



This is a Watchbird watching a Fnurler.

# California Tech

Associated Students of the California Institute of Technology

This is a Watchbird watching you. Did you fnurl this week?



Volume LXVI.

Pasadena, California, Thursday, January 14, 1965

Number 13

## Cal Student Speaks On FSM Goals

BY BEN STACKLER

Martin Roysher, Cal Berkeley student and one of the eleven members of the Free Speech Movement "Steering Committee," will speak on "Implications of the Free Speech Movement" at 7:30 this evening in Winnett Lounge in a discussion program sponsored by the Caltech YMCA. A University of California faculty member may also speak.

Roysher, "a frighteningly articulate young man" according to the *Los Angeles Times* of January 10, is expected not only to clarify the present status of the Free Speech Movement at Berkeley and its goals for the future, but also to discuss the implications of events on the Berkeley campus for other universities. To what extent did faculty members help or hinder the students in negotiations with the Regents and administration? To what extent were news accounts of demonstrations, strikes, sit-ins, and statements by students distorted? These facts and other background will be clarified.

"It is often said that the Berkeley campus is the most politically alive in America, and that what happens here today will be repeated all over America in five years' time," writes C. B. Cox, a visiting professor at Berkeley from England. At any rate, the Berkeley phenomenon is significant.



—Photo by Kim Gleason

An estimated 150 frosh and upperclassmen choke the serving facilities at the Greasy in order to join Dr. Feynman in a Friday repast. All these people came on faith, since the subject of the good doctor's talk was not announced.

## YMCA Leader Maslow On Campus Next Week

Dr. Abraham H. Maslow, professor of psychology at Brandeis University, will visit Caltech January 20-22 as the Caltech YMCA's first Leader of America of the year.

Maslow is prominent in the newly-emerging "third force" of psychology. He believes that Freudian psychology, with its hypothesis of a basically evil personality, ignores the healthy aspects of the human psyche. Maslow has studied people who have developed or "actualized" these healthful drives, and he finds that the healthful approach unifies many previously divergent sectors of psychology.

### Non-Sex Psychology

Maslow carefully formulates his hypothesis of "actualization" in clinically verifiable terms, but he does not believe that present criteria of acceptability of scientific data are broad enough to permit clinical demonstration of his theories.

Maslow is widely respected for his work in the fields of creativity, personality, and motivation, and his prepared talks will correlate this work with the expanding impact of science. His stay at Caltech will also include several small informal discussions in Winnett Lounge.

### SCHEDULE:

#### Wednesday, January 20

11 a.m.—Assembly, Dabney Lounge

"Science Students and Third-Force Psychology"

12 noon—Lunch in Ruddock House

4 p.m.—Informal Discussion, Winnett Lounge

6:30 p.m.—Dinner in Blacker House

8 p.m.—Major Address, Beckman Auditorium  
"Science and Self-Actualization"

#### Thursday, January 21

10 a.m.—Informal Discussion, Winnett Lounge

12 noon—Grad Sack Lunch, YMCA Lounge, Winnett Center

2 p.m.—Informal Discussion, Winnett Lounge

4 p.m.—Panel Discussion with Visiting Psychologists and Psychiatrists, Winnett Lounge

6:30 p.m.—Dinner in Lloyd House

9 p.m.—Student Reception of Home of Prof. Alan R. Sweezy  
(Sign up to attend at YMCA office.)

#### Friday, January 22

10 a.m.—Meeting with Prof. Charles Bures' Psychology of Personality Development class

12 noon—Lunch in Ricketts House

4 p.m.—Discussion in Winnett  
(Continued on page 6)

### Techmen Rule the World

## Crisis Occurs in Dabney

BY RODGER WHITLOCK

The most unfortunate thing about being a foreign affairs specialist is that it isn't possible to experiment with countries the way a biologist can with monkeys. Shortly after World War II, the Rand Corporation conceived of political games, using groups of people to play the roles of the various involved governments. These games were played later at MIT as well. Last Saturday one was held at Caltech presenting a crisis in Southern Rhodesia.

Several weeks before hand, groups were formed to play the roles of the US, the USSR, the United Kingdom, Rhodesia, the Union of South Africa, the moderate African States (Zambia, Tanzania, Uganda, Kenya, Nigeria), and the militant African States (UAR, Ghana, Guinea, Algeria, Morocco). These groups spent their time studying the military, economic, and political characteristics of their respective countries to provide a realistic basis for their game actions.

### Big Brother Was There

There were three other groups involved: a control board to pass all messages before delivery for credibility and to keep track of the game's progress; observers who sat in on each group to watch the development through non-involved eyes; and messengers to carry the communications up and down the stairs of Dabney.

At 8:30 in the morning, the cast assembled and read the scenario setting forth the initial crisis, outbreak of violence between whites and Africans with as-

## Many Frosh Hear Feynman's Opener

BY JUAN LARGO

Professor Richard Feynman, a distinguished physicist and well-known bongo player, spoke Friday evening to the first Caltech YMCA Frosh Diner's Forum. The topic of discussion was Feynman's own experiences on the Curriculum Commission.

It all started when certain friends pressured him into joining the California State Curriculum Commission. His job was screening textbooks in mathematics for the elementary school level.

"It's New . . . It's Modern . . . It's Crap!"

Sounds easy? As easy as any 532 pounds of textbooks can be. "I thought maybe I'd read them for myself," said Feynman. "My hair stood on end when I found out how many there were!"

He found that many of the books were concerned mainly with how to work a problem instead of what the problem could be used for. Most of the texts were concerned with the "new math," teaching abstract set theory to first graders. The books showed an over-reaction to the practical methods of yesteryear.

Feynman found other abominations in the textbook writers' preoccupation with words and definitions. Such things as calling a straight line a "straight curve" and sick lizards "the intersection

of the set for sick animals with the set of lizards."

Such great precision of language only "causes confusion" stated Feynman. Such textbooks ignore the basic necessity to keep mathematics a subject where there should be freedom of thought and flexibility of method.

### Analytical Nothing

So he returned to the Commission's preliminary screening of textbooks armed with a battery of objections. It turned out that the other commissioners had their own very interesting rating system. It gave a good rating to a textbook which had absolutely nothing in it except blank pages!

In spite of this, the Commission did choose a reasonably good textbook and also managed to save \$1 million on the publishing cost. But the State Senate never appropriated the money, thereby saving even more money.

According to Feynman, these abominable textbooks are often written only by primary school teachers. The merits of many of these teachers is questionable, especially when writing textbooks. Therefore, most of the books that come out of this "intellectual undercurrent" are pure trash.

"It is the fault of the intellectuals," he said, that the undercurrent is "never fed by smart people."

## Notices

### DRAMA CLUB FINDS DIRECTOR

Come one and all and marvel at the spectacle of a real live director. Just don't scare him off. Mon., Jan. 18, 7:30, Winnett Clubroom No. 1.

### PHOTOGRAPHY CLUB

There will be an organizational meeting of the Caltech Photography Club at 7:30 in Clubroom No. 1 next Tuesday. Proposed purpose of club is to promote discussion of techniques, obtain quantity prices for materials, and even stimulate the (yech!) art.

### FROSH!

Dean of Admissions Jones, your true-blue friend (or fiendish enemy, depending on your opinion of Tech) will speak on "Caltech Life in the Good Old Days" tomorrow night at the Diner's Forum.

### GOBBLE UP STORIES

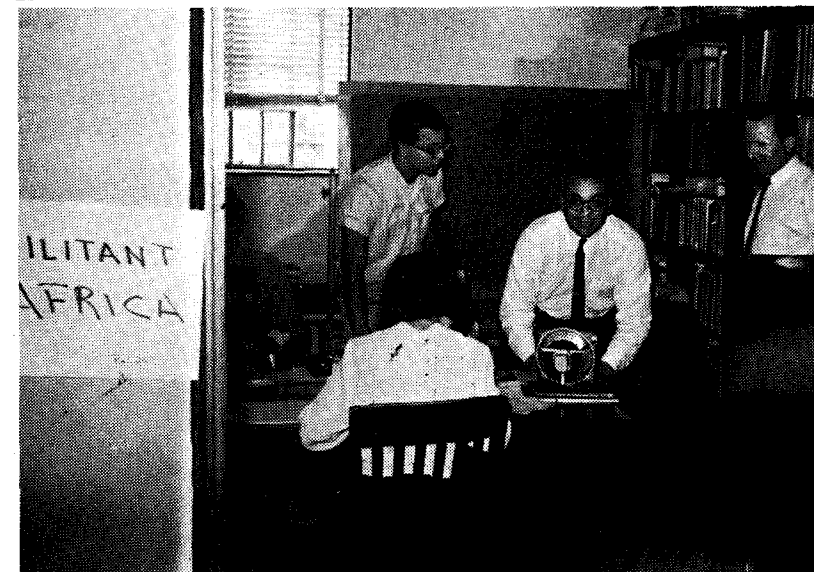
Come hear about "The Moth Who Disguised Himself as a Dragon," "The Perfidious Spider," "The Parliament of Animals," "The Tycoon and the Architect," and many other weird yet familiar creatures. This Saturday, at 8:30 p.m. in Dabney Lounge, Joan Tompkins, Donald Elson, and David Agresti will acquaint Caltech with a unique kind of entertainment, Oscar Mandel's "Gobble-Up Stories." Admission: students 50c, others \$1.

### BICYCLE FOUND NEAR CAMPUS

An English 3-speed bicycle was left at 290 S. Holliston New Year's eve. If it is yours, phone Mrs. H. B. Schow at 792-2449 and identify it.

### SENIORS

Seniors who made personal orders of their BIG T photographs may pick them up in 51 Blacker.



—photo by Kim Gleason

Paul Swatek (staring) and Drs. Murray Gell-Mann (leering) and Robert Conheim (glassless) pretend to be leaders of Militant Africa and plan destruction of the civilized world in last weekend's Political-Military Exercise.

Editorials

# Charities Need You

This year three especially worthy organizations have been chosen for the ASCIT Consolidated Charities Drive. In having this combined drive, the students are given the opportunity to contribute without the bother of outside solicitors on campus.

The three charities are the Planned Parenthood Federation of America, the National Multiple Sclerosis Society and the World University Service. Each one aims at a different target of need. Multiple sclerosis, a disease which cripples and leads to early death for many young adults, has no known cause or cure. The MS Society sponsors research in the cause and possible prevention or cure of this dread disease. Forty-three percent of all contributions go to research in addition to financing clinical care for patients.

With the prevention of early death through modern medicine the rate of population growth, especially in poor areas of the world, has risen phenomenally. The Planned Parenthood Federation is attempting to educate persons, who cannot afford large families, in contraceptive methods. We feel all Techmen should be aware of these goals.

The World University Service aids many universities throughout the world. As this organization has been on the drive before we will not go into detail about its activities.

The Tech urges everybody to give generously to the charity or charities of his choice.

—Wally Oliver  
Stuart Galley

# Idiot's View Of Opera

BY RODGER WHITLOCK

(Note: This review is written as an idiot view of opera and is thus not intended to represent any artistic criticism.)

Saturday evening the 14th last, the S.F. Opera Company presented Nabucco, by G. Verdi. Nabucco is the classic Italian opera, fun to listen to and watch, but bad to interpret in a serious fashion. Naturally enough, the show started with the dimming of the house lights; at the Shrine, this is a real doozy of a spectacular. The chandelier has red, blue, orange-yellow, and white bulbs in it, and as these are dimmed in and out in various combinations, one gets the impression of a slightly demented rainbow. Or perhaps just a slightly demented lighting engineer.

### Over-Stuffed Cushion?

Of course, all this is going on under the world's largest over-stuffed cushion, which is noted for the fantastic numbers of giant moth-holes that have been poorly repaired. (How do they change the bulbs in that chandelier?)

The opera got off to a real bang; the Jews of Jerusalem are standing in Solomon's temple, singing those silly tunes from Italian opera. That takes real spunk, especially when the city is besieged and half of it is in flames.

### Naughty, Naughty

I forgot to mention the orchestra. They sit in front of the stage, all by themselves, but from the way it looked through the binoculars, they are friendly to each other (what did the bassoonist do to the tympanist when they thought nobody was looking?) and they talk, etc., just like frosh in a physics lecture. To guide the players off stage, there was a small closed circuit TV camera pointed at the conductor; his attention to this was noticeable when the only sound was an off-stage trumpet — the index finger waggled only at the camera.

Anyway, back to the burning city. Nabucco (who his friends called Nebuchadnezzar) carried off the Jews to Babylon, into captivity so to speak. At one point, the high priest of the Hebrews is leading them in prayer when Nabby bursts in and proclaims in a booming Italian song (odd language for a Babylonian ruler to be fluent in) that "I am your God." And promptly gets zotted by lightning, turning insane as a result. (Say, there's a conclusive proof of personal di-

vinity: stand on a high hill, muster your best Italian blasphemy, and . . .)

The last scene is quite fun; the idol gets struck and conveniently falls in half; then Abigail (Abby) staggers upstage (really downstage, since there was a definite ten-degree slope to the stage floor), falls between the part of the idol and stays quiet. Five minutes later she revives just enough to sing a long aria, then finally kicks off. Just like Desdemona talking after Othello strangles her to death.

## More Crisis

(Continued from page 1)

Perhaps the greatest disappointment was the lack of action for some groups; this led to the composition of poetry by Dr. R. A. Huttenback of South Africa, cryptic messages to the control board, and a little other foolishness. When asked about the use of the game, Dr. Munger, Caltech's African expert and one of the members of the control board, said that it was to learn not only facts about the countries involved, but also the maneuverings involved in international relations.

# Rowe Clarifies Brazil Politics in H5 Lecture

BY DICK TEZAK

In a sequel to last week's topic, "Some Myths on Latin America," Professor John Rowe of the American University Field Service concluded his visit to this campus with a highly informative lecture delivered to the History 5 class Tuesday in 155 Arms.

Concentrating his attention on the Brazilian Revolution of 1964, Rowe used the events of last March and April as a point of departure for investigating the myth of "good guys versus bad guys" in Latin American politics. **Euphorics and Apocalyptics**

The extreme divergence of opinion among political analysts concerning the causes and the significance of the Brazilian coup was the first fact emphasized by Rowe. He pointed out, for example, that Mazilli, the man who served as interim President dur-

ing the crisis, was variously described as a conservative, a leftist, and a moderate by the New York Times, the Washington Post, and the New York Herald-Tribune, respectively. In general Rowe divided the "experts" on the revolution into two groups. The "euphorics" comprise those who are mostly optimistic; they tend to believe that the middle class rose to save Brazil from the Communists. On the other hand, the "apocalyptics" think of the Brazilian revolt as a union of the bourgeoisie and the military against the poor peasant.

Rowe next suggested that we have in general failed to note the essential and permanent features of Brazilian politics; this has caused the wide disagreement and misinterpretation of the revolution. Under the smooth exterior of Brazil lies an informal power structure, composed of bureaucrats and elected politicians, which Rowe calls "the Establishment." Although the people consistently elect a popular, crusading reform President, the Establishment greets him with "smiling and patient non-cooperation." Unable to accomplish anything, the President either resigns in despair or adopts strong-man tactics which ultimately cause his downfall.

### Who Made the Revolution?

According to Rowe, the revolution was the work of three separate factions, which emerged at different points in the long chain of events leading to the actual revolt. The last of these factions held the balance of power, and when by mid-January they had organized, the outcome was never again in serious doubt.

Rowe concluded his lecture by discussing the accomplishments of the new regime, particularly in the area of electoral and agrarian reform. In general he feels that "impressive progress has been made over the past nine months."

# Hahvahd B. S.

The Harvard Business School has broadened its fellowship program for the degree of Master in Business Administration to more than sixty fellowships, Dean George P. Baker announced yesterday.

The total aid program, Baker said, supports the Harvard Business School in its policy of attracting college graduates of the "highest calibre" to prepare for responsible roles in business management.

The fellowships, most of which carry a maximum stipend of \$1,750, are awarded on the basis of merit and need. Deadline for fellowship application is February 10. Of the grants to be available this fall, 25 will be awarded to outstanding graduates from colleges and universities in specific states and regions. Another 14 are to be awarded, for the first time, to top graduates of specific colleges and universities.

Thirteen of the fellowships are restricted to qualified students studying in fields of special interest, with one reserved specifically for a Peace Corps veteran. There are also seven general fellowships, carrying no restrictions, while five are available only to women. A number of fellowships are limited to foreign students.

## Book Review

# SNCC Book Shows Drama Of Struggle

The Movement. Published for SNCC by Simon & Schuster, New York, 1964.

BY TOM GREENFIELD

This paperback picture documentary of the Negro struggle is a book to buy or at least to borrow. Using the impact of an ironic contrast, the photograph of a double lynching (surveyed by an interested crowd of impassive bystanders) is not found until the fourth page, after a series of conventionally nondescript shots of the Old South.

Following this the pressure does not let up but perhaps becomes the more effective for its realism. One moves fast from Negro ghettos of the North — "one of the South's chief exports has been people" — to a series of evidences of segregation, and from thence to a section of pictures of the demonstration of Negro dissatisfaction that have rocked the South. It is fascinating to observe the varied expressions of the crowds — white and black.

### Superb Artistry

Interspersed with the many journalistic pictures are enough really outstandingly artistic studies to satisfy the most discerning, many evocative of the unsurpassable Family of Man, another must in paperback. One sees the whole spectrum of feelings: hatred, fear, resignation, anger, joy, suspicion, scorn, terror, frenzy, bewilderment, compassion, and perhaps in part one responds . . .

Conservatives and liberals I know who have experienced this book all agree that it dramatically presents a picture of human conditions in this country and world that cannot simply be ignored.



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# Undergrads To Compute Tale of Cosmic Ray Truck Told

BY SIBJDR

Gotten sick and tired of grinding out arithmetic? Want to find out what sort of a world we all will be living in? Want to do something creative? If so, the Y's subcommittee (of its Yeal Science Committee) on student computer use is working for you.

This committee, made up of students and faculty members, is working with the Computing Center staff to explore the possibilities of easier access to the computer for students, and to stimulate student interest in computer use.

Starting soon, informal discussions will be held to acquaint interested students in the basic programming techniques. This is an experiment being done by the subcommittee in order to find out if students are interested in the computer system and if students have a use for it. At the present, the committee is holding seminars with Computing Center staff members to learn about the system and to set up the student discussions.

Last Saturday, the committee was given a briefing on future plans for the computing center, and a quick course in the QUIKTRAN programming language. Steve Caine, head systems programmer, described the current complex at Booth.

### Big Machines On Campus

There are three computers currently in use: an IBM 7040, an IBM 7094, and a Burroughs 220. The 7040 acts as the secretary for the center by handling the input and output to the 7094, and coordinating the running of programs.

The 7094 does the actual running of the programs, and communicates with the 7040 by means of a pair of shared disk storage units. The 220 "Green Machine" is used for menial tasks such as plotting graphs, displaying images on a cathode ray tube, and reading paper tapes, under supervision of the 7040.

Also attached to the '40 are four remote typewriter consoles, one each in Sloan and Crellin, and two in Booth itself. The '40 and '94 each have a capacity of some 32,768 words, and the disk storage units can hold about 19 million words in all.

### Bigger Things Yet to Come

Caine outlined what the Center hopes to acquire by next September. As things stand now, IBM will probably give gratis a System/360 Model 50 computer to the center, along with lots of auxiliary gear. The Model 50 is a very new computer (it is not even in production yet) and is faster, more reliable, physically smaller, and cheaper than current

hardware. It will have a main memory of some 64,000 (64K) words, any one of which may be referenced in two microseconds, plus a bulk memory of about 256K, with an eight microsecond reference time, plus about ten million words of disk storage.

Also, it is hoped that about 25 remote consoles will be located at strategic places around campus, such as frosh and soph physics labs, Winnett, and possibly even in the Student Houses. The system promises to be pretty complete, and quite reliable.

### QUIKTRAN

#### Rules the World

The subcommittee was given a special demonstration of QUIKTRAN in the afternoon. QUIKTRAN is a simple version of the FORTRAN language, designed for use at any of the remote con-

soles. There are two main modes of operation: one in which the typewriter acts like a very versatile and incredibly fast desk calculator, and the other in which small programs may be written and run.

The user is informed by the computer when he makes an error; one may learn the system pretty much by trial and error. However, QUIKTRAN still has occasional bugs. At one time, the computer said that a statement had to be numbered. So the person at the typewriter gave the statement a number. Then the computer said that the statement must not be numbered. On another occasion, someone was typing in a program, and all of a sudden the typewriter stopped dead, and the console typewriter for the 7040 typed "Fireman, Save my child" and quit.

BY TIM HENDRICKSON

Behind Guggenheim stands a weathered 1912 Pierce-Arrow truck. The subject of many romantic legends, the ragged old truck actually came to Caltech in 1938; it was used in the famous cosmic ray research of Dr. Carl D. Anderson, now chairman of the Division of Physics.

Anderson explained that the Cosmic Ray Shack was located behind Guggenheim in 1937 in order to be near the generator plant of the Guggenheim wind

tunnel. Five hundred kilowatts of power were needed to operate the large electromagnet that he used in his cosmic research. Under this arrangement, however, Anderson could only work from midnight until 6 a.m. Later, when the wind tunnel went on full-time operation, he was unable to continue his research.

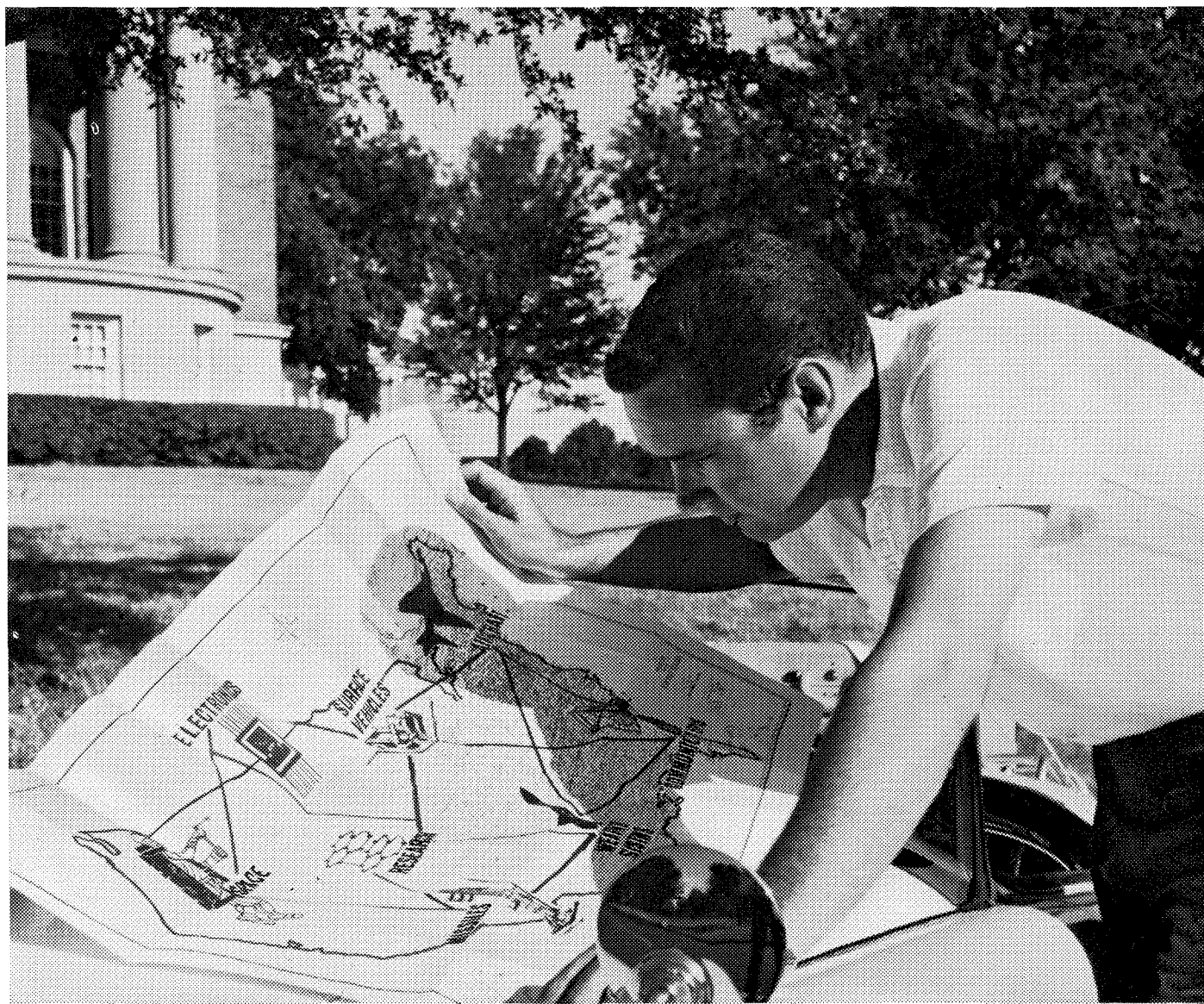
### Pierce-Arrow Power Generator

But wily Anderson knew that "movie studios had portable motor-generator sets." These port-

(Continued on page 6)

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**CAMPUS INTERVIEWS**  
 Thursday, January 21

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# SPORTS

# Tech Outshoots Upland

## Soccermen Lose Final Game 4-0

BY HORNSWOGGLER

UCLA defeated the Caltech varsity soccer team last Saturday afternoon for the second time this season, this time by a score of 4-0. The game was by no means as one-sided as the score indicated.

Two factors entered into the scoring. First, UCLA managed to capitalize on its opportunities to a greater extent. Secondly, the Beavers were in poor shape physically. The Christmas holidays with the late, heavy partying of Friday night served to cripple the team badly. Despite these handicaps, the game was still hotly contested.

### Spies Steal the M

The Bruins, impressed by Coach Andrews' strategy of previous games, utilized his "M" offense pattern, where the two insides are ahead of the other men of the front line. Absences hurt Caltech's defense, but the Beavers managed to work out their prob-

lems and establish a tight backfield.

During the first half, UCLA scored three times. In the second half, the tightened Beaver defense allowed the Bruins only a single goal.

Caltech's offense was marked by a complete lack of the short deadly passes which usually characterizes its game. Yilmas made a valiant effort to score in spite of inadequate support. After the last goal early in the second half, the game settled down to a complete stalemate as Caltech's defense completely neutralized the Bruin offense while the Beavers never managed to put together their own offense.

This game marked the end of the regular season. An informal soccer club is likely to be formed soon for those who might be interested in playing occasionally. Any so inclined should contact some member of the soccer team.

BY LEON FUNG

Mighty Upland was overpowered Saturday night as the Caltech varsity basketball team won its second game of the season on the home court, 64-52. Spurred on by the opening prayer, the Techmen jumped off to an early lead, but by half-time this had been reduced to four points.

### Second Half

After an inspiring pep-talk, the Beavers came roaring out of the dressing room and quickly found themselves down by five. This was due in part to a close press by Upland. When Tech countered with its own press, Upland's ball-handling proved surpassingly inept; Jim Pearson broke the game open with several consecutive buckets.

Even the referees were nervous by this time, and both Pearson and Herb Jubin were repeatedly called for breathing. Nevertheless, Tech managed to cling to its lead in the final minutes, despite a concerted effort at playing give-away.

What are optimistic potatoes called?

Candide yams.

John Tucker, with typical altruism, sank the last shot of the game to bring his total to 20 points, leaving Pearson with 18, Jubin 12, and Don Blair 9.

### Pomona Game

The win over Upland came on the heels of a loss to Pomona in Tech's first league game here Friday night. Pomona won going

away, finishing with a 82-60 victory, after leading at halftime by 38-31.

In their first game after Christmas, Tech's all-stars managed to throw the ball away often enough to lose to Life College 78-74 in overtime. Even John Nady was unable to salvage this game for the Beavers.



—photo by Kim Gleason

Herb Jubin leaves his Pomona defenders flat-footed, but Tech lost the game.

## New Rules In IH Football

BY ROB DICKINSON

All House athletic managers were requested to attend a special meeting on Wednesday, January 6, called by Coach Nerrie, director of the Interhouse sports program. New rules relating to Interhouse football were discussed.

Most of the discussion centered around the stopping of the official clock. A new rule requires that the clock be stopped during the last two minutes of the game, but not the half, after an incomplete pass, touchdown, or whenever the ball goes out-of-bounds. The clock should not be stopped after a penalty during this time or after a touchdown at any other time.

### Other Changes

Another rule concerns blocking. Only direct, head-on type blocks are allowed except within one yard of the line of scrimmage, where cross-body blocks are legal. In addition, a defensive team may not block offensive ends downfield before a pass is thrown on a possible passing play.

Two safety measures were discussed. For the first time in many years, football cleats will not be allowed; also, it was suggested that glass-guards be worn by players wearing glasses on the field.



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# Favorites Romp In IH Football

BY JOSE

BY J. K. EVANS

Rising like a Phoenix (ornithological, not Arizonan) from the ashes of the football season, this column resumes its rightful place in one of the world's great newspapers. Gotta find something new to complain about now that the season's over. (On the other hand, maybe it is an Arizonan Phoenix; there have certainly been plenty of Arizonan ashes around lately.)

It is now time to complain about basketball season, and what better way to gripe than to chronicle the career of one of the sport's all time greats, Herman Filbert, who helped make basketball what it is today.

**Go, Hermie, Go**

Herman invented several of the most common movements of basketball, and he was mainly responsible for the introduction of several new rules. For example:

**The dribble:** Herman was the first man in the history of basketball to think of dribbling on the way down the court; unfortunately the other players kept slipping on the dribbles and the referees made Herman wear a bib.

**Traveling:** Herman introduced traveling with the ball during a game in Cincinnati, and it took three days to find him in New York and get the ball back (also the gate receipts).

**Stop, Stop, Ye Varmit**

Hacking: Herman was the first player to foul by hacking; he threw a tantrum when the referee took his hatchet away.

**Back-court rule:** the back-court rule was instituted when Herman, unable to shoot because he was being too closely guarded, got discouraged and left through the door at his end of the gym, taking the ball, the home basket, and the backboard with him.

**Charging:** the charging rule was passed to keep Herman from trampling smaller men who tried to guard him; they also made him take off his helmet and shoulder pads.

(Continued on page 6)

Close games were a rarity as six Houses opened their Inter-house football season this week. The three leading contenders, Page, Fleming, and Ruddock, struck early and consistently to demolish Lloyd, Ricketts, and Dabney, respectively.

**Red**

Fleming used the roll-out to perfection while trouncing hapless Ricketts on Monday. Quarterback Owens utilized a single-wing offense for the most part with a split end, slot-back, and halfback on one side. This blocking power allowed him to roll to the strong side with a pass-run option. Don Green caught three aerials for 18 points in the first half; Owens contributed his share with two fine broken-field runs for TD's, as Fleming romped 31-6.

Page had a little trouble with Lloyd in a rather sloppily played game. Neither team showed too much of an offensive threat, but Page's defense was superb. The key play of the game came on an interception by Tom Resney, who returned the ball about 70 yards down the left sideline into the Lloyd end zone as the half ended. When the final whistle blew, Page marched off the field with a 26-13 victory.

**Blue**

There was only one game played Tuesday, but enough TD's were scored for two games, as Ruddock clobbered Dabney 48-6. With Sherman and Fettig completing almost 70% of their passes (a couple were dropped) to five receivers, the men in blue tested out their new uniforms with complete success. Leading the scoring for Ruddock were Steve Blumsack with 20 points and Bo Barbosa with 13. In all fairness, Dabney played without their regular ends, causing the demise of their offense.

My predictions remain the same as last week. Ruddock and Fleming should battle it out for first, with Page as the dark horse. Dabney and Blacker should be pressed by Lloyd for fourth place. Unless Ricketts improves, they

seem destined to finish in the cellar.

**Predictions**

Ruddock over Lloyd by 14  
Page over Blacker by 6  
Fleming over Dabney by 20  
Dabney over Lloyd by 1  
Ruddock over Ricketts by 20  
Fleming over Page by 13  
Ruddock over Blacker by 10  
Lloyd over Ricketts by 6

**Funniest Play of the Week** is credited to John Vitz of Fleming who tried to punt without a shoe.

**Most Amazing Play of the Week** occurred when Vitz kicked the ball almost 40 yards from scrimmage.

## Frosh Suffer First Defeat Of the Season

BY LES PISCOSS

After a four-week-long layoff, the Caltech frosh basketball team lost to Pomona College 78-65 last Friday. Though playing poorly the entire game, the yearlings did demonstrate that they are certainly as good as the other teams in the conference.

The Beavers took an early lead on the force of their press, but gradually fell behind as their ball handling became quite loose. By halftime, they were behind 40-35. During the second period, the Pomona lead increased to about 15 points as our frosh forgot about playing defense. Better things are definitely expected of this team.

Neil Olson of Pomona led the scorers with 30 points. Caltech's John Frazzini pumped up 18, while Jim Stanley and Terry Bruns chipped in 14 and 13 respectively.

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## Next Week In Sports

VARSITY BASKETBALL			
Sat.	Jan. 16	8:15 p.m.	Claremont-Mudd at Caltech
Tues.	Jan. 19	8:30 p.m.	Whittier at Caltech
FROSH BASKETBALL			
Sat.	Jan. 16	6:15 p.m.	Claremont-Mudd at Caltech
Tues.	Jan. 19	6:15 p.m.	Whittier at Caltech
WRESTLING			
Fri.	Jan. 15	7:30 p.m.	Claremont-Mudd at Caltech

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## More Truck

(Continued from page 3)

able power plants were used by the studios to operate their arc lights on location. And since Anderson was a friend of Frank Capra, "the famous movie director . . . we were able to buy a motor-generator set from Columbia Studios for a song."

The Pierce-Arrow power set was then towed from Columbia Studios to its present location at Caltech, where it has since remained. It was last actually used, however, some five or six years ago. Anderson suggested that as a probable future for the old truck it would be given to the LA County Museum, where it would be restored.

### Big Henry . . .

Closely related to the old truck is the story of "Big Henry." Big Henry was the name — coined by Dr. Eugene W. Cowan of physics — given to the large magnet that Anderson employed in his study of strange particles. Big Henry had been built during World War I by the Federal Telegraph Company and was intended for use in the naval radio transmitter at San Diego. In those days of radio technology an electric arc was "blown up" by a strong magnetic field into noisy waves.

### and Little Henry

Big Henry, weighing about 30 tons, provided the field for the cloud chambers which led to Anderson's Nobel confirmation of the positron, and later to the identification of the xi-meson. In 1945 there also appeared "Little Henry," which Cowan was going to use in his own research on strange "V" particles. But time was working against Big and Little Henry. The perfection of atomic accelerators—atom smashers — made it possible for researchers to manufacture their own atomic particles, instead of waiting for cosmic cascades.

So today Little Henry resides in a trailer near Brown Gymnasium. Big Henry, however, was not so fortunate; two years ago the large magnet was cut up into scrap iron. It is only fitting, therefore, that the old truck remain intact as one of the last survivors of a pioneering era.

What did one group say to the other?

"Let me tell you about my operation."



Office work in Europe is interesting

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## M OTA

(Continued from page 5)

Face-guarding became illegal after a fellow who kept slipping by Herman and getting passes for easy layoffs lost seven teeth and spent three weeks with a wired jaw when Herman face-guarded him with a folding chair.

Herman introduced the hook shot, but the referees took away his meat hook and the style became somewhat more refined.

Double-dribble: Herman finally had to wear two bibs.

The moving screen was declared illegal after Herman introduced it in a game in Hollywood and the manager of Grauman's Chinese sued the team to get his screen back.

Yes, Herman's career was long and filled with highlights. Perhaps in future years his greatness will be appreciated. For now, we can only mourn his tragic demise, which occurred when, in the heat of a hard-fought game, Herman tried a little goal-tending, got his head caught in the net, and strangled before he could be cut down.

## More Maslow

(Continued from page 1)

### Lounge

"Reaction to Caltech"

6:30 p.m.—Dinner with Friends of the Caltech YMCA

"Religion, Values and Peak-Experiences"

The panel discussion at 4 p.m. Thursday will include several psychologists and psychiatrists from the Los Angeles area, who will contribute different points of view to the discussion. Besides Maslow, the panel will include Dr. Dan Siegal, Institute psychiatrist; Dr. Kenneth Eels, Institute psychologist; Dr. Thomas Dorr, psychiatrist; Dr. Marcia Goin, psychiatrist; Dr. Kareem Monsour, psychiatrist; and Dr. Robert Tannenbaum, social psychologist from the Business school at UCLA.

Several books by Maslow and related authors are available in the YMCA Lounge for those who wish to borrow them. Written questions are welcome and should be turned in to the YMCA office as soon as possible.

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