath required a loan applicant to swear that he did not believe in, was not a member of, and did not support any organization which advocated the overthrow of the U.S. government by unconstitutional means. Some of the objections to the bill were that it was not effective, that it singled out students as special objects of distrust, and that a student should not have to sign such a statement in order to obtain educational assistance.

While the bill does abolish the disclaimer clauses in National Defense Loans and N.S.F. grants, it substitutes another legal measure. The bill states that any member of any Communist organization who applies for, uses, or attempts to use federal aid may be fined up to \$10,000, sentenced to up to five years in prison, or both. In addition, the N.S.F. and Office of Education can now revoke any graduate or research grant for reasons "in the best interests of the United States."

Navy Officers To Recruit Here

Officers from the U.S. Navy Recruiting Station in Los Angeles and the U.S. Naval Air Station, Los Alamitos, will be here November 2 in front of Chandler Dining Hall. They will be available to counsel interested students in the various officer programs in the U.S. Navy. Commissions are presently available in the fields of General Line, Aviation, Engineering, Supply Corps, Medical Service Corps, and other specialties. The team will also be available to counsel women students interested in the WAVES and Nurse Corps. The Officer Qualification Test will be administered on campus.

Y Election Poll

(Continued from page 1)

with 28 not voting. Once again, Richardson won, this time 140-14, with 20 not voting. Proposition 1A was approved, 163-8, with three again undecided, and Proposition 23 won 137-16, with 21 abstaining. Proposition 24 was voted down, 17-149, with 8 not voting.

Of all 295 people who voted for Nixon, 71 favored Proposition 24; of the 417 voting for Brown, only 30 favored it. Of those who were undecided, four of 54 were in favor.

Winners, with percent to total vote, were: Governor, Brown, 54%; U. S. Senator, Kuchel, 42%; State Superintendent, Richardson, 45%; Proposition 1A, yes, 85%; Proposition 23, yes 72%; and Proposition 24, no, 79%.

dents. The deadline for receipt of applications is December 17, 1962 for postdoctoral candidates and January 4, 1963 for graduate fellowships. Information and application materials may be acquired from the Fellowship Office, National Academy of Sciences-National Research Council, 2101 Constitution Avenue, N. W., Washington 25, D. C.

U of C Daily Editor Dismissed For Printing Critical Articles

Gary Althen, editor of the University of Colorado Daily, was fired recently by university president Quigg Newton. His dismissal came as a result of a controversy over several articles which appeared in the Daily.

Althen was under fire because he printed two articles derogatory to Senator Barry Goldwater and former President Eisenhower, and later an editorial favoring Red China's admission to the United Nations.

Both articles were written by

a junior, Carl Mitcham, who referred to Goldwater as "a fool, a mountebank, a murderer, no better than a common criminal." The second article by Mitcham was a letter in which he labeled former President Eisenhower a "futzer." Goldwater demanded that the university take some action in the matter, and Colorado Governor McNichols complained about the Eisenhower letter, recommending the Daily be put under the administration (Continued on page 4)

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ENGINEERS

PHYSICISTS

Campus interviews at California Institute of Technology will be conducted on November 8, to select qualified engineers and physicists to take part in the development of Stanford University's new two-mile linear electron accelerator.

The accelerator, being built under a \$114,000,000 contract with the Atomic Energy Commission, is designed to produce an electron beam of 10-20 Bev (billion electron volts), which can be increased to 40 Bev should it later prove desirable. Planned for completion in six years, the Stanford Linear Accelerator Center will then take its place among the principal international centers of particle physics research.

The Center presents an outstanding opportunity to work in highly stimulating intellectual atmosphere. It is situated on the 9,000 acre Stanford University campus on the beautiful San Francisco Peninsula. Engineers and Physicists working toward advanced degrees in the following fields are especially needed at this time: ■ ELECTRON BEAM OPTICS ■ KLYSTRON TUBE DEVELOPMENT ■ MICRO-WAVE ENGINEERING ■ MACHINE DESIGN.

To arrange for an interview on the above date, please contact your University (or Engineering) Placement Office. If this is inconvenient, write Mr. G. F. Renner, Employment Manager, Stanford Linear Accelerator Center, Stanford University, Stanford, California. An equal opportunity employer.

STANFORD LINEAR
ACCELERATOR CENTER

More Religion

(Continued from page 1)

readings. His words were supplemented by organ music and a small but competent choir.

In delivering his sermon, the rabbi reached for anecdotes and humor to be his guide lines. He spoke about the Jewish conception of God and the Jews' reaction to the works of God, using Einstein as a tie between Judaism and science. He mentioned that though Einstein was not particularly pious in the traditional sense of the word, he was a religious man according to Jewish standards because he communed with God and felt free to argue with Him. The rabbi proudly told the story of a man who asked Einstein whether or not he believed in the existence of God and received the answer that in the possession of Einstein's family was a very old grandfather's clock. The precision of the clock was excellent; in fact, it was a magnificent piece. Yet the clock was so old that no one could remember how the family had obtained it, nor who had made it. However the fact remained that it

had been created by someone.

After the services we were invited to the social hall to share with the congregation their Oneg Shabbat, a more social and festive welcoming of the Sabbath, including singing, the sharing of ideas, and the partaking of delicacies.

We drew Rabbi Sonderling into discussion with us, pulling from his prolific mind some of the finer points of Judaism. I believe all were impressed by his knowledge and eloquence of tongue, and were given a new understanding of this ancient religion and an added zeal for future events in "The Many Faces of Religion."

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Brewins



Before embarking on the main body of literature this week, Beak would like to award Soggy Foul Service the Medal of Honor, membership in the French Academy, the Order of the White Elephant, and the DEI Peace Prize for 1947 for achieving the Highest Agresti Number Known to Humankind (T.S., grad students.) A roll served Monday eventide was so heat-blasted as to be indistinguishable from a chocolate goody of some

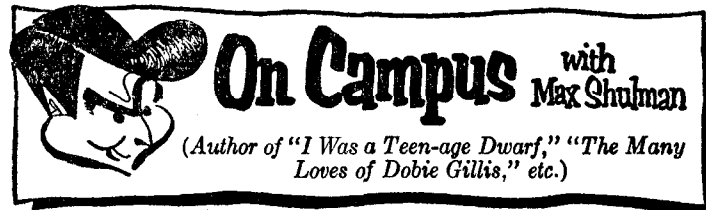
sort. Beak would also like to congratulate Boob Straw on the fine quality of the spider pudding he serves.

Ben Proves Lightning Is Electrical

Some members of Phage House (Hi, RLS) have been having trouble in the great city of love and money to the south. LummoX Beast, purveyor of funny spirit-pepper-uppers,

needed some. Hence, while visiting that fair metropolis, Fumblingwasp got some. However, the analogies to Fig Goody requested some palm grease to loosen their grip on Tekshoulders after a sudden shakedown. Three eagles changed hands. At last peek, Phageville was racked by a large internecine war over final deposition of the birds.

(Continued on page 8)



EAT, SLEEP, AND MATRICULATE

The trouble with early morning classes is that you're too sleepy. At late morning classes you're too hungry. At early afternoon classes you're too logy. At late afternoon classes you're too hungry again. The fact is—and we might as well face it—there is no good time of day to take a class.

What shall we do then? Abandon our colleges to the ivy? I say no! I say America did not become the hope of mankind and the world's largest producer of butterfats and tallow by running away from a fight!

If you're always too hungry or too sleepy for class, then let's hold classes when you're not too hungry or sleepy: namely, when you're eating or sleeping.

Classes while eating are a simple matter. Just have a lecturer lecture while the eaters eat. But watch out for noisy food. I mean who can hear a lecturer lecture when everybody is crunching celery or matzo or like that? Serve quiet stuff—like anchovy paste on a doughnut, or steaming bowls of lamb fat.

And kindly observe silence while lighting your post-prandial Marlboro Cigarette. Don't be striking kitchen matches on your



jeans. Instead carry an ember from the dormitory fireplace in your purse or pocket. Place the Marlboro against the ember. Light it quietly. Smoke it quietly. Oh, I know I ask a great deal! I know that one's natural instinct upon encountering Marlboro's fine flavor and filter is to throw back one's head and bellow great, rousing cries of joy. But you must not. You must contain your ecstasy, lest you disturb the lecturing lecturer. You can, if you like, permit yourself a few small shudders of pleasure as you smoke, but take care not to wear garments which will set up a clatter when you shudder—like taffeta, for example, or knee cymbals.

Let us turn now to the problem of learning while sleeping. First, can it be done?

Yes, it can. Psychologists have proved that the brain is definitely able to assimilate information during sleep. Take, for instance, a recent experiment conducted by a leading Eastern university (Stanford). A small tape recorder was placed under the pillow of the subject, a freshman named Glebe Sigafos. When Glebe was fast asleep, the recorder was turned on. Softly, all through the night, it repeated three statements in Glebe's slumbering ear:

1. Herbert Spencer lived to the age of 109 and is called "The Founder of English Eclectic Philosophy."
2. The banana plant is not a tree but a large perennial herb.
3. The Archduke Ferdinand was assassinated in 1914 at Sarajevo by a young nationalist named Mjilas Cvetnic, who has been called "The Trigger of World War I."

When Glebe awoke in the morning, the psychologists said to him, "Herbert Spencer lived to the age of 109. What is he called?"

Glebe promptly replied, "Perennial Herb."

Next they asked him, "What has Mjilas Cvetnic been called?"

Replied Glebe, "Perennial Serb."

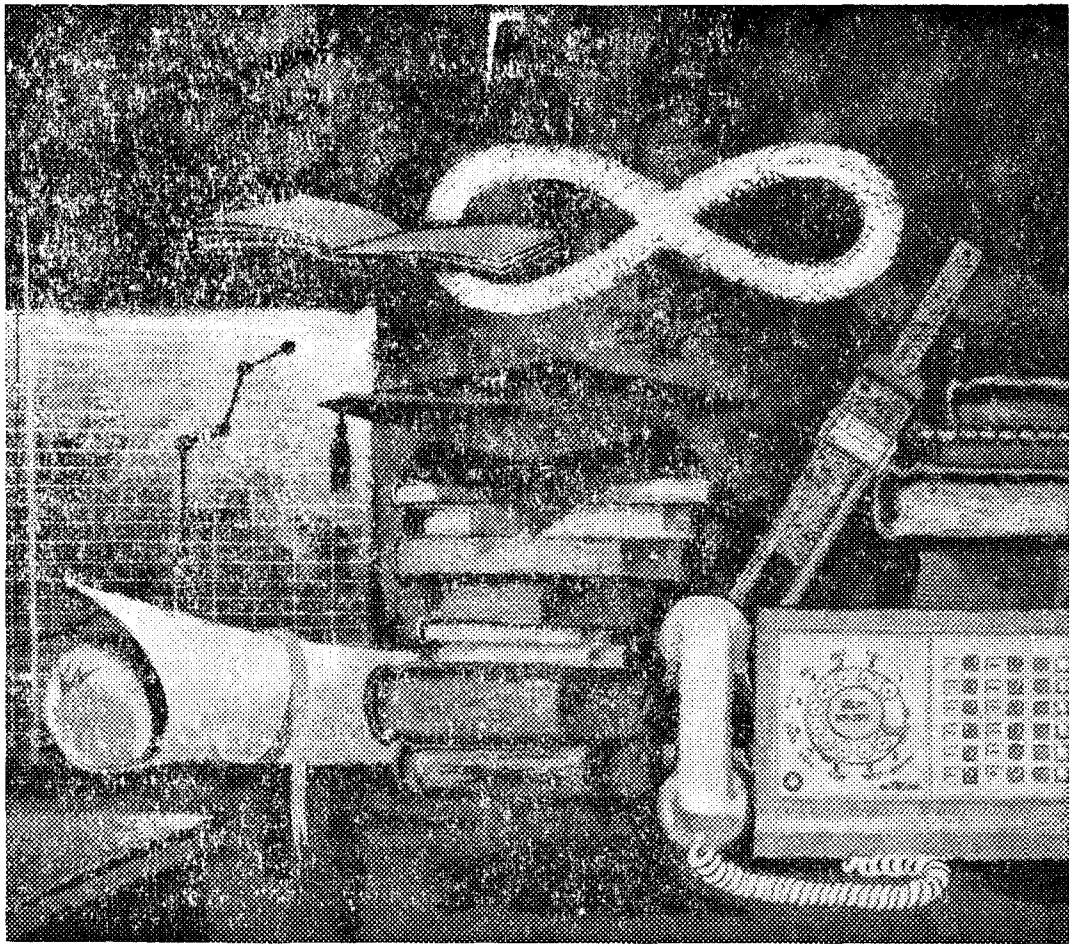
Finally they said, "Is the banana plant a tree?"

But Glebe, exhausted from the long interrogation, had fallen back asleep, where he is to this day.

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* * *

Glebe sleeps, but you, we trust, are up and about. Why not improve each waking hour with our fine product—Marlboro Cigarettes? You get a lot to like—filter, flavor, pack or box.



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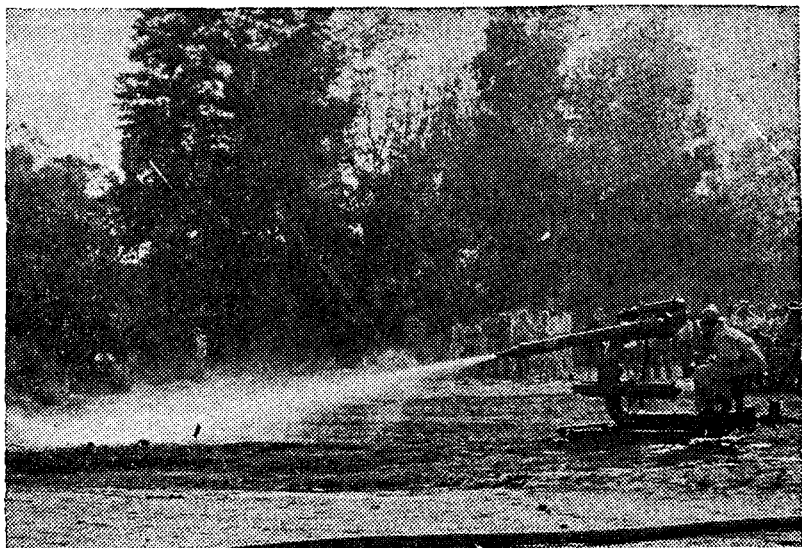
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—photo by sneak frosh

Sophomores test secret weapon for use in upcoming Mudeo duel Friday the 13th.

From Other Campuses

by Richard Karp

"On April 29, 1905, 15,000 wide-eyed spectators craned their necks to watch an ingeniously contrived balloon contraption ascend into the air towing an 'aeroplane' glider with a lone human figure dangling from the delicate craft." Thus begins an article entitled "Wright Brothers Not First To Fly" in the October 11 *Santa Clara*. Re-counting the flight, the article continues by noting that "This flight was only one of some sixty such experiments performed by Professor Montgomery from 1879 until his untimely death in 1911."

The article calls Montgomery the "Newton of the air," and the "Father of Aviation." It notes that "This great man of science is a part of the rich tradition of Santa Clara. He attended Santa Clara from 1874 through 1875 . . ." all of one year. The eulogy concludes by noting that all that is left to Montgomery's memory is ". . . a modest monument in front of the Ricard Observatory."

"A modest monument dedicated to the spectacular achievements of a man who changed the course of history." Nobel prize people, take note.

Football Problems

Other schools seem to have football problems, too. Dave Urbel writes in the *Rensselaer Polytechnic* on October 10: "First 82-6. Then 46-6. Twenty-one consecutive losses. What next?"

"What is wrong? . . . Simply stated, Rensselaer is not an athletic powerhouse."

On the other hand, the Georgia Tech coach writes in the October 19 *Technique* that "Georgia Tech is the only engineering school in the nation today that is playing in a major conference . . . One of the things you should realize and appreciate is the outstanding job your football team members are doing to keep up their studies at a fine engineering school like ours and still find time to play football." So, don't get smug.

No Parking On City Streets

No matter how far we travel, it always seems impossible to wander far from the *Santa Clara*. A familiar topic in the October 18 paper notes that "Bowing to pressure from irate local citizens, the Santa Clara City Council recently came to 4-2 decision to abolish a parking ordinance that . . . has provided that no car would be parked on city streets from 2:30-5:00 a.m."

"The only sound reason offered by the local police department for having the ordinance was so the 'The streets might be cleaned monthly.'"

"Fortunately the ordinance is

not in effect any more."

A Firm Maybe

The same issue of the *Santa Clara* has a classic answer to a classic question. The question was "Is Santa Clara spirit comparable to that of previous years?" The answer, from a political science major, reads in deep and decisive words that "Because school spirit is a condition that exists at the present, not the past or the future, and because it is judged by certain concrete factors, such as cheering and participation, and by a factor not so concrete, individual feeling, it is difficult to compare with previous years. It is obvious that the concrete factors per se have been dampened, but the loyalty of individual feeling grows with each new class and will never be dampened." Here is clearly the opinion of a man who knows what to say and spends few words saying it!

Editor Fired

(Continued from page 2)
of the journalism department.

The Board of Regents initially refused to change the status of the *Daily*, and President Newton originally defended the pa-

per to Goldwater, stating, "We have a genuine democracy on our campus. We have fought long and hard to achieve it and the fight has been against those who, like yourself, believe the function of a university is to indoctrinate rather than educate."

A statement was issued, however, later in the week by Newton, which ousted Althen as editor, claiming that he "had displayed a pattern of editorial irresponsibility that required his removal" as editor "in the best

(Continued on page 5)

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Monday, November 5

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THE NEW YORK TIMES / WESTERN EDITION

graduate rattle

BY FLETCH MURPHY

Mrs. Barbara Brown had the graduate Halloween party at her house last Friday, and the committee has been wondering how many bottles she found hidden around the house. When 2n bottles disappear in n minutes, one suspects piracy.

The party itself was very carefully planned with forty-five plus or minus two girls slated for invitations. With a number of the girls bringing friends, and a blanket invitation going out to an entire school by a grad student who didn't know there was a committee, girl attendance pushed sixty, causing emergency invitations to be sent to the Caltech undergraduate houses, who responded immediately to the call, bringing the odds even and helping to make it a five star affair. These are the kind of emergencies we should have more often.

Summer Heat?

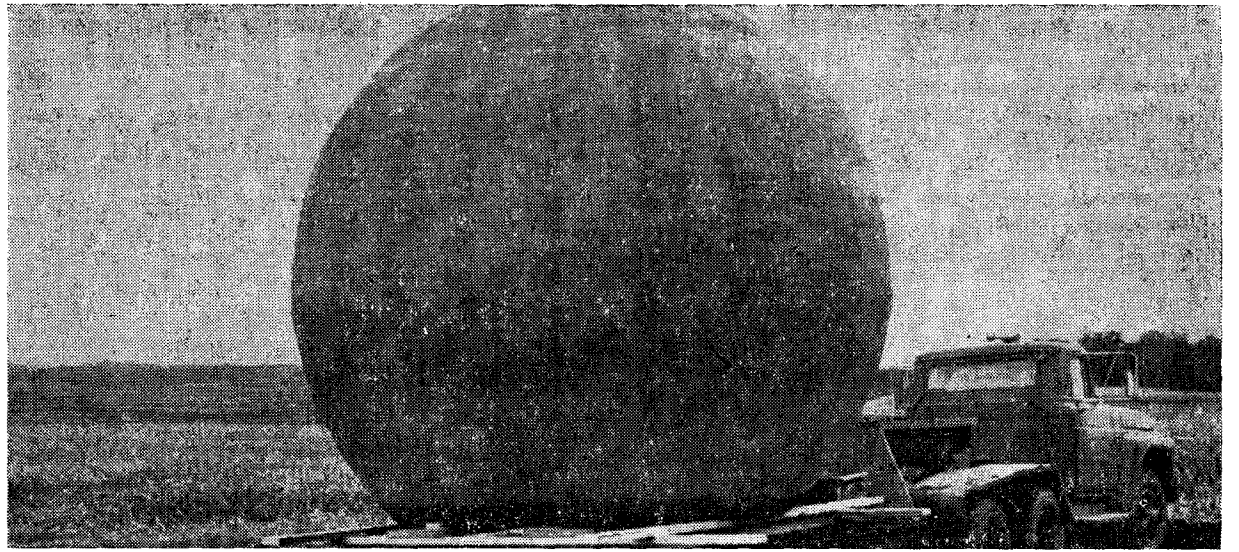
Back around Indianapolis, it usually gets warm again around

late October (up above 70 degrees) and it's known as Indian Summer. This weather crowding 100 degrees is absurd. Anyone calling this Indian Summer is from Bombay, not Indianapolis.

Trash At MIT

Another problem annoying the graduate kitchens is trash disposal on the weekends. If the U. S. had turned out arms in 1942 like these kitchens churn out trash, World War II would have lasted only six months. At MIT they have developed an item called an infinite potential well which they use quite successfully for the instant elimination of anything undesirable. It might be a good idea to look into the installation of these here.

Students and graders alike dread mid-terms, but what are you going to do when a professor gives you three days warning for a mid-term and invites you to a cocktail party at his home the same evening? It happens.



—photo by Linus

The Great Pumpkin after its capture by Tech ROTC Squadron yesterday afternoon, when it attacked Larry Rabinowitz on the Olive Walk. Rabinowitz has offered to donate it to any House having a Halloween Party this weekend. If none claims it by then, he will turn it over to Saga, which is eagerly planning a new experiment in mass-produced pie.

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E & S Asks For Student Articles

Undergraduates are invited to submit entries to be published in **Engineering and Science**, Caltech's alumni magazine, in the student life section. Articles should be provocative or amusing or both.

In the past, articles have been written by one or two people throughout the year. There is \$15 paid for each article, which is to be of 750-1500 words length.

Students who are interested should contact Ed Hutchings in the **Engineering and Science** office in Lower Throop.

Editor Dismissed

(Continued from page 4)

interests of the university." In addition Mitcham was called up before a university discipline committee and charged with conduct unbecoming a student. The committee, however, absolved him of the charge.

Althen's dismissal created a strong reaction in favor of the editor. Over 500 students picketed Newton's home, the student body president expressed concern that Newton's action "may have harmed the basic philosophy of student government," and a member of the Board of Regents stated that there was no academic freedom on campus. In addition, four top staff members quit when an interim editor was appointed and the rest of the staff threatened a walk-out if Newton's position is not changed.

More Interhouse

(Continued from page 1)

Lola, the Ruddock inter-alley trophy. This corridor will lead into the lounge, simulating a pharaoh's tomb and decorated with hieroglyphics. Also in the lounge will be a sarcophagus which is planned to open periodically and envelope itself in flames.

A Norse fjord complete with an enormous mountain, waterfall, a Viking ship, and appropriate scenery will make up Blacker's Norse theme. The lounge will be converted to a Viking dining hall.

Ricketts has yet to come up with a theme, but a House meeting tonight will hopefully produce some results.



We went to the mountain to
make 1963 Ford-built cars
go 30,000 to 100,000
miles between major
chassis lubrications

Quite a task faced Ford Motor Company engineers when they set out to eliminate the traditional trip to the grease rack every 1,000 miles.

Like Mohammed, they went to the mountain—Bartlett Mountain on the Continental Divide in Colorado. More molybdenite is mined there than in the rest of the world combined. And from molybdenite ore comes the amazing "moly" grease that helps extend the chassis lubrication intervals for Ford-built cars. This grease sticks tenaciously to metal, stands up under extreme pressures and resists moisture, pounding and squeezing. It is slicker than skates on ice!

New, improved seals were developed. Bushings, bearings and washers of many materials were investigated. Slippery synthetics, like nylon and teflon, were used a number of new ways.

The search for means to extend chassis lubrication also led to New Orleans—where experimental suspension ball joints tested in taxicabs in regular service went two years without relubrication.

It took time. And ingenuity. But the effort paid off when Ford-built cars were the first to build in chassis lubrication good for 30,000 miles or two years—whichever came first.

Another assignment completed—another "Ford First" and another example of how Ford Motor Company provides engineering leadership for the American Road.



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SPORTS

Gridders Bow to Cal Lutheran, 13-6

With less than four minutes left to play, Cal Lutheran shocked the Caltech varsity football team by scoring two quick touchdowns for a 13-7 come-from-behind victory at Oxnard last Saturday. Caltech played well enough to win, but pass interceptions and fumbles cost them the game.

For their first score Cal Lutheran intercepted a pass deep in Caltech territory, with five minutes left in the game. A fifteen yard penalty against Tech put the ball on the seven yard line. Three plays later Cal Lutheran pushed the ball across the goal line to knot the score. Their kick for extra point was wide.

The Beavers took the kick-off and had the ball for one play before losing it on another pass interception. This time the Cal Lutheran quarterback uncorked a beautiful 40 yard pass to his right end for the touchdown. The play was well covered as there were two Tech defenders there, but the end made a fine over-the-shoulder catch and without breaking stride ran into the end zone. Cal Lutheran was successful on their PAT to make the final score, 13-7.

The Beavers' only touchdown came early in the second quarter. After taking the ball on a punt, Caltech drove down to the 10 yard line where Bob Liebermann scored on a run around left end. The kick failed as Caltech took a 6-0 lead.

The Beavers missed several other scoring opportunities, due to pass interceptions and fumbles. On one drive Tech had the ball on the 8 yard line when a Cal Lutheran back picked off an interception. In the first half, Caltech didn't punt once, but lost the ball five times.

Frosh Gridders Lose To CHM To End Season

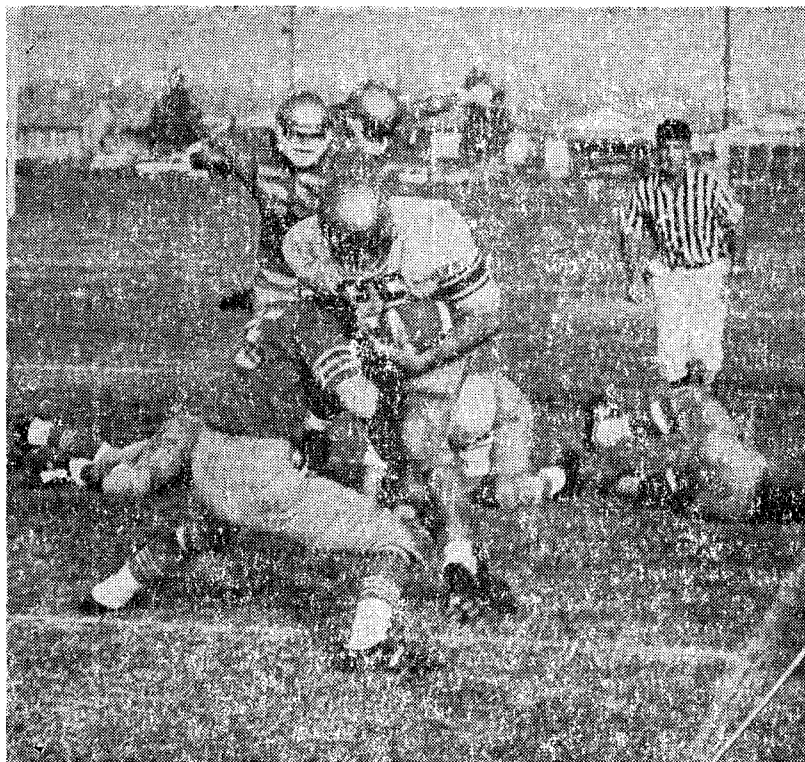
The frosh football team closed out its season last Friday afternoon with a 36-6 loss to the Claremont-Harvey Mudd frosh. The game was unique in that the Beaver gridgers scored their annual touchdown.

Caltech received the opening kickoff and was stopped after having made a first down. After taking the punt CHM succeeded in grinding out a touchdown with the longest gain the the series being fifteen yards. CHM dominated the first half with the score 22-0 at halftime.

Late in the third quarter Caltech's Lee Myers intercepted a pass on the Beaver's 18 yard line. From here the team started a drive with Lee Wallace and Marty Westbrook sweeping the weak end for two first downs. Then the line sprung Westbrook for a 60 yard touchdown run. A pass for the two point conversion failed. Claremont scored two touchdowns in the second half to give them a 36-6 victory.

The Beavers dominated the first half as they rolled up eleven first downs on short runs of five to ten yards by backs Jon Evans, Barry Denius, and Lee Peterson. The Caltech defense was superb as Cal Lutheran could get only one first down in the first half.

The line led by Guy Jackson, Joe Bocklage, and Tom DeKlyen virtually halted the Cal Lutheran running game. The pass defense was much improved over last week, and it was not until the second half that Cal Lutheran could connect on their passing. Leon Thomsen made two pass interceptions, one deep in



—photo by Ken Brown

Caltech's Jon Evans runs through host of Cal Lutheran players on 8 yard gain around left end.

Caltech territory to halt a Cal Lutheran threat.

On Saturday morning Caltech hosts L. A. Pacific at Tournament Park. Cal Lutheran beat

this team two weeks ago by a 20-12 count. L. A. Pacific relies on a passing combination which ranks as one of the best in the nation among small colleges.

Pomona Runs Over Harriers

The varsity cross-country squad fell to a well-balanced Pomona team, 18-38, in a race at Mt. San Antonio College last Friday afternoon. Only one Tech runner, Larry Weaver, was able to break into the top five as he took third in 19:42. Tom Pollard of Pomona breezed over the hilly 3.3 mile course in 19:21 to win first place honors. Other place winners for Caltech were Tom Oberjat, seventh, Jim Eder, eighth, Louis Corl, ninth, and Dennis Holt, eleventh. The average time for Tech's first five finishers was 20:46.8, and the team's time spread was 130 seconds.

In the two-mile freshman race, Tech's one-man team, Jerry Simpson, took third place, but the meet was forfeited due to lack of a full squad. The freshman race was won by McGarr of Pomona, a younger brother of former Tech cross-country runner Art McGarr.

Tomorrow the teams travel to Claremont to meet Claremont-Harvey Mudd.





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CAMPUS INTERVIEWS

NOVEMBER 6

Soccer Team Loses, Blows Pennant Hopes

The Caltech soccer team nearly killed their chances for a league championship as they lost to Pomona in a game that saw the Beavers score three times yet end up on the low end of a 2-1 score. The Caltech defense, in trying to control the ball, kicked it past their own goalie for two Pomona tallies.

The play in the opening minutes was slow, but it soon became evident that the home defense could hold the Pomona line. The Caltech offense threatened on several occasions before disaster struck. First, one of the Beaver defensive halfbacks ran across the goalmouth and accidentally kicked the ball into the net. Moments later a shot from a Pomona forward was deflected out of the reach of the goalkeeper by another half-

back for the second score. At the half the score was 2-0 in favor of Pomona.

Caltech attacked following the second half kickoff, as Basil Kendemelidis scored after only eight minutes. The Beavers' offense constantly was deep in Pomona territory during the second half but failed to score. The defensive line, except for two disastrous twitches, played well, allowing a dangerous Pomona front line to take only five shots in the game.

On Saturday morning at Tournament Park the junior varsity met with a strong Azusa team and lost 4-1. After five minutes of play Azusa went ahead. Soon after, Art McGarr equalized the count, but Azusa regained the lead before the half. In the second half Azusa added two more goals for a 4-1 victory.

Next Saturday afternoon the varsity and junior varsity travel to Biola. Both Caltech teams easily topped the Biola teams in games earlier this season.

Blacker Victor In Discobolus

In a hard fought basketball game Tuesday, Blacker defeated Ricketts to take possession of the Discobolus Trophy. Blacker's Steve Teigland was high scorer for the game in leading his team to a 34-25 victory. It was a tight game in the first half as Blacker came off the court at halftime with a slim 21-19 lead, but they caught fire in the second half to defeat the Scurves handily.

Two weeks ago, Ricketts had gained the trophy by beating Lloyd in a softball game, 6-0. John Kessler pitched brilliant ball for Ricketts and was backed up by a fine defense that made only one error in the game. The Ricketts batsmen showed good consistency as they scored runs in all but the sixth inning.

Page was supposed to be next in line to meet triumphant Ricketts, but they forfeited the match for some obscure reason, passing the challenge on to Blacker.

Discobolus Standings:

House	Trophy Points
Lloyd	10
Ricketts	4
Blacker	4
Dabney	1
Ruddock	1
Fleming	1
Page	0



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P-CN

Emerymen Lose to OCC, Beat Redlands

BY DAVE OLLIS

The Beaver varsity water polo team dropped a Tuesday contest to Orange Coast College, but evened the week by downing Redlands and thus remained undefeated in league play.

Orange Coast scored twelve goals to Tech's six to take the first match. The locals began the game with a swimming and breaking loop offense in front of the Orange Coast goal. When this method failed to produce points, Tech moved to the sitting holeman attack. All six of the home tallies were scored by Bruce Chesebro. The lack of shooting attempts by players other than Chesebro hurt Beaver chances, and below average passing performances by the locals aided the visitors who recovered the poor throws at least half a dozen times.

Friday, in the league's acoustically worst indoor pool, the traveling Emerymen defeated Redlands' varsity poloists. Again, as in the Tuesday game, Tech opened the attack with a rotating circle offense. This plan succeeded as Mike McCam-

mon scored twice, and Pat Manning and Chesebro scored in the first quarter to give the Beavers a 4-1 lead. During the second period, while shooting at the deep end goal (which is normally an advantage), the squad were held scoreless by Redlands and the half ended with a 4-2 standing.

In the third quarter, Tech came alive again as Jim Shaw tossed in a point and Chesebro potted three more to give the team an 8-3 lead. The last Beaver tally in the fourth quarter originated when Chesebro fired a shot which was deflected off the goal into the water. Tired, but still alert, Jim Shaw swam past his guard and shot-putted

the loose ball into the goal. Tech's offense was hurt considerably in the second quarter when Dave Seib left the game with a split eyebrow.

The Beaver frosh played a fairly even game with the Redlands junior squad until the half, then bombed their hosts with nine in the second half to win 14-4. The frosh were aided in their victory by a Redlands man who accidentally scored a goal for Tech to further demoralize his teammates. Everybody got into the act as John Walter netted five, Richard Nielson piled up six, and Walt Davis and Pat Miller tallied one apiece.

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Brewins

(Continued from page 3)

Another Phage, to be precise, a Phagephrosh, discovered that he possesses an unusual talent: upon application of eye shades and a sneer, his age appreciates plus ten. Concentration of EtOH is said PHph's veins is now significantly higher.

IHC-Faculty Massacre

Beak has heard a rumor that the beloved IHC and that equally beloved body, the Tekfaculty, are planning on staging a gigantic Mudeo of their own to settle the burning question of who pays for the coffee-hour dough-

nuts. The speculation arises about any possible tactical advantage one group will have over the other. The IHC is 100% Tech undergrads, all skilled in the devious arts congruent with such a post (how else would they become House Presidents?). Of course the Faculty has a significantly higher ratio of PhD's to heads; it is likewise more skilled (presumably) in the fine art of mapping people into n-space, n greater than or equal to Aleph-null; it will also help the faculty that they outnumber the IHC about 50:1. TS, IHC.

Andrew Carnegie Back From Death

Floyd House has set up a philanthropic fund of varied purposes. Its latest application is toward the removal of all fuzz from Mushyloaf's pedal extremities. Another Floydboy, Hurdy Gurdy, had the ill fortune, alas, of being stuck with an utter pig at the last exchange. Experimental evidence has convinced random trolls that said sus is imbued with the tenacious quality of a superior grade of glue.

UGH!

Certain men in Redfowl may

have indulged in certain interesting Freudian fancies the last few weeks. Samuel and the Monger, by mutual manipulation of the quizzies, slowly lowered into the abyss of SIN their

musical composition. Canine, it turns out, had fears for transportation during Initiation Week. Hence he carried palm grease in a most disgusting area. Cursed be thee, oh Canine.

BRITISH SCIENTISTS

Representatives of Imperial Chemical Industries Ltd. will be visiting the campus on November 13 to meet and exchange information with post-graduate or post-doctorate scientists from Britain or the British Commonwealth who would like to consider careers with I.C.I. in the United Kingdom. Arrange an interview with your Placement Officer.



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ON-CAMPUS INTERVIEWS
NOVEMBER 7

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