

Cal Student Speaks On FSM Goals

BY BEN STACKLER

Marilyn Roysher, a Cal Berkeley student and one of the eleven members of the Free Speech Movement (FSM) at Berkeley, will speak on "Implications of the Free Speech Movement at Berkeley and its goals, for the future," and also to discuss the implications of events after the "civil war" 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, police actions, 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 the United States, and what happens here today will be from England. At any rate, the Berkeley phenomenon is significant."

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Many Frosh Hear Feynman's Opener

BY JUAN LARGO

A distinguished physicist and well-known bongo player, spoke Friday evening in Winnett Lounge in a discussion program. 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 to screening textbooks in mathematics for the elementary school level.

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

Sounds easy? As easy as any 325 pounds of textbooks can be, "I thought maybe I'd read 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 why 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 the principles and the practical methods of yesteryear.

Feynman found other abominations in the textbooks where students were forced to write in the books and erase and write over them until it looked like a straight line, a "straight curve" and sick lizards "the intersection of the set for sick animals with the set of smart people."

Each great precision of language only "causes confusion," stated Feynman. Such textbooks ignore the basic necessity to keep text and pictures close together, so that there should be freedom of thought and flexibility of method.

So he returned to the Commission's preliminary screening of textbooks with a barrel of objections. It turned out that the textbooks for junior high school are their very own 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, most of the books that come out of this "intellectual undercurrent" are pure drivel.

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

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Crisis Occurs in Dabney

BY ROGER 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 non- human subjects. For example, if 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 evening a whole teaching crisis in Southern Rhodesia.

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

Big Brother Was There

There were three other groups involved: a control board, leaks of messages to parties other than the addressers, and addition- al scenarios made up between the teachers is questionable, especially when writing textbooks, most of the books that come out of this "intellectual undercurrent" are pure drivel.

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

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Dr. Abraham H. Maslow, professor of psychology at Brandeis University, will visit Caltech January 30-32 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 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 healthy drives, and he finds that the healthy adult is able to manifest many previously divergent sectors of psychology.

Non-Science Psychologist

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.


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Dr. Charles Bures' Psychology of Personality class will also include several small informal discussions in Winnett Lounge on Tuesday, January 20.
Idiot's View Of Opera

By Roger Whittlock

(Note: This review was written as part of a class paper and is not intended to represent any articulated opinion of the reviewer. However, everyone evening the 16th last, the S.P. Opera Company presented an opera different from the usual - it is the classical Italian opera, fun to listen to and watch, but bad to interpret... Naturally enough, the show started late; the opera proceeds around 9 lights; at the Shrine, this is a real doozy of a spectacular. The chaucon... red, blue, yellow, and white bulbs in it, and as they progress around the stage in various combinations, one gets the impression of a slightly demented rainbow. Or perhaps just a slightly demented light bulb.)

Overstuffed 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 mushrooms which have grown and are being repaired. (How do they change the bulbs in that chandelier?)

Blessed are those who sit in the audience and see the whole spectacle, but for the rest, it is all by themselves, but from the way it looked through the binoculars, the audience was standing, many of them in those silly tuxes from Italian opera. That takes real spunk, especially when they are dressed and half of it is in flames. Nonetheless...

I forget to mention the orchestra. They sit in front of the stage, and they, themselves, from the way it looked through the binoculars, they are friendly to each other — what I had to do was to measure the distance to the tympanist when they thought they were hearing him (and not the strings) — and they talk, etc., just like fresh in a physics lecture. To guide the players on and off stage, there is a small closed circuit TV camera placed above the orchestra, and one must pay attention to this, because sometimes the wrong image will appear on the screen; but the players operate it by pressing a button on a little control box, and the attack will make real sense to them... When asked about the use of the camera, Mr. Bump, Manager of the opera's projection department, said that it was to learn not only facts about the orchestra, but also the musicians involved in international relations.

Havahd B.S.

The Harvard Business School has announced a fellowship program for the degree of Master in Business Administration to more deserving students. The fellowships are to be awarded to those who have been chosen for the program by J. C. Simpson, Manager of the fellowship program.

More Crisis

(Continued from page 1)

Perhaps the greatest disappointment was the lack of action for some groups; this led to the com- position of poetry by Dr. R. A. Hussenback of South Africa, cryptic messages to the control board, and a little other foolishness. When asked about the use of the camera, Mr. Bump, Manager of the opera's projection department, said that it was to learn not only facts about the orchestra, but also the musicians involved in international relations.

Rowe Clarifies Brazil Politics in H5 Lecture

By Dick Tezak

In a sequel to last week's topic, "Screw Myth on Latin American Professor John Rowe of the American University Field Serv- of the ages to this campus with a highly informative lecture delivered to the His- 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. Referring to Brazil and Argentina, Rowe pointed out that "there are many countries labeled as "Milo," and the middle class which Rowe calls "the Establish­ ment." Although the leaders of the council evidently adopt a popular, crusading­ reform President, the Establish­ ment greets him with "smiling­ and patient non-cooperation." Unable to accomplish anything, the popular President resigns in despair, and a strong­tacticians which ultimately causes his downfall.

Who Made the Revolution?

According to Rowe, the revolu­ tion was the work of three sepa­ rate factions, which emerged at different points in the long chain of events leading to the 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 doubt.

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

Book Review

SNCC Book Shows Drama Of Struggle


By Tom Greenfield

This paperback picture documen­ tary of the Negro struggle is a book to buy at least to bor­ row. Using the impact of an ironic contrast, the photograph of a double lynching (surveyed by an interested crowd of Impressive America) is treated with the fourth page, after a series of conventionally monochrome shots of the Old South.

Following this the pressure does not let up and perhaps becomes the more effective for its realism. One moves fast from Negro ghettoes on the North — "one of the South's chief exports has been people" — to a series of evidences of segregation, and from tence to a section of pic­ tures of the demonstration of Negro dissatisfaction that have marked the South. It is fascinating to observe the varied expres­ sions of the crowds — white and black.

Super Artistry

Interwoven with the many international pictures are enough really outstandingly artistic stuf­ fes to satisfy the most discern­ ing, many evocative of the un­ surpassable Family of Man, an­ other must in paperback. One sees the whole spectrum of feel­ ings: hatred, fear, resignation, anger, joy, sympathy, scorn, der­ ren, froyn, hewilderness, com­ passion, 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 con­ ditions, in a country and world that cannot simply be ignored.
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Undergrads To Compute

BY SIBBIOR

Gotten sick and tired of grind- ing and arithmetic? Want to find out what sort of a world we all will be working in at age 50? Do something creative! If so, the Y's subcommittee (of its Yen! Special Committe) on student computer use is working for you.

The committee consists 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 sub-committee 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 computer system and to set up the student discussions.

Big Machines On Campus

There are three computing centers currently in use: an IBM 7040, an IBM 7094, and a Burroughs 220. The 7040 acts as the secretary 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 mental tasks such as plotting graphs, displaying images on a cathode ray tube, and running paper tapes, under supervision of the 7094.

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Tale of Cosmic Ray Truck Told

BY TIM HENDRICKSON

Behind Guggenheim stands a weathered 1912 Pierce-Arrow truck. The subject of many ro­ mastable 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 con­ tinue his research.

Pierce-Arrow Power Generator

But wily Anderson knew that "movie studios had portable mo­ tor-generator sets." These port­ tations promised to be pretty com­ mon, including the fact that they were easy to move around in a parking lot. It was no problem for Anderson to acquire one of the generators, and he used it to power his "Cosmic Ray Shack." It worked beautifully, and Anderson obtained another generator for his laboratory, a 500 kw generator.

In May 1938, Dr. Anderson was promoted to associate professor. The Laboratory for Cosmic Ray Research was moved to the Physics Building, and the Cosmic Ray Shack was sold to a farmer.

Drop in for a game of skill and apply the laws of physics — besides it's FUN!!

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Thursday, January 14, 1965
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 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 those 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 problems 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 characterize its game. Yilmaz 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 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.

Tech Outshoots Upland

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 an opening prayer, 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 surprisingly inept; Jim Pearson broke the game open with several consecutive baskets.

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 62-40 victory, after leading at halftime by 36-31.

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.

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.

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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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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 Arizonans 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, Herman, 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 Connecticut, and it took three days to find him in New York and get the ball back (also the gate receipts).

Stop, Start, Ye Vaseit

Hacking: Herman was the first player to foul by hacking; he tried 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 back-door, the home basket, and the backboard with him.

Charging: the charging rule was passed to keep Herman from picking up the ball almost 40 yards from scrimmage.

(Continued on page 6)

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able power plants were used by the studios to operate their 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.

Big 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 and future years his greatness will be appreciated. For now, we can only mourn his tragic demise, which occurred when, in the heat of a hand-fought game, Herman tried a little goal-tending, got his head caught in the net, and strangled before he could be cut down.

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Wednesday, January 14, 1965

Thursday, January 15, 1965

Friday, January 16, 1965

Saturday, January 17, 1965

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Questions

M.OTA

(Continued from page 3)

Face-guarding became illegal after a fellow who kept slipping by Herman and getting passes for easy layups lost seven teeth and spent three weeks with a wired jaw when Herman faced-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 highlight. 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 hand-fought game, Herman tried a little goal-tending, got his head caught in the net, and strangled before he could be cut down.

More Truck

(Continued from page 3)

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JANUARY 21

and

JANUARY 22

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