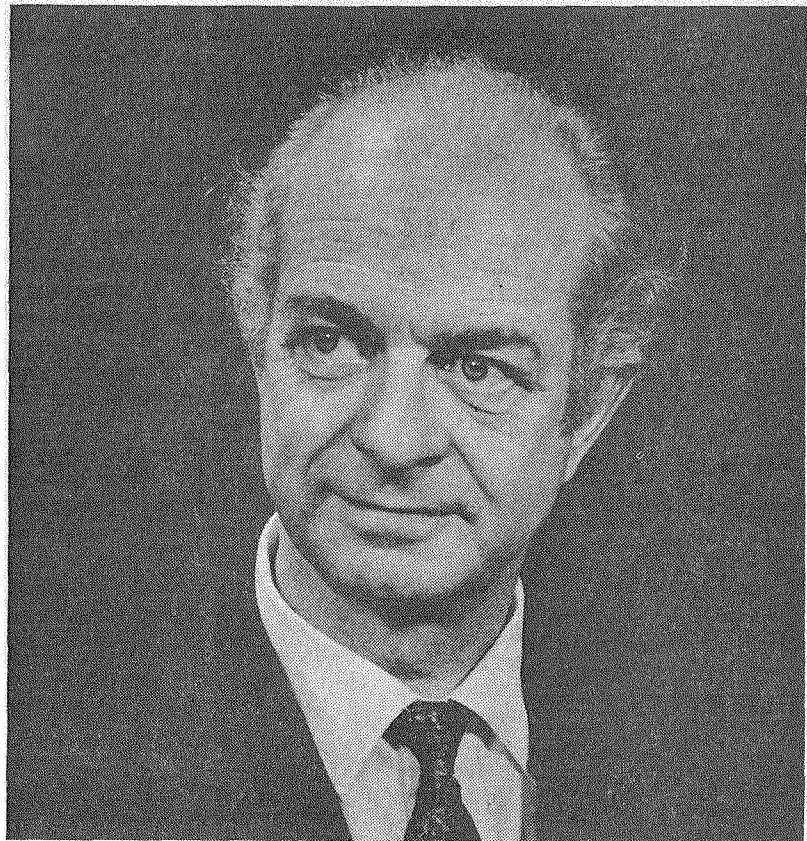


# Pauling Awarded Nobel Prize



Linus Carl Pauling, Ph.D., Sc.D., L.H.D., U.J.D., D.H.C., D.F.A., LL.D., Nobel Laureate (twice).

—Photo courtesy of Caltech News Bureau

## Dabney Lounge Site Of Healey Lecture

In what was perhaps one of Caltech's most lively discussions since Mr. Morphew spoke last year, Mrs. Dorothy Healey spoke to a packed Dabney Lounge on "Why I Am A Communist."

Mrs. Healey began with a John Stuart Mill eulogy of freedom of thought and then proceeded to expound her views upon the capitalistic system.

She struck out against a society that relegates man to a neglected and despicable member, and maintained that today's "liberty" to stand up and protest injustice is not enough to protect man. She looked to the future America when "production will be for man, not man for production."

In reply to "anti-Communist hysteria," Mrs. Healey said that adoption of the far right—election of a Goldwater—would result in "an increase of violence both domestic and international . . . a degradation of society."

She spoke not only of a future Socialist America but also of an immediate program of reform—"integrate today, and let the minds and hearts of the white South change slowly."

## Tech Frolic Brings Rain

BY TIM HENDRICKSON

When Nero set fire to Rome he wasn't as plagued by the local authorities as was Caltech last Friday after downing UCR 14-0. But after the wary police were detained by an ingenious decoy action on San Pasqual Street, the traditional victory pyre managed to blaze for eight minutes before finally succumbing to the hose of the Pasadena Fire Department. This extinction was accomplished, however, not without student opposition; the firemen were barraged with numerous water balloons, and at one point the fire hydrant itself had been turned off.

"There'll be bad news for you next time," growled a burly fireman as he swirled the innocent bystanders with his fire hose: "this sort of thing is against the law."

(Continued on page 3)

Dr. Linus Pauling, professor of chemistry and past Chairman of the Division of Chemistry and Chemical Engineering, received his second Nobel Prize one week ago today, the Peace Prize for 1962. Dr. Pauling, a vigorous opponent of nuclear testing, also won a Nobel Prize — in chemistry, for his research in the nature of the chemical bond — in 1954; the Peace Prize award makes him the first person in history to receive two individual Nobel Prizes.

The decision to award the Prize to Dr. Pauling was made by the Nobel committee of the Norwegian parliament, but the reasons for the award will not be stated until December 10 of this year. On that day, the anniversary of Alfred Nobel's death, all Prizes announced this year will be awarded in a ceremony at Oslo University. Dr. Pauling's cash award of \$49,465 comes from interest on the \$9 million bequest left by Nobel, the inventor of dynamite, when he died in 1896.

### Curie Loses Distinction

The 1961 Peace Prize was awarded posthumously to Dag Hammarskjold, and the 1963 Prize is being awarded jointly to the International Red Cross Committee and the League of Red Cross Societies. The only other person to receive two

Nobel Prizes was Mme. Marie Curie, who received one for chemistry in 1911, and another jointly with two others for physics in 1903.

Dr. Pauling has long been outspoken in his concern about atomic and thermonuclear weapons. During World War II he was a member of the explosive division of the National Defense Research Commission and he was later with the Office of Scientific Research and Development. As early as 1950 he said, "This problem of an atomic war must not be confused by minor problems, such as communism versus capitalism." In 1952 he was refused a passport by the State Department because he was suspected of being communist, although he denied it under oath.

The first H-bomb explosion convinced him that its destructive force made wars impossible, the danger of such explosions coming only from fall-

out. He has often disagreed with AEC scientists about the level of fallout that is dangerous. In 1960 he was almost cited for contempt of Congress because he refused to name for the Senate internal security subcommittee people who had helped him circulate a petition for an international nuclear test ban among 11,000 scientists from 49 countries. The subcommittee accused him of "a consistent pro-Soviet bias".

### Recognized by President

Regarding the award to Dr. Pauling, president DuBridge said, "The Nobel Peace Prize is a spectacular recognition of Dr. Pauling's long and strenuous efforts to bring before the people of the world the dangers of nuclear war and the importance of a test-ban agreement. Though many people have disapproved of some of his methods and activities he has, nevertheless, made a substantial impact on

(Continued on page 4)

## Initiation Takes Toll; Sophs Rout Freshmen

BY ALAN CAMPBELL

Observers report no casualties and two wounded in the recent initiation rites at Caltech.

Most of the campus and town seems also to have survived major damage.

Offense forces of sophomores and miscellaneous upper-classmen, led by pledgemaster (listed below for benefit of still-wet frosh), reported complete victory over "incompetent frosh"; the wetness of six out of seven pledgemasters (exception: Liebermann) seems to indicate recoup of some losses, despite kidnapping rules.

Frosh seem to have come out far ahead in Ricketts, partly be-

cause there are 32 freshmen and 21 sophomores. Frosh in Ricketts did few stunts but sophs got even during the traditional Ball Pall ceremony; the only authorized fire hose treatment on campus during initiation took place then.

### In Blacker

Upperclassmen fared better in the other old houses. Pledgemaster Pete Mazur saw to it that frosh in Blacker had little time for seditious activities against their superiors. Tim Hendrickson, one of the more troublesome and revolting frosh, was sent to Pershing Square in Los Angeles with orders to rant and rave against anybody and everybody, specifically by accusing everybody of communist activities. Hendrickson had such a natural facility for denouncing Kennedy's Catholic dynasty that Blacker had to perform a military arrest to avoid the paddy wagons.

Blacker also attempted to organize a mammoth march on Security National Bank, to replenish the diminished supplies of frosh change. Due to adminis-

(Continued on page 4)

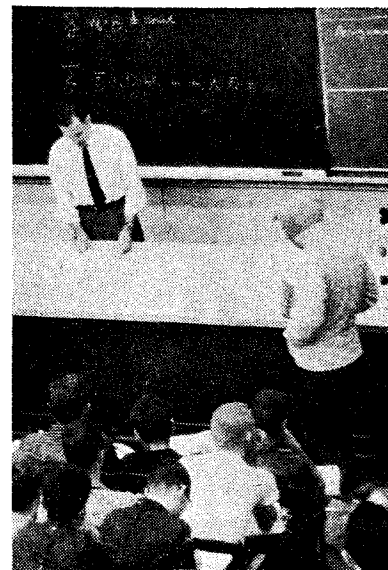
## Panel Discussion Concerns Rotation At Dinner Forum

Rotation and what it had done was discussed at the first Y Dinner Forum last Tuesday. Six past and present House presidents and faculty members took up the topic in a panel discussion which brought out several different views on rotation.

Little agreement was found over what rotation had accomplished. Bill Schoene, president of Fleming, said that he thought rotation increased House spirit. Bob Schmulian, past president of Ruddock, stated that rotation had been set up with two objectives. First, it was to provide an opportunity for frosh to meet upperclassmen. Secondly, it was thought that it would decrease student apathy. Richard Stanford, R. A. of Fleming, stated that he didn't know whether apathy or no rotation came first.

Dave Hammer, president of Ruddock, thought that rotation had given the Houses the frosh that they wanted and the frosh a House that they wanted. Roger Leezer, past president of

(Continued on page 2)



—photo by Jim Sharrard

Ruddock frosh wears snowshoes to Freshman Physics Lecture during Initiation Week.

## Notices

### SENILE SEVEN SEEK SOME MORE

The famous Senile Seven amateur soccer team is holding another meeting this Saturday, 9:00 a.m., in Tournament Park. All are welcome.

### IEEE MEETING

On Wednesday, October 23, Dr. Middlebrook will address the IEEE on the subject of "Problems in the Control of Solar Battery Power Supplies for Spacecraft." The meeting will be held at 11 a.m. in 142 Keck.

### ATHLETES TO BE MEASURED

All men out for varsity football, cross country, soccer and water polo must meet in Ruddock Lounge tonight at 7:15 to be measured for letter sweaters or jackets. Even if a man is not sure he will letter, he must be measured or if he does letter he won't be able to receive his award at this year's sports banquet.

### SAILING CLUB MEETS

The Sailing Club will meet next Tuesday at 7:00 p.m. in Clubroom 2 at Winnett Center.

### MOONWATCHERS

Caltech Moonwatch, the campus satellite tracking team, needs more observers. They were third in the world last spring in total observations and desire to get on top this year. Anyone is welcome; no experience is needed. See John Rouse, 223 Ruddock.

Editorials

IHC Jurisdiction

There is a persistent complaint on campus that control over the Student Houses, though more liberal than at most Schools, is still more strict than it should be at Tech.

Every time a new ruling is made, or a penalty imposed for violation of an existing one, the controversy becomes much worse, especially in the stricken House, and the bitterness that is churned up accomplishes nothing but bad feelings on the part of everyone concerned. In every dispute, it seems, both the Master's office and the complaining party have an inexhaustible source of excellent and irrefutable arguments to support their positions.

Fortunately there is available what seems to be a reasonable solution to the problem, or one that should at the least considerably improve the present situation. Dr. Huttenback has offered to give the IHC original jurisdiction over the Houses in matters of rules, enforcement, and penalties similar to the UCC's jurisdiction within the Houses. This is not a new idea, as these same powers were exercised well and effectively by IHC's of old, until abuses of the privilege and a succession of weak IHC's led to the gradual loss of this jurisdiction.

Under this plan the Master will be a check on the IHC, but Huttenback has said that he would probably not step in except in cases of gross neglect of duty, and that IHC imposed penalties would be acceptable to him.

The proposition is certainly worth a try—it can't make the situation worse and it could even solve a large portion of the problem. A strong, effective IHC should have little trouble exercising jurisdiction, and the advantages of having rules and penalties student-imposed and of having each House represented are obvious. The **California Tech** strongly endorses this idea and encourages the IHC to accept this offer as soon as possible.

—J. C. Simpson  
Don Green

In an article on the master plan in the Oct. 2 issue of the **TECH** it was stated that 2.37 million dollars was spent in the business year ending 1962 on land. This was the TOTAL value of Caltech land holdings as of that date; the amount spent during the 1961-62 year was \$30,000.



THIS AND THAT

One of the more amusing behavior patterns of our society is its way of staunchly barring things it calls taboo at the front door, and bringing them in the window at the back. For the enterprising businessman who wants to peddle some delicious vice, the trick is simply packaging. You don't call your vice by its real name, you surround it with respectable associations, perhaps imply that it's for mature adults only, or real he-men, or whatever. A famous example is the campaign which introduced American women to smoking; a typical ad would show a well-dressed lady saying to her handsome, smoking escort, "blow some my way." More recently, **Playboy** is taking the intellectual and status approach; add a little Hemingway and J. Paul Getty, and presto, the girlie magazine is a part of middle-class life. The movies have been on this highroad to riches for some time. The social-criticism bit has awakened a great deal of profitable interest in certain kinds of human behavior; but still more clever are the good-clean-fun dirty movies, which even **Good Housekeeping** can accept. These little ticklers — Dwight McDonald calls them "sexless sex comedies" and men-

Dean of Freshmen Foster Strong has announced that all freshman sections should elect their Section Leaders no later than Friday, October 18, and that all duly elected Section Leaders should report their election to the Office of the Deans, 116 Throop, as soon as possible, if not sooner.

By Steve Schwartz

tions Doris Day for special condemnation — promise a good clean show that Mrs. Bored Housewife can bring the kids to; and yet what really gets Mrs. BH to pay her admission is that tingly suggestion of sex she can feel in the background. Some classes are harder to bring around than others; but I'm sure Mrs. BH is making fine progress, and will be educated up to the next level in a few more years.

(Continued on page 6)

Coed Graduates Set Tech Record

Girls have set a new record at Caltech this year, 17 of them have enrolled in graduate school. The unmarried girls outnumber the married ones by one, and the girls are enrolled in many areas throughout the Institute. Many of these areas are not normally thought of as something that a young women would go into.

Biology drew the most votes from the women with five of them signing up for advanced degrees. Chemistry was next with four girls, followed by aeronautics and physics with three a piece. Mathematics and astronomy each have a woman too.

The girls are ambitious; out of seventeen 12 are trying for the Ph.D., two want to be Aeronautical Engineers, and three others are working for their M.S. Degrees.

One thing remains unknown, though: why would any girl come to a school with 1300 men?

Dutch Students Visit Tech On College Survey

BY WALLY OLIVER

Mr. Cris Van Severter and Mr. Jan Kanters, representing the Netherlands Student's Council and the Netherlands government, made a four day study of campus life. Their project is to investigate the American college system, so they may help institute a like university in the Netherlands.

They explained that a European university is purely academic with no provision for student housing. Also there is no specific time to graduate. A student just works to his examinations for his degree. The Netherlands government is planning a new technical institute and wishes to provide living facilities for the students. There is some opposition with this among the Dutch students. They feel that if they live "on campus" the university will make rules in contrast to the complete freedom they have now.

Cris and Jan, as they became known here, have visited M.I.T., Cornell, Boston U., R.P.I., Northwestern, and Berkeley among others. They said that they liked the American system. The idea of a fixed curriculum helps the "weaker" student. They commented that they especially liked the Caltech housing system of allowing maximum freedom and student government. Coming during initiation, they commented that the initiation they were used to was much stiffer than the one they observed here. Cris and Jan feel that the campus system encourages intellectual and social contact. From here they will travel to El Paso, Texas, and Florida University.

Yearbook Highlighted

BY BOB LEVIN

The 1964 Big T includes many features of special interest. One of these is a full color panorama of the grad houses which will fill the inside cover pages. Also, sections are planned picturing Booth Center and Beckman Auditorium. An informal photographic essay of the campus is also planned by Ed Bloomberg and will appear in a special section early in the book. Another of these features is planned by photographer Ray Weiss, who is handling the "Outstanding Campus Personalities" pages, and will include many of the faculty members who enjoy a particular interest from the undergraduate student body.

Most important of these planned features is the expanded Houses section designed to show the increased importance of the student houses upon student life. The photography for this section will depend primarily upon individual house collections, but will be supplemented with shots by the Big T staff.

The Activities and Sports sections will benefit from the delayed date of the April 14 final deadline. Other deadlines are similarly delayed. More records of this year's sports season will be included, thus eliminating an irritating omission. The Activity Hour programs are again highlighted within the Activities section.

With this emphasis upon our many emerging personalities, the new Big T is growing.

ASCIT Bites Back

by

Bob Liebermann  
ASCIT President

Several years ago a major de-emphasis of the football program was initiated at Caltech. Fortune sank and Tech tumbled out of the collegiate "Top Ten," although it still remained nationally-ranked (612th out of 620 in the 1963 pre-season prospectus). In the years of the big freeze, the initial victory of each season was celebrated by a roaring bonfire on the corner of California and Arden—enough heat was generated to thaw even the most unspirited heart.

In this fine and admirable tra-

dition, the recent victories of the '63 Tech team have been commemorated by flaming holocausts which recalled the denizens of the PPD and PFD from the deep abyss of unemployment. As a member of the team, I can assure you that such warm congratulations are very gratifying.

However even a very fine tradition can be tainted by misuse. Public safety, campus and community opinion, and common sense all speak out against stretching a good thing too far. It is my opinion, therefore, that further celebrations of this type this year are out of order—this by NO means implies that victories are out of order! (Note, however, that the heart of even the sternest ASCIT President can be melted by a victory over arch-rival Oxy). The Board of Directors and I would appreciate the cooperation of each student to preserve our hallowed tradition.

Rotation Discussed

(Continued from page 1)

Lloyd, thought that rotation didn't do enough to make the effort worthwhile. Bruce Carter, president of Blacker, went along with this attitude, and added he didn't think that the frosh got much choice.

John Andelin, past Master of Student Houses, said that any preference shown by numbering houses would lead to the problems of the old system. Tom Latham suggested a system where a frosh could change Houses after about half a year. Andelin said that this system actually existed up to last year and that it caused hardship for all concerned. Art Johnson, president of Blacker, thought that rotation caused a great deal of artificiality.

The audience seconded many of the ideas presented by the panel, and there were, in fact, people that agreed with all of them. When the panel finally concluded it was found that there was very little agreement on anything, except that rotation did generate a great deal of House interest for at least one week. The twenty people that showed up for the first meeting of the Dinner Forum at least had their areas of disagreement cleared up by the discussion.

CaliforniaTech

Published weekly during the school year by the Associated Students of the California Institute of Technology, Incorporated.

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California Tech, 1201 East California Blvd., Pasadena, California.  
Member of The Associated Collegiate Press  
Second Class postage paid at Pasadena, California  
Printed by Bickley Printing Co.  
Represented nationally by National Advertising Service, Inc.  
Subscriptions: \$1.50 per term, \$4.00 per year. Write: Circulation Manager.



# New Computer Center Will Serve Many Campus Needs

**BY ANDY BEVERIDGE**

Booth Computing Center will open for public demonstrations of its complete system on December 9, 10, 11. The center will be in operation in a matter of weeks, however, stated its director, Dr. McCann.

The system involves a new concept in computing. This new system will allow various experiments and people to use the IBM 7090 as their own private computer. It will allow immediate processing of complex data from experiments, which allows feedback to tell the experimenter what he can do next to get optimum results.

**Let My People Go**

Besides this main advantage, the computer will allow a human being to carry on creative operations with its aid. This should lead to new investigations of this process. Dr. McCann stated that this idea had great possibilities. Another use for the computer could be the displaying of data in the classroom.

The computer system was two years in designing and building. It has been a major engineering and design problem. The system actually consists of several different computers all of which have different functions.

The main computer is an IBM 7090 which actually handles the computing jobs. The other computers control and communicate problems to the 7090. The control computer is an IBM 7040, which assigns problems and priorities to the 7090 and communicates data and programs to the big computer.

Both computers have a 32,000 word magnetic core memory. The computers communicate

through two memory units, a 25 million word tape memory, and a 18½ million word magnetic disc memory. Also the 7040 may interrupt the 7090 and put it on a more important job immediately by a special command.

**Computer is Executive**

The data and other necessary information that isn't stored in one of the memory units is fed into the 7040 through a multiplexer, which is really another type of computer. The multiplexer hooks up directly to experiments and human control consoles. This allows the 7040 to select the jobs to keep the 7090 busy all of the time, and to make it possible to get the best use of the computer for everyone involved.

This computer system is the first of its kind in the world and much of the equipment for it had to be designed and built here. It took a great deal of effort to write the programs so the computer system could perform its function in the best manner possible. It is the culmination of a great deal of effort.

**Arden Arson**  
(Continued from page 1)

"What kind of bad news?" skeptically inquired one of the innocents.

**Illegal Fires?**

"Oh, about a year in jail." Upon further pursual of this subject it was discovered that there were only two things illegal about the Caltech bonfire: Being an "apparently set" open fire it violated the codes of the Air Pollution Control District; and its location at California and Arden Streets constituted a trespass on State property. Another fireman did point out, though, that "of course, there is no law against having a large 'barbeque' if desired."

**Tinkle Alarm Fire**


Noticing that two fire engines had been dispatched to inundate our victory blaze, an anonymous student then asked how many alarms the fire rated.

"Just a little tinkle," informed one fireman.

"After all, we don't mind these fires as long as none of you mind getting wet," gleefully snickered another fireman. But the greatest insult was yet to come; sneered the first fireman, "Just one word of advice: When you beat Scripps next week, please don't celebrate in this fashion."



Mystery arsonists strike Caltech second straight week, this week on the other side of campus. —photo by John Williams



folk music in concert  
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## Booth Center McCann Topic

The Frosh Diners Club kicked off its new year with a talk by Dr. McCann on the new interdisciplinary fields opening up at Caltech. This was followed with a tour of the new computing center. About 25 frosh showed up for this meeting, which is the first in a series featuring various campus guests.

Dr. McCann said that because today's knowledge is expanding at such a rate, that as a result there have been increased melding and intertwining of the various fields. He added that now a competent engineer must be knowledgeable in more fields than ever before, and that he must get down to the basics in those fields he does study. The various examples he pointed out around Caltech of these interdisciplinary fields included: plasma physics, applied mathematics, and biological systems.

Dr. McCann then led the group through the computing center where he showed how the computer helped in this interdisciplinary work.

In the coming weeks the Monday night Y Frosh Diners Club will have Dr. Sharp on "Tomorrow's Geology," followed with a talk the next week by Dr. Owen on "Biology These Days." The Frosh Diners Club meets every Monday at Chandler, and food credit may be transferred by signing the sheet in the student houses.

There's Nothing Lower  
than a  
Fleming Frosh  
except  
Any Other Frosh

## THE BELL TELEPHONE COMPANIES SALUTE: KEN PARKER

When Ken Parker (B.S.E.E., 1961) joined Pacific Northwest Bell he became part of a special services engineering group in the Seattle office. Here was an opportunity for him to learn about the unique services of telephony.

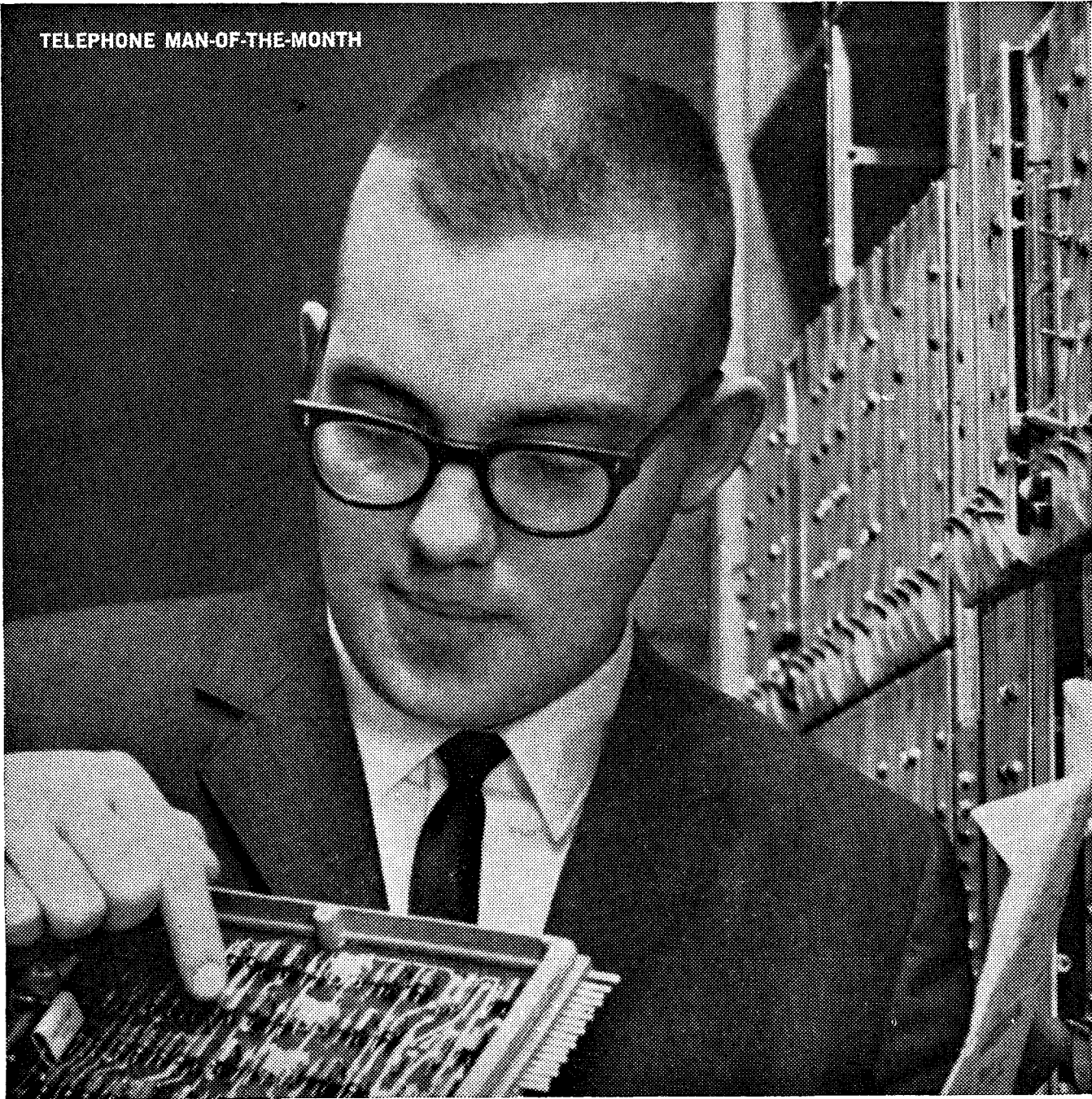
With learning comes responsibility, and Ken was given his share right from the start. He was accountable for the transmission design of all loudspeaker services. Often, he was teamed with a marketing salesman, who would call on him to recommend the right system while with a customer.

Ken went on to bigger and more complicated communications in the special services group. On a subsequent assignment he was responsible for the transmission design of many intercity and interstate services. His decisions were far-reaching and affected many customers.

Ken Parker, like many young engineers, is impatient to make things happen for his company and himself. There are few places where such restlessness is more welcomed or rewarded than in the fast-growing telephone business.



**BELL TELEPHONE COMPANIES**



# From Other Campuses

By Jace

Techmen are all rejoicing about now over the Beaver's first two football victories (a total it took them four years to accumulate in '59-'62). Rennse-laer, however, hasn't rejoiced yet. By successfully losing their first two games this season they have managed to stretch their winless streak to 28.

Speaking of football, the University of Chicago is about to revive varsity football for the first time since 1939. The new team's new coach has even come up with several ideas for inter-collegiate competition, such as the establishment of a league with Caltech and M.I.T. (especially interesting when even the Glee Club can't get to Chicago). Caltech's own George Beadle,

## YMCA To Host Lawson At Dinner

James Lawson, a leader in the non-violent movement for civil rights in the South, will be on campus as the guest of the YMCA on Wednesday, October 23. Lawson gained national attention two years ago when he was dismissed from graduate school at Vanderbilt University in Nashville, Tenn., for leading sit-ins in that city.

Lawson will speak at the YMCA Dinner Forum on October 23 on "The Non-Violent Approach to Civil Rights." Not only will he explain the philosophy of non-violence, but will report from first-hand experience the most recent developments in the South. Lawson is at present Special Projects Director for the Southern Christian Leadership Conference, the organization which Martin Luther King heads, and is an advisor to the Student Nonviolent Coordinating Committee, the organization which began the sit-ins and spread non-violent demonstrations throughout the South. Lawson's primary work with both groups is to recruit and train non-violent leaders in all parts of the South. In addition he is minister of a Methodist church in Memphis, Tenn. Those interested in meeting Lawson prior to the dinner forum may do so at a coffee hour in the Y Lounge at 4 p.m. on October 23.

Lawson's appearance at Caltech will be the first of two programs to be presented by the YMCA under the theme "Two Faces of the Negro Revolt." The second event will be on Tuesday, October 29 (not Wednesday, October 30, as previously announced), when John Shabazz, leader of the Black Muslims in Los Angeles, will speak at Winnett Lounge at 7:15 p.m.

Drugs Sundries Cosmetics Tobaccos  
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Breakfast Lunch Dinner

welcome to the  
**Campus Barber Shop**  
in Winnett Center  
all haircuts \$1.75  
Three Barbers to Serve You  
8 to 5:30 Monday - Friday  
Paul A. Harmon

now UC prexy, supports the new football program completely, obviously a carry-over from memories of gridiron glory at CIT. He has also shown the old Caltech spirit in other ways, such as his recent decision to allow students to sit on the grass in the quadrangle at the center of campus. The decision came as a result of a rumor that the students were planning a sit-in on the quadrangle to protest recent police action in keeping them off the grass.

To stay in the field of science, where accuracy is of primary importance, the MIT Tech notes that, after launching in a campus-wide parking crack down, their equivalent of B & C had dutifully spelled out "DO NOT PRAK" in large white letters along the side of a parking lot.

The Tech also notes that, as of this year, Caltech has joined MIT, Harvard and ten other schools in the top faculty salary bracket in the American Association of University Professors' annual survey.

## Chamber Music Concerts Begin

The Caltech Humanities Department has released final dates for their Chamber Music Concerts. This 1963-64 series marks the fourteenth season for the cultural programs, arranged currently by Philip Kahgan. All of the concerts will be presented in the Dabney Hall Lounge at 8:15 on Sunday evenings.

The first presentation, scheduled for October 20, will feature the Coriolan Piano Quartet playing selections from Mozart, Schubert, and Shostakovich. Other composers to be represented during the year are Brahms, Beethoven, Bach, and Handel. Upcoming feature groups include the Westwood Wind Quintet, expected for November 10, and, on December 8, the Schoenfeld Trio. More programs will follow, with a total of ten to be presented this season. Admission is free, and everyone is welcome.

## Frosh Frolic

(Continued from page 1)

trative mixups among the upperclassmen, only twenty men from other houses joined the 40-odd Blacker men, who however managed to be thrown out of the bank.

As usual, no freshmen managed to complete Blacker's lounge walk — unshowered. Frosh were asked to get from one end of the lounge to the other the lounge being full of upperclassmen anxious to treat the frosh to a bath.

### Wet Phlegms

Fleming, due to certain unfortunate mishaps last year, kept stunts strictly on campus and traditional this year. Under the watchful eye of Jerry Haven, pledgemaster, eager frosh polished Fleming brass, made 31" x 31" signs, and marched off to showers, often.

Dabney also stuck to more or less traditional stunts. Some less conventional freshman, like Kim Gleason buzzed around Chandler and Guggenheim acting like a slightly erratic fighter jet — complete with occasional machine-gun fire. Dr. Moessbauer was one of the victims.

As advertised, Dabney frosh measured the distance from Throop to Chandler in Standard Balloon Lobs — one S.B.L. being the distance a water balloon can be tossed without using hands either for catching or receiving.

### New Houses Stunts

Meanwhile, the new Houses also gave new members a thorough welcome. Tom Vance was kept busy by taking baths in between showers. Vance canvassed one of the better neighborhoods of Pasadena trying to find a friendly housekeeper that would let him use a bathroom. One man was kind enough to do so, so Vance promptly took a nice hot shower.

Bruce Johnson was kept busy in San Marino. He walked around in black sweater black pants, with a little black bag over the shoulder after dark. When the police — and finally the police chief — inquired into the content of the bag, they were told it contained an elephant. The police chief was not amused, especially when it turned out to be stuffed.

### Yellow Pages

Page House pledgemaster Den- (Continued on page 6)

# Pauling Wins Peace Prize

(Continued from page 1)

world opinion, as this award clearly proves."

Dr. Pauling himself made these comments: "... I think it is reasonable to assume, particularly since the announcement comes today when the nuclear test ban becomes effective, that my efforts to bring about this ban was the reason for the honor ... I think that the award of the prize to me really is to be interpreted as including my fellow scientists who have worked hard in this effort too."

He also said, "I have felt all along that I was following the right course and that we have been moving into a period when extreme nationalism will no longer be valued so highly as concern for humanity as a whole. In a sense this may be considered a vindication."

### Predicts New Era

"I am grateful to the committee for having made the announcement on the tenth of October ... the day when the bomb treaty goes into effect with the deposition in Moscow, London and Washington," he said. "I believe that the formulation and signing of this treaty may well go down in history as the greatest action ever taken by nations. I believe that it is the first of a series of international treaties that will ultimately lead to abolition of war, to general disarmament and to the development of a system of international law that will permit the world's problems to be settled in a way compatible with the principles of justice and morality."

"I am happy to think that I have played some part in this successful effort to achieve a treaty banning the testing of nuclear weapons."

### Familiar Caltech Figure

Dr. Pauling was born and raised in Oregon and received his BS in Chem E from Oregon State College in 1922. He then came to Caltech for his PhD (1925) and continued study at Munich, Copenhagen, and Zurich.

He moved up the ranks from TA to research associate, and he continued up to professor in 1931. From 1936 until 1958 he

was Chairman of the Division of Chemistry and Chemical Engineering and Director of the Gates and Crellin Laboratories of Chemistry. He resigned the post in order to teach and conduct research full-time, while leaving time for his outside interests.

Most of his scientific work has dealt in one way or another with the nature of the chemical bond; it has included experimental studies on the structure of crystals by X-ray diffraction and the structure of gas molecules by electron diffraction, the study of the magnetic properties of substances, the investigation of the nature of serological systems and the structure of antibodies, the structure of proteins, and the role of abnormal molecules in causing disease, especially abnormal hemoglobins in relation to sickle-cell anemia and other hereditary hemolytic anemias, and abnormal enzymes in relation to mental disease. In addition, he has carried on theoretical studies, especially the application of quantum mechanics to the structure of molecules and the nature of the chemical bond and the extension of the theory of valence to include metals and inter-metallic compounds.

### Frequently Cited

Dr. Pauling was awarded the Nobel Prize in Chemistry for his research into the nature of the chemical bond and its application to the elucidation of the structure of complex substances. His contributions to chemistry have been recognized also by several other awards including nine medals, and his discoveries in the field of medicine led to his being awarded two medals; in 1957 he received the Grotius Medal for contributions to international law. He has been given honorary doctorates by sixteen universities, including Chicago, Princeton, Yale, Cambridge, Oxford, London, Paris and Berlin. He was president of the American Chemical Society in 1949 and vice-president of the American Philosophical Society from 1951 to 1954. He is a foreign member of the Royal Society of London and an honorary member of several national academies.

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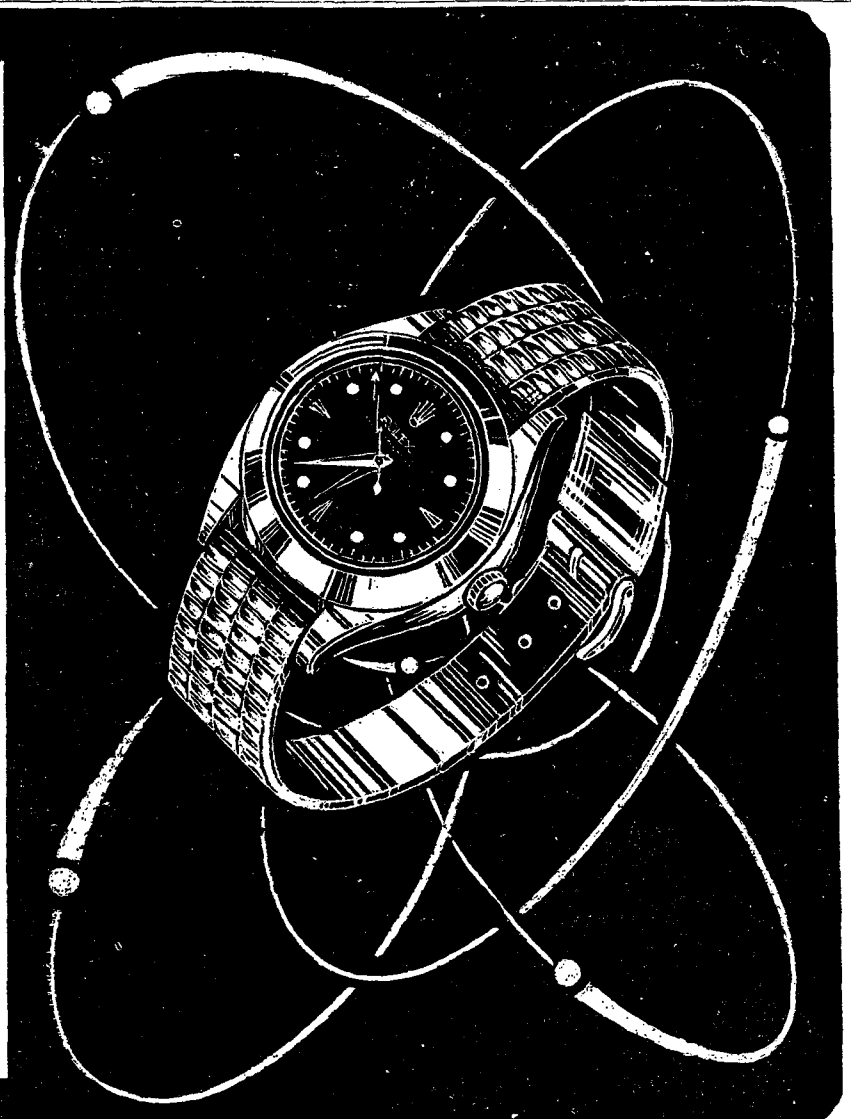
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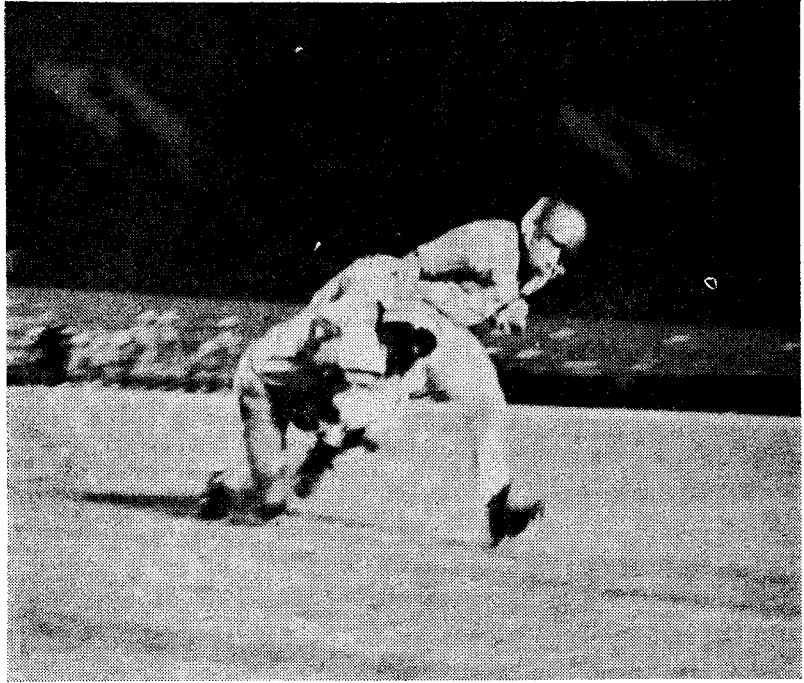
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# SPORTS



Ken Evans is finally hauled down by the Riverside defense after a good gain. Caltech ran its unbeaten string to two with a 14-0 victory over UCR.

## UCR Gridders Wilt Under Tech Onslaught

**BY J. K. EVANS**

A solid defense and a bruising offense, highlighted by two long breakaway runs, enabled the Caltech Beavers to send UC at Riverside down to a 14-0 defeat in what must be termed an upset Friday night at the Rose Bowl. CIT's defense, while still far from flawless, managed to find sufficient intestinal fortitude when it was necessary to fend off three UCR drives in the last quarter; Tech's offense again demonstrated its ability to grind out yardage three and four yards at a time. But it was Peterson's 62-yard dash setting up Evans' 11-yard TD a few minutes later and Evans' 90-yard gallop to set up Liebermann's score which made the difference. Tech's ground game chewed out 328 yards to UCR's 114, but UCR did most of the aerial work, hitting 11 of 31 for 102 yards while Tech completed only one of 6 for 27 yards.

**Defense Sparkles**

Credit for the win must go in the most part to CIT's defensive units, which held UCR to only 33 yards on the ground in the first half and kept constant pressure on the passer, often throwing him for extensive losses. Palmer, De Klyen, and Vinson-haler in the first half and Taynai and Dahlen in the second spent a lot of time in UCR's back-field. Thomsen, Christie, Hall, and Scott stuck to UCR's receivers as if they were sewed to them, often making spectacular leaps in attempts to break up passes and often succeeding. Defensive play was in general a lot sharper — there were no occasions of swivel-hipped half-backs picking their way through hordes of tacklers — and behind-the-line pursuit knocked off any breakaway before it could get started.

The defense is far from perfect, but it's coming along; the offense can grind it out; now all Tech needs is to sharpen up its passing game so it doesn't get a reputation as a one-way team. Of course a lot of practice on fundamentals always helps any team, and this team can always use help. It has done fairly well

so far but still is not playing up to its potential. The team has a lot of work to do to get ready for Pomona next Saturday.

**Play by Play**

Tech kicked off, Hanson booting to UCR's 22, and the return carried to the UCR 39. CIT's defense held and the UCR punt rolled dead on Tech's 20. After a drive to the 37, Hall punted to UCR's 34. UCR drove to mid-field and punted to the 12. Liebermann lost two, Evans picked up 11, and then Peterson dived through right tackle and came up in the clear. He turned on the gas and sped 62 yards before being overhauled on the 17 by UCR's Frisbie. CIT lost the ball on downs and UCR was forced to punt out to its own 39. CIT then drove over in seven plays, with Dinius picking up 12 and Evans going through right guard 11 yards for the score. Liebermann's kick was good and Tech led 7-0.

UCR returned the kickoff to the 35 and mounted a drive which reached CIT's 42 but was killed there by a fifteen-yard penalty. The punt rolled dead on the two-yard line. On the first play, Evans chugged through left tackle, bounced off two tacklers like a pinball, and galloped 90 yards before being caught by Frisbie. Liebermann

(Continued on page 6)

Last Friday's 14-0 victory over UC Riverside was the first Caltech win against the Hilanders since 1957. The last time Tech held an opponent scoreless was in 1958, when the Beavers stomped CHM 12-0. Tech's current winning streak of two games is the first such since the tail end of the '57 season, when the team won its last three games. The last year during which the Techmen accrued two victories was 1958.

This year is the first year since '46 that has seen the Beavers win both openers. That year they soared over Laverne 40-0 and Occidental 19-6. They dropped all the rest of that year's games.

## Beaver Barf To U. C. L. A.

**BY J. K. EVANS**

This is a new, different, and neatsy-keen column designed to inform the ignorant about that ill-directed physical violence known as football. In the next few weeks this column will explain in a painfully clear manner the secrets and evil deep dark sneaky clever diabolical tricks used by your very own football team to bewilder, confound, amaze, and screw the other team out of winning. For the first lesson, we will consider the object of the game, the ball.

Football is played with an oblong inflated rubber ball. Some people think the original ball was an inflated pig's bladder; this is why the ball is sometimes called a pigskin by the uninitiated. This, however, is not the case. The original ball was an inflated foot, belonging to one Amos Alonzo Pigg; it seems Amos was injured in a factory accident, and his foot was preserved in pickle juice by an alert factory nurse; he kept it on his mantelpiece. One day Amos' ten year old son knocked it off the mantel; the jar broke; an immediate chemical reaction puffed the foot up to twice normal size. The lad was delighted; he seized this new toy and rushed off to find his playmates, who promptly named the goodie a football (what else?) and proceeded to kick it around the neighborhood. When little Amos got home, his father kicked him around the neighborhood with his wooden leg.

## Soccer Loses To U. C. L. A.

Caltech lost to a previously unscored upon UCLA team last Saturday. By a 2-1 margin the UCLA team managed to preserve its winning streak, although they were finally scored upon.

The first half of the game ended in a draw. The only goal in the first half was scored by UCLA on a penalty kick inside the goal area.

The second half started as the first with evenly matched teams. During this time Caltech got its goal as UCLA did on a penalty shot. As the second half proceeded, the Caltech team began to have difficulty in controlling the center and the defense began to strain, although it kept the opposition in check. However, UCLA managed to score one more goal during this time on an accidental wicket off a UCLA player into the Caltech goal.

The remainder of the game saw Caltech taking possession of the middle of the field and pressing the UCLA defense — however, the game ended before another goal could be pushed through.

## Water Polo Teams Have Rough Week

Caltech's varsity water polo team found the going rather rough in its first week of competition. The poloists journeyed to Orange Coast College and Cerritos Junior College and encountered well-conditioned and hard-swimming teams. Tech succumbed to Orange Coast by a 14-3 score and dropped the Cerritos contest 13-5. Returning to the home pool last Saturday, the team managed to beat a determined alumni group by a 7-6 score in a game in which all of the varsity squad members saw considerable action. Tom Crocker and Dave Seib led the team scoring for the three games with three goals apiece.

Last Tuesday Tech hosted Glendale City College and today (Thursday) will host El Camino College. Friday the varsity will travel to San Fernando State College. Conference competition will start for both the varsity and freshmen teams next Tuesday when the teams meet Claremont-Harvey Mudd in Caltech's Alumni pool at 4:00 p.m.

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More Frolic

(Continued from page 4)

nis McCreary directed the military school on campus not directed by Major Knight (the Service Academy of Page, SAP). Stunts were confined mostly to campus; Page frosh carried out the traditional inspection of the Lloyd's president's food, and as usual found it unsatisfactory. Randy Dickinson was sent to Ricketts to get a pack of cards. He got one, plus a little water. On Thursday morning Page had slide-rule inspection, and executed those holding improper slide-rules with water balloons. Also the traditional bust-busting contest was won by Dennis McMahon.

Lloyd frosh, under the direction of Lynn Melton, specialized in selfless service to the campus. Due largely to their efforts, a large Texaco sign appeared on The Mushroom, and a jock on Apollo. Other public-spirited initiates zealously propagated the religion of FINGALISM in central Pasadena.

Water Fights

Beside the great run on the bank, the biggest all-campus welcoming activity for freshman and eager upperclassman, the combined forces of the old houses (who, if not working together, were at least not fighting each other), took on the first assault wave from Page, Ruddock, and Lloyd. After the first assault, the new houses were pushed back into their own territory, as frosh deserted to snake up-campus. By the end of the fight at about 9:30, Page had been entered three times by Fleming men, and the other new houses were hard pressed.

Formal initiations have followed initiation week; for vindictive frosh, the list of pledge-masters follows:

- Blacker—Pete Mazur  
Dabney—John Vitz and  
John Simpson  
Fleming—Jerry Haven  
Lloyd—Lynn Melton  
Page—Dennis McCreary  
Ricketts—Mark Gingold  
Ruddock—Fred Brunswig.

Caltech Unbeaten

(Continued from page 5)

skirted right end for the score, then kicked the point, and Tech led 14-0.

Riverside received and lost the ball on downs. Tech took over on UCR's 46. A 27-yard pass from Liebermann to Scott went to the 12, where Liebermann and Evans connived to drop the ball and UCR's Ganster recovered. UCR took over but had to kick from their 24 to their 45, and Evans gained 12 as the half ended.

Second Half Zero

CIT received to start the second half and drove from their 27 to UCR's 15 where they lost the ball on incomplete passes. UCR drove to their 47 but a 15-yard penalty forced a punt. CIT immediately punted back and UCR drove from their 36 to CIT's 15 as the quarter ended. Three incompletes gave Tech the ball as the defense dug in. After a few short gains, Hall punted and UCR returned to their 49. On short passes and a 13-yard run they drove to CIT's eight where Tech's forward wall held while the secondary put up their umbrella. Tech took over and ground out to the 29 where Liebermann was smeared for a loss of five on fourth down in an attempt to run out the clock. UCR had time for one play, a pass to the right end on the line of scrimmage; he fought his way to the two-yard-line as the final gun sounded. Final score: CIT 14, UCR 0.

Audience

(Continued from page 2)

Sadism and Voyeurism

Meanwhile, however, the list of salable perversions had been wearing thin. Of course, a few of the nether ones remained, such as voyeurism and sadism — but how to market them? If you want to see ingenious solutions to the problem, try **Mondo Cane** or **Women of the World**. Now let's get this straight: I like my perversions as much as the next guy, and if he likes such-and-such kicks it's nothing to me. But audiences often don't think about what it is they're enjoying. The makers of **Women** may tell me I'm seeing an educational film or a color travelogue, but that's rubbish; the one and only *raison d'être* of **Women of the World** is to let the audience see human females mistreated, hurt, and pushed around. Probably there's a part of every man's mind that likes to see such things, so go, if you're inclined; only no rationalizing! I hope I won't be regarded as a glandular victim if I confess that I did not enjoy this film. Birth agonies, women covered with flies and camel dung, skin removal for cosmetic purposes, and so forth, add up to

something a little too gamy for my taste. In fact, it's as revolting a sideshow as I've ever seen.

Tengo Hermana

**Mexican Busride** is a 1953 Mexican film made by Luis Bunuel, who just made **Viridiana**. **Busride** is satisfyingly Mexican, with lots of local color, but it's kid stuff. It's about a young man sent on an emergency trip to fetch the lawyer in the next town, via the local bus. The bus is full of simpatico, but unfortunately stock, characters, and it bounces its way eventfully over the countryside for most of the running time. The subtitles are terrible; only about a third of the lines are translated. It's monumentally annoying to sit through a long incomprehensible speech, which the subtitle renders as "let's go." On the same program was another Mexican flick called **The Important Man**, starring, of all people, Toshio Mifune. Being used to seeing him as a samurai, it's a shock to see him as a peon; but he carries it off, with lots of that Latin superpride and ferocity which Minerva, my assistant, calls machismo. The film itself is rather simple-minded, being essentially a version of **The Drunkard**, except that Father turns out to have a heart of

gold.

**The Haunting** had a chance to be a good chiller-diller ghost story, but it flounders in too much talk-talk and falls flat at the end. You never do find out what's been rattling those goddamn doors. With it was playing **The Great Escape**, dealing with good guys tunneling out of a German POW stockade. It features an hour of very monotonous digging. Some of the Nazis are pretty good guys too; Herr Kommandant can hardly bring himself to say "Heil Hitler," and the punishment he hands out for an 18th escape attempt is twenty days in der kooler. There's a good motorcycle chase at the end.

Frodsham Ill; Remeta Returns

Olaf Frodsham, director of the Caltech Glee Club has entered the hospital for treatment of a chronic eye condition. During his absence, Mrs. Priscilla Remeta will direct. Two years ago while Mr. Frodsham was studying in England, Mrs. Remeta led the club on a successful tour of northern California.

Mr. Frodsham has assured the club that he, in his own words, "will be back in the saddle again second term." Planning for the 1964 tour and other Glee Club activities is continuing as usual.

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