

And Feynman said: "Let there be Quarks." And there were Quarks. And the Quarks were fruitful and multiplied, and their quantum numbers spread across the land. And it was shown that the universe was made of three funny balls connected by springs. III Feynman 20:12. -Photo by Fish

### Still Undefeated

## **Beavers Tie Redlands JV**

#### by Paul Levin

Caltech began its 1970 football season Saturday by tying Redlands JV, 0-0. In the last 55 seconds Tech mounted its best offensive drive of the evening, moving the ball almost 65 yards in four plays, three of which were completed passes. Unfortunately, the last pass was completed just as the gun went off, ending the game.

In spite of an ASCIT-sponsored movie and a Page House exchange, some fifty students made the 65-mile trip to Redlands to watch the game. The team was grateful for this support, and it attributes part of its success to the yelling and cheering that came from the stands that evening.

This is the first tie for the Beavers since the 1958 season. That year they tied Cal Western, 42-42. At the time it was the highest tie score in the history of college football.

#### Hold 'Em

On Friday a team from La Verne will play the Beavers here at 1:30 p.m. The Beavers plan to win this time. La Verne is reputed to have a better passing game than Redlands, but Redlands' JV has already beaten La Verne's JV, by a score of 21 to 14, if I remember correctly. Needless to say, the team would like to see a lot of friendly faces in the stands on Friday. If you don't have classes on Friday afternoon come out to see the game; if you've got classes, come anyway

## Quarks Pull Feynman Out of the Woodwork

### Renowned Quantum Mechanic Speaks at Beckman

#### by Philip Massey

"How Good is the Quark Model?" Dr. Richard P. Feynman (some of you may have read his books) asked a packed house in Beckman Auditorium last Thursday.

Originally, the talk was planned as a report by Dr. Feynman to his colleagues on the results of a large series of tests of the quark model. Due to the great number of persons present whose interest in the quark model was perhaps secondary to their interest in seeing the legendary Feynman, a brief, but thorough, introductory talk was given on what the quark model actually is.

One of the most usually noted features of a Feynman lecture is the feeling afterwards that one understands what was said, even (or

perhaps especially) if one did not. In an effort to explain the hundred-odd sub-atomic particles called baryons, and the seventy or so mesons, several theories have been proposed. One of these theories was that of Dr. Gell-Mann of Caltech, and is based on things called "quarks." Gell-Mann suggests that if one accepts the existance of three slightly different quarks, all the other "elementry" particles can be thought of as combinations of these. A baryon would be composed of three quarks, and a meson of a quark and an anti-quark. Quarks have certain rather unusual characteristics such as fractional charges (+2/3 or -1/3). However, the quark model is comparatively simple, and very nice philosophically.

One of the arguments against the quark model is its very simplicity. We expect complexity," Feynman remarked, and quarks are a "stupid, childish model" that appears to work.

For awhile the quark model was not taken all that seriously. However, a funny photoelectric effect was found that could best be explained by a prediction that was unique to the quark model. Dr. Feynman, among others, has been testing all sorts of things to see what comes out the way the quark model says it should, and what does not. The report Thursday was on the first results of these tests.

Quark Is as Quark Does Do quarks exist by themselves, if **Continued on Page Six** 



Volume LXXII

Pasadena, California, Thursday, October 15, 1970

Number 4

# **APh Program Wins Approval**

#### by Peter Beckman

Monday afternoon the Faculty. Board approved a program for Applied Physics making the option full part of the Caltech curriculum. The option, itself, had been approved last June, but various factors delayed the approval of the program until now.

Applied Physics, as the name implies, is concerned with the application of both modern and classical physics concepts to technology. Thus, it remains closely related to both Physics and Electrical Engineering, but on the whole will be less theoretical and more experimental than either option.

**Close Ties** 

As proof of this closeness many of the new Applied physics courses are actually transfers from other options. For example, Electrical Engineering 3 is now Applied Physics 3, and Physics 204 has

become Applied Physics 240. The entire program has been deliberately designed to facilitate student transfer from other options, especially Physics, to Applied Physics.

Because of its unique status Applied Physics is administratively independent of any division. Dayto-day affairs are conducted by an executive committee of three chaired by Prof. Hans W. Liepmann. The other two members, Prof. David L. Goodstein and Prof. Floyd Humphrey are, respectively, in charge of graduate and undergraduate studies in Applied Physics. They Come in Degrees

There will also be a committee with representatives from the divisions of Chemistry and Chemical Engineering, Engineering and Applied Science, Geological Sciences, and Physics, Mathematics and Astronomy. This committee's primary duty is to give advice concerning the option.

The option offers three degrees, bachelor of science for undergraduate students, and master of science and doctor of philosophy for graduate students. Students interested in changing their option to Applied Physics should get a petition from the Registrar's Office.

## NOTICES

Pasadena voters defeated motions to recall three members of the Pasadena School Board in a special election Tuesday. Only 50.58% of the electorate went to the polls.

The recall election. prompted by the decision of the Pasadena School Board not to appeal a court order forcing them to end de facto segregation, produced the following close results:

Candidate	Yes	No
Engholm	22,258	23,281
LaMotte	22,410	23,000
Lowe	21,610	23,522

#### **Big Braves to Meet**

An organizational meeting of all potential Big Braves will be held tomorrow noon, Friday, in the Ruddock House Lounge. Any and all Techers interested in working with fatherless boys in a one-to-one relationship are urged to come. The Little Brave program, in its second year, involves meeting once every two weeks for an hour or two in a 'tribe" of students and 6-8 year old boys who lack a father in their homes.

## Professional Radical **Alinsky Organizes People**

#### by Ira Moskatel

"The way I see it," said Saul criminology, I'm still in criminolo-

community action situation.

In 1964, Alinsky organized the tactics were highly unconventional. necessary is a lot of hard work.

concrete task. "The university radical is useless," proclaims Alinsky, Alinsky in a visit to Caltech Chicago Black Slum, Woodlawn, to "He gets all riled-up with rhetoric, Wednesday, "I started out in fight landlords and merchants. His and gets nothing done. What is

The name of the game was defense. The Beavers were able to stifle the powerful running game for which Redlands is known, but Redlands was able to squelch Tech's, too. The Beaver defensive unit was so proficient that all eleven members were given honors for the week.

Passing was an entirely different matter; Tech gained 130 yards on passing. This was accomplished in spite of three long passes that were dropped and in spite of a line that was not entirely capable of holding back Redlands' rushing unit. Gary Stormo caught a forty-yard pass in the final scoring drive.

The man of the week contest is still continuing among members of the team. Frank Hobbs was named Lineman of the Week, and John Morton was named Back of the Week.

gy: only the focus has changed from Capone to Corporations."

Saul Alinsky is, as Harper's phrased it, a "Professional Radical." His occupation is organizing people. While a student at the University of Chicago during the depression, Alinsky wanted to learn about crime: he went right to the top -Al Capone. Ever since, Alinsky has been getting things done.

The accomplished agitator's first major victory was organizing Chicago's "Back of the Yards" movement more than twenty years ago. He set up a self-help program and got the residents of the slum which Upton Sinclair wrote about in The Jungle to fight city hall and the landlords. Eventually the area was changed into a model working class city. Alinsky was one of the first to use successfully rent strikes, mass meetings, and boycotts, in a

He picked the blackest residents of Woodlawn and marched them outside the landlords' residences in fashionable suburbs. Eventually, neighbors complained, "Get them out of here!" The landlords had to ease conditions to comply.

Among Alinsky's staff members was a young man by the name of Cesar Chavez, recently risen to national prominence as the leader of the farm workers' movement. Alinsky heads the Industrial Areas. Foundation, dedicated to teaching organizers in the mechanics of non-violent confrontation. A week for him might include visits to both coasts and a half-dozen lectures at colleges and universities.

Alinsky, 61, is a soft-spoken, down to earth man. He is not, as might have been implied, a ruthless revolutionary. He believes in modeling his actions so as to accomplish a

The experienced organizer is "anything but pessimistic" about the role of college students, however. He sees the majority of college students who used to notice injustice without knowing a solution as the key to success on the campuses. "Now, there is information and a pattern for action." We questioned this on small, conservative campuses, and Alinsky cited the University of Macon, Georgia, as a concrete example. He has traveled throughout the Midwest and scene the same phenomenon - a rise in interest and constructive action on the part of previously uninvolved students.

Alinsky's quiet, sense of humor is the first feature recognizable. We met him at Los Angeles International Wednesday morning and started popping questions based on **Continued on Page Seven** 

#### Republicans to get out Vote

Any persons interested in registration canvassing, telephone recruiting, or getting-out-the-vote for the Republican Party should contact Terry O'Neil, 121 Ruddock, or Neil Sutherland, Republican Associates (315 W. 9th St., L.A., 628-5291) for information. Placement will be in campaign of choice, if possible.

## **Editorial Politics and Caltech**

As soon as the mailroom catches up with Rotation and Room Changes, every student will receive, if he has not already, a copy of the Institute policy on political activity. Every student would do well to carefully read this document and seriously consider its implications.

In the most extreme case, the Institute could lose its tax-exempt status under Section 501 (c) of the Internal Revenue Code for engaging in direct political activities. The IRS provides tax-exempt status to "educational, scientific, charitable" and certain other types of institutions, based primarily on the purpose of the organization. Political organizations do not come under that definition. Obviously, only a flagrant excursion of the Institute into politics could bring loss of tax-exempt status, which would be an unrecoverable financial blow to the Institute.

However, the Institute could suffer in other ways from even relatively minor excursions into political involvement as an institution. The example of the current plight of the University of California serves as an example. The State Legislature voted a 5% cost-of-living salary increase to all state employees except faculties of state colleges and universities. Even library hours have been cut on UC campuses.

Caltech finds itself in a doubly-delicate position as an institution. First, we face the possibility (though hopefully more remote than for other institutions of higher education) of some sort of popular "backlash" against universities and students in general. We also must contend with the current fashion which regards science and technology as inherently evil. Although these pressures must be branded unreasonable, they still exist.

Put simply, the Institute cannot afford to become involved in politics as an institution, regardless of whether or not its members want to. (The wisdom of having the Institute become more political is questionable now anyhow, since we are, and probably want to continue as an educational and scientific institution.) The prospect of getting funds can be dampened even by the appearance of political involvement of the Institute, since many potential donors find themselves personally repulsed by political views commonly associated with students. For example, we are told that the visits last year by Linus Pauling and Angela Davis cost the Institute donations (only 20% or so of the cost of undergraduate education is covered by tuition).

This does not mean that the freedoms guaranteed to all individuals by the First and Fourteenth Amendments should be or are being abrogated. The political activities statement basically provides that people associated with the Institute should not act in such a manner as to have the Institute take an essentially political stand, or represent it as having done so. It guarantees the rights of members of the Caltech community to organize and act, to encourage political discussions, to use Institute facilities as individuals though not as spokesmen for Caltech.

This follows from the obvious axiom that the Institute is basically scientific and educational, and should avoid becoming a political establishment. Common sense, enlightened by the possibility of deleterious consequences for the Institute, should provide most of the answers to questions of interpretation.

However, the policy also raises some serious questions where individual rights and Institute policy may conflict. In some of the more specific provisions of the policy, some of the wording can be applied quite differently to the same situation. One feels that the policy not only speaks against actual representation of the Institute as having taken political stands, but against the appearance of doing so. To what extent this may lead to varying interpretations only time can tell.

Needless to say, this policy, as any other, must be applied dynamically: only through test and interpretation in each case can the meaning of the policy become clear. One cannot cover all of the contingencies in advance. In this respect, the policy may be lacking in flexibility. No visible procedure is evident for interpretation or alteration of the policy, which might deprive the policy both of some of its effectiveness and credibility.

We do not anticipate any confrontation developing over this policy. We do, however, depend on the common sense and good will of all members of the Caltech community to refrain from harming the Institute by misrepresenting its purposes or from harming the rights of individuals which are the hallmark of a free society. Perhaps the political tension in the country which forces the issue upon us will pass, leaving us free from worrying about how this, that, or the other thing will affect our ability to continue as a free, academic society. Until then, we shall have to pay the price of eternal vigilance, with which any degree of freedom is purchased. -Philip M. Neches

## **Caltech Forum: Alternatives For PE**

#### by Elliot Tarabour

My article last week on the physical education requirement has stirred some controversy in the minds of some of those most closely associated with the conflict. This is exactly the effect I had hoped it would have. Therefore, this week's article will relate some of the reaction to the article, specifically a very interesting and informative discussion with Mr. Warren Emery, of the physical education department.

As I talked with Mr. Emery, certain points he made, especially proposals for renovating the physical education requirement, are not public, and it is the purpose of this article to make them known. There be made known.

The present requirement forces the student to take six consecutive terms of P.E. The first proposal suggests that this six term requirement be spread over nine terms. This would allow a student who has ment is given in mathematics in the an extra heavy load one term to skip P.E. that term and make up the deficiency later with no penalty.

The second proposal is to have one required term of physical education a course called something like Fundamentals of Physical Education, which would give those students who have not been exposed to certain activities a chance

are three proposals which he stated to see what they might enjoy. This that I feel are worthy of discussion is to be followed by five terms of and on which students' views should whatever activity the student wishes.

A third proposal is that students exhibiting a great deal of skill may be able to test out of one or more terms of physical education in a similar manner as advanced placefreshman year.

The other and possibly most important thing that came out during our discussion was the attitude of the students toward the requirement and these proposals. So if anyone has strong feelings about any of these Mr. Emery would like to discuss them so drop by the physical education office.

#### Throop Beat

## Two Heads On Huttenback's Shoulders

#### by millikan troll

Dr. Huttenback has been officially installed in his double office of Dean of Students and Acting Chairman of the Division of Humanities. The Genial Dean follows Dr. Hallet Smith, who is retiring, as Chairman of Humanities. Meanwhile, a search for a permanent head of the Humanities division continues, but with little relief in sight (at least very soon) for Dr. Huttenback.

#### Talk to a Trustee

Several proposals have been aired aimed at promoting interaction between students and trustees. As usual, about eight students will participate fairly extensively in the national trustees' meeting in Palm Springs one of these coming weekends. But several other plots may be hatched later in the year.

Among these would be having trustees to dinner at the student houses more often. Also, a plan to have one trustee at a time live on campus for a couple of days has been considered informally. The given trustee would attend classes with students, and perhaps teach some class in his field for a day.

Appologia Department

A few of the items in last week's issue require some clarification. Our latest word is that Don Smith is not resigning as IHC Chairman, despite the article last week. See this week's ASCIT report for more confusing details.

The discussions about the future of Interhouse Dance mentioned in this column last week occurred in the Executive Social Committee, not the IHC, as reported. Just in

case anyone is wondering, the statements made by Robert Cogen in last week's issue are strictly his own opinion, and we offered them for what they are worth.

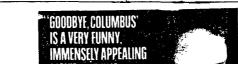
#### **Other People Are Groovy**

Each of the seven undergraduate houses resembles a fortress. This goes beyond their physical construction, which imitates the solid walls, courtyards, and battlements of the Arthurian age of castlemaking. Each house often acts like a closed community, regarding the others with suspicion.

This is unfortunate, since interesting people, well worth knowing, reside in all of the houses. Instead of encouraging suspicion and antipathy, the house system should encourage cooperation and friendship among the houses. Why not have members of the various houses eat at houses other than their own occasionally (or even frequently)? Why not have more cooperative efforts between houses, and more open social events? Other people are groovy, too.

So much for this week's sermonette.

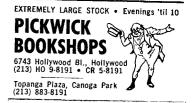
#### DELIMEAT **KOSHER STYLE** Delicatessen & Restaurant LUNCHES DINNERS CATERING FOR ALL OCCASIONS 1770 E. COLORADO BLVD. 796-4373 Parking in rear Nat Zatkin



We hear that the Coffeehouse is doing record business. ... A widespread corn blight may raise meat prices by as much as 25% this fall (corn is the major feed used for livestock). Coffeehouse managers are watching the situation closely.

.. Start thinking about the Throop Three Committee for 1970. We hope to start organizing earlier this year, despite claims of "rushing the season."

The Etaoin Shrdlu Award this week goes to the Faculty Board for postponing consideration of the fate of the physical education requirement for yet another month.



#### CALIFORNIA . Thursday, October 15, 1970 Volume LXXII Number 4

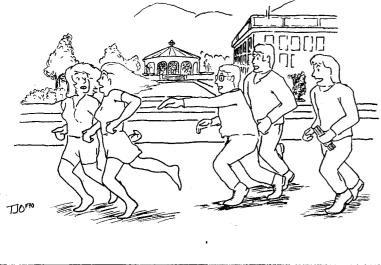
Published weekly by the Associated Students of the California Institute of Technology, Incorporated. The opinions expressed in all articles herein are strictly those of the author, and do not necessarily reflect those of the editors or the newspaper staff. Copyright 1970 by the Associated Students of the California Institute of

Technology, Inc. All rights reserved. Editors-in-Chief ..... Paul A. Levin

Ira D. Moskatel Philip M. Neches Entertainment Editor .... Nick Smith Film Editor .....Dave Dobrin Photography Editor ..... John Fisher Sports Editor ..... Ira Moskatel

Staff ..... John Abbott, Peter Beckman, Patricia Clabaugh, Barry Dohner, Emden Gansner, Roger Goodman, John Garth, Malcolm Handte, Jim Henry, Philip Massey, David Miller, Mike Mariani, Bruce Montgomery, Terry O'Neill, Etaoin Schroedlu, Alex Seita, Bob Standley, Elliot Tarabour, Millikan Troll, Ralph McGee.

MY GOD! THEY SAID WE'D SPEND FOUR YEARS PURSUING ACADEMIC EXCELLENCE .... NOT THE OTHER WAY AROUND!





ASCIT PRESENTS:

Ira D. Moskatel

Paul A. Levin

Friday, October 16

## Goodbye, Columbus

ALI McGRAW

**RICHARD BENJAMIN** 

7:30 p.m. and 10:00 p.m.-Culbertson Hall

Admission 50¢

Photo Staff ..... John Belsher, Steve Dashiell, Karen Eaton, Bill Loucks, Ken Mills, Alan Stein.

Business Manager Marvin Mandelbaum Circulation Manager . . . . Metin Mangin

The California Tech publications offices: 115 Winnett Center, California Institute of Technology, 1201 East California Boulevard, Pasadena, California, 91109. Represented by National Educational Advertising Service, Inc. Printed by News-Type Service, 125 South Maryland Avenue, Glendale, California. Second class postage paid at Pasadena, California.

Subscriptions . . . . . . . \$1.50 per term \$4.00 per year Life subscription ..... \$100.00

## Are We Ready? Man and Science Conference Next Week

by Bill Beranek

Science is the search for order in nature. For many centuries, the scientist searched for these truths essentially ignored or, at best, tolerated by society. His ideas directly affected only the philosopher and theologian, not the day-to-day life of the masses. When man began to use coal for energy and then oil, his power to control and change his environment increased dramatically. Scientific ideas sparked technological advances, which radically altered man's living conditions and his life style.

But was man ready to absorb these changes? Did man achieve this power too early in his development? Clearly the arms race, pollution of all forms, and overpopulation are the result of a successful but, in retrospect, misguided application of this power.

#### Scientific Dilemma

Scientists today are caught in a dilemma. The discoveries of a scientist today can lead directly, via technology, to destruction of our physical or mental environment. Thus, the current anti-intellectualism present on many campuses. On the other hand, one, and perhaps the most important, route from our current environmental dilemma is, in fact, increased scientific knowledge and improved technology. What is the role of a scientist in today's society?

During the first three days of next week, a conference will be held in Beckman which will consider the interaction between the human environment and technological change. People such as 1969 Pulitzer Prize winner, Rene Dubos of Rockefeller Institute, and urban planner, C.A. Doxiadis, are among the top men from across the country presenting talks along with professors from our environmental engineering department. All Caltech students are invited and encouraged to attend any or all of the talks. For detailed information contact the Industrial Associates (ext. 2317) in Throop, consult the schedules posted on bulletin boards or contact Bill Beranek, resident associate of Fleming House.

### **Tech Tenors** Train Tonsils

#### by Roger Goodman

The Caltech Glee Club held a repertory camp last weekend at the Thousand Pines Baptist Camp, near Crestline in the San Bernardino Mountains, in order to prepare for the coming season. Director Olaf Frodsham and Mrs. Priscilla Remeta, assistant director, led the 60 men in about 12 hours of rehearsal.

There is still an opportunity for all members of the Caltech community- men, women, undergrads, grads, faculty, and staff- to participate in choral music at Caltech. Those interested are invited to join the Chorale, which meets each Monday at 7:30 p.m. in the basement of Culbertson. Even those with no prior experience are welcome; meetings include instruction in voice and in reading music.

The repertory camp enabled the Glee Club to learn much of the music it will sing for its many concerts this year, beginning with a program for Parents' Day on October 24, in Beckman Auditorium. Unlike last year, the weather up at the camp was warm, much to the dismay of one member who had filled his radiator with pure ethylene glycol.

Highlights of the camp were the morning calisthenics, the room-stack of the calisthenics leaders, the showing Saturday night of "Flight of the Phoenix," and the view from Inspiration Point.

## The Third Wing Handling Hijackers

#### by Nick Smith

hanging them up and leaving them hijacking. The problem stems from for the flies to eat, as an example for other potential ones."

That was a quotation from United States Senator Long, one of Louisiana's proponents of law and order. There are a surprising number of people who might agree with him. Hijackings have reached a point of public saturation, a point where the public is fed up with hijackings at the drop of a hat. Not only are there hijackings to Cuba and such places from the United States, but now there are capturings for the purposes of hostages and destruction. Such piracy smacks of the pirates out of Tortuga in the days of gold galleons from the new world. Now they're even trying to hijack buses (even though you can't drive them to Cuba) and anything else that moves.

Exactly what do hijackers think they are trying to do? Some of them are fleeing whatever country they are in. Those going from the United States to Cuba often are trying to avoid arrest for major crimes, and can't very well buy a ticket to some other country in order to get to Cuba. (There are no direct flights from the United States to Cuba.) Some are merely trying to make a dramatic point. Some are just too cheap to buy a ticket. Some are at least temporarily not mentally competent, such as the bus hijacking north to San Diego. (I realize that's the Great Circle Route, but the hijacker didn't.) The most dangerous sort of hijacker is the political hijacker, such as the Arab guerrillas. These hijackers not only take the plane for a ride, but keep it, along with the passengers, for use in their little political games.

Actually, the United States has a "Hijackers should be punsihed by major philosophical crisis about the fact that The Western World has long condoned the hijacking of trucks and boats in the case of persons escaping from Cuba and East Germany. Cuba is willing to sign an agreement to return all hijackers to the United States IF the United States will agree to return all hijackers of Cuban vehicles to Cuba. That may present problems, since most the the early Cuban refugees escaped that way.

Two countries which one would think susceptible to hijackings have been successful at staving them off: Israel and Russia. One would think that escapes from Russia would be done by plane occasionally, and that Israel's ElAl would be a target of the Arabs. Neither ElAl nor Russia's Aeroflot have been successfully hijacked, and only part of this fact is explained. Those few news releases about hijack attempts in Russia have indicated that the crew is armed and ready to shoot hijackers, and that the pilots swerve the planes to knock down the hijacker, who generally isn't strapped in with a seat belt. Armed guards often fly ElAl, a definite deterrent. Both airlines, however, are somewhat secretive about their full security arrangements.

Helpful people have suggested mounting machine guns on the walls of the planes, flooding a hijacked plane with sleep gas, and other things, all useless against a skillful hijacker. The only real solutions to hijacking are to either make things so that no one feels he has to hijack a plane, or to convince all potential hijackers that they aren't going to get away with it.

These last two alternatives present the same problems as any measure to prevent crime, in that there are so many different types of hijackers that no one measure will

**Continued on Page Eight** 

PAT'S LIQUORS AND DELICATESSEN

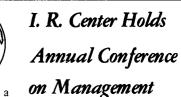
Open to midnight daily, 1 a.m. Fri. & Sat.

1072 E. Colorado

Keg Beer

SY 6-6761

Party Supplies



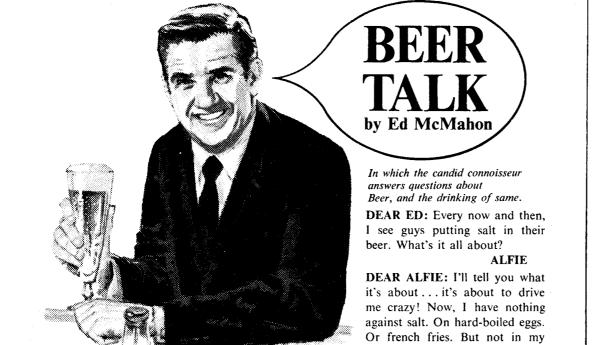
#### by Paul Levin

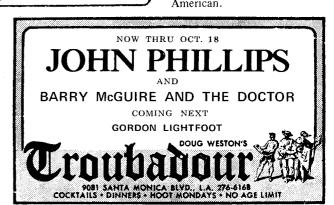
On Saturday morning, September 26, Beckman Auditorium was taken over by Caltech's Industrial Relations Center for the fourth annual one-day conference on Management. This was also under the auspices of the Southern California Chapter of the National Management Association.

Things got off to an unbelievably early start with a 7:00 a.m. breakfast for the speakers, program chairmen, and student guides. By nine people had assembled in Beckman to hear Tech's Dr. Robert Gray point out the possible sources of difficulty in the 1970's. He then gave the group a ten-point code that would help minimize their difficulties.

By about 10:00 a.m. the group broke up to attend smaller lectures. It was possible for everyone to attend two of the ten talks. Since the relative attendance at these talks is connected with a businessman's concern for these problems, a few attendance figures may prove interesting: Close to 200 people attended a talk on "Management Success Through Remembering People's Names," while only 33 wanted to learn about "Managing the Mexican-American Employee," and only 31 bothered to find out "Why Some Potential Black Supervisors Are Overlooked."

Those who left after the second session missed the best part of the conference. Mr. Stary Gange, of the Pacific Northwest Chapter of NMA, gave a stirring talk on what America has and has not accomplished. He confessed that he, too, had been a radical in his day. Perhaps his speech is best sumarized by the changes he tried to effect when he was sixteen years old. He thought the Lord's Prayer should read, ". . . and lead us safely through temptation..." because it is by "withstanding temptation that we build character not by avoiding it." He also wanted the Star-Spangled Banner to end, "...o'er the land of the brave and the home of the free." "Don't you have to be brave before you can be free?" This irrepressible optimist concluded by stressing that while America is not a utopia, he is still proud to be an American.







Bud<sub>®</sub>.

Putting salt in beer, some say, perks up the head . . . or livens up the taste ... makes the beer "drier." With Budweiser, though, all salt can do is make it salty. Because Bud is already just about perfect.

So save the salt for the popcorn, please. We put heart, soul and our exclusive Beechwood Ageing into Budweiser. All you need to enjoy it is a glass . . . or drink it right from the can, if that's your bag . . .

Beer questions? Write: Ed McMahon, Anheuser-Busch, Inc., 721 Pestalozzi St., St. Louis, Mo. 63118



ANHEUSER-BUSCH, INC. + ST.LOUIS + NEWARK + LOS ANGELES + TAMPA + HOUSTON + COLUMBUS + JACKSONVILLE + MERRIMACK

"I think I'll have a pizza." "Et tu, Brute." **ROMA GARDENS BEER & WINE ITALIAN CUISINE** PIZZA SPAGHETTI RAVIOLI 1120 E. Green 449-1948 OPEN 5 TO 12 SUNDAY THRU THURSDAY 5 TO 1 FRIDAY AND SATURDAY



Neil (Richard Benjamin) and Brenda (Ali MacGraw) shower after making love, when Brenda informs him that she never uses any form of contraception in this scene from "Goodbye, Columbus."

## You DON'T???

#### by Phil Neches

"Every father's daughter is a virgin" proclaims the subtitle to Goodbye, Columbus but Philip Roth, the author of the novella from which the film was made, knows differently. Goodbye, Columbus deals with the foibles of the Jewish noveaux riches. All of the sub-stereotypes can be found in it: the over-eaters, the fawners, and all of the rest.

Goodbye, Columbus amalgamates the snide comments Jews make about one another into a single film. Every character in the movie probably has dozens of equivalents in reality, but the entire atmosphere of the film neglects the positive things people can do: the characters, or many of them, are little more than stereotypes which one sees and then says, "How gross."

The film is also wildly funny in blackly farcical in still others. Sometimes, it seems that Roth's humor resorts to the broadsword when it should use the rapier.

Goodbye, Columbus screens this Friday at 7:30 and 10:00 in Culbertson Hall for a mere 50 cents. Sponsored by ASCIT.

## The Critical Right Ear

Bernstein Conducts Hindemith Symphony in E-Flat; Symphonic Metamorphosis of Themes by Carl Maria von Weber–New York Philharmonic Columbia MS7246

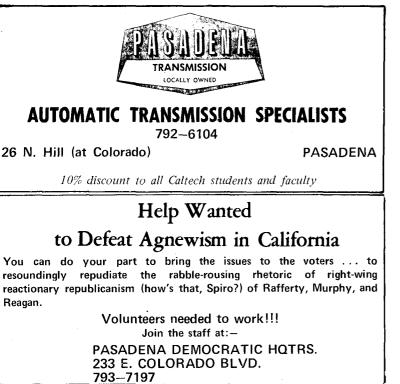
Hindemith's symphony can best be described as broad and powerful. Once the work is started with the fanfare-like opening theme, it has built up an allegro momentum, not fast, but heavy. This momentum flows throughout the entire work, allowing only sporadic moments of excess speed, slowness, or brilliance. The orchestra never seems to stop moving on, through the elaborate first movement, the funeral march second movement, a scherzo movement, a somewhat lighter final movement, finally rolling to a sonorous climax. If a source had to be chosen for the symphony's broadness, it would have to be Hindemith's full and developed orchestration.

If the Symphony was composed while Hindemith was contemplating great things, the Metamorphosis must

have been written while he was thinking about a Baroque fountain. This work gushes music, in a constant flow of joyous sounds. It can be only characterized as brilliant, particularly in respect to the Symphony. Composed in a neo-Baroque vein, the Metamorphosis on four piano themes of von Weber is full of Baroque devices, both in orchestration and structure. Particularly noticeable is the fugalcontrapuntal section in the second set of variations. In general, the variations are spritely pieces, interestingly constructed and more interesting to listen to. Bernstein does a good job with

both works on the record. In the symphony, he sometimes tends to get carried away with the momentum and hides the lighter, but nonetheless important, sections. No similar problem occurs in the Metamorphosis, in which the orchestra, fro the beginning, presents the piece in all its spirit and gaiety.

-E.G.



## Dobrin Critiques Beckman Offerings

#### by David Dobrin

In my article last week, which almost none of you read, I made no mention of the events in Beckman Auditorium. Hold onto your pants, Pearl, here it is. An introductory note. Beckman events are often overpriced; but they give student discounts. Unfortunately, the Master's office is not giving half back. In effect a student pays more for Beckman events than he would going out to Claremont. And at Claremont the scenery is better.

The quality of Beckman events last year could only be described as mixed. The lectures, a regular Monday night feature, were generally quite interesting, but in a larger sense a waste of time like a high class all-night bullsession in the lounge. The film series, the only other regular features, were generally sparsely attended by Techers. The Tuesday Night at the Silent Movies program, a program that continues this year, was a lot of fun. Everybody who went got a little nostalgia, a little education, and a lot of laughs, not all intentional. I can't think of a better way to spend two hours on a Tuesday night. Beckman also gives free tickets to the Coleman chamber music concerts on Sunday afternoons. I am usually sound asleep at those times (occasionally inside Beckman) but these too are worthwhile and little attended events.

#### Special Events

Beckman also puts on plays, concerts, and special film programs which are not regular events. Some last year were awfully good, for example the Kinetic Art series, the Juarez concert (who?), and the Arthur C. Clarke lecture, and some were pretty bad, the Student Film Series, the Bergman flick or the Charles Lloyd concert. I feel sure that this year the same will hold true. Probably it is not a good idea to buy season tickets unless you are unconscionably rich. Choose only the attraction which you are pretty sure will interest you. However pouring a little money into Beckman's coffers is probably not a bad idea. They are close; the overall quality is not too bad and getting out at night is much better than staying in your room, believe it or not.

#### Join the TECH staff and see your name in print.

Be a proofreader and see it spelled correctly.





### About Town

After last week's prodigious effort, a new order did arise: Art should be gotten out of the way first, to leave a stronger impression on those who do not know where to go on weekends.

**Downey Art Museum**, at 10419 Rives Ave. offers an interesting combination of "Man and Machine," where man makes graphics while a computer does the art. Show runs through to Oct. 25.

The Museum of Science and Industry, presents "The Feminine Eye," an interesting series for the masculine eye as well. Applied Arts Gallery, 700 State Dr., Exposition Park; through October.

Los Angeles Art Assn. Galleries, at 825 N. La Cienega Blvd. is having a show in traditional realism; through October.

Pasadena Art Museum, is featuring Mr. and Mrs. Robert A. Rowan's collection of contemporary American Art; (through Nov. 15), and Japanese prints from the Frank Lloyd Wright Collection, through Jan. 24.

Cal State L.A., features "Venice California, '70," with 16 (count 'em), 16 young artists displaying their talent now through October 22.

UCLA, presents "Ceramics, Form and Technique" honoring retiring professor Laura Andreson, now through Nov. 25.

**USC**, offers "New Directions in Chinese Painting," the works of eight artists now showing through Oct. 23.

The County Museum of Art, is still featuring artwork from India and Tibet. (Go, if just to meet new people, you'll learn more while you're there.)

**Occidental**, "Variations," which turns out to be an utterly random collection of paintings and sculptures by four artists.

Scripps College, gives up the largest show with examples of sculpture, ceramics, weavings, paintings, the All Claremont College Art Faculty Show. All at Lang Art Galleries, now through Friday 1:30 to 5:00 p.m. daily.

Lest we forget, at Beckman on the 16th and 17th of this month, Jules Feiffer's "Little Murders" will make its way into "The Big Donut's" carpeted halls with the help of The Century City Playhouse Sunday, Beckman will host the Guarneri Quintet-one of the first in the excellent Coleman Chamber Music Series.

After zapping with that, how about some relaxation?

The Pasadena Civic Auditorium, will host Buffy St. Marie in concert with special guest star John Stewart. Mark down Friday, October 16, at 8:30 p.m. on your calendar. Tickets available at box office, Wallich's Music City and mutual ticket agencies ... a hip thing to do.

Ash Grove, at 8162 Melrose in Los Angeles is now featuring Hoyt Axton doing the blues.

**Dorothy Chandler Pavililion**, Music Center, "Lovely Ladies, Kind Gentlemen," musical version of John Patrick's play, "Teahouse of the August Moon," polished up for Broadway.

The Icehouse, features an all-star cast (us usual) of Chuck Mitchell, Donna Jean Young, Rufus Crisp Memorial Jug Band and Sunday Afternoon Grunion Hunting Society, Keith Barbour, Duan and McCashen, Nelson and Levinson, and Sweet Pain. (How does that grab you!).

**Donte's,** the super fast action at 4269 Lankershim in North Hollywood, is featuring the George Van Eps Quintet along with its regular program of mind- blowing music.

For those hungry Techers who are tired of Five-Fingered Mary, we offer the Immaculate Impulse; happening Friday through Sunday at the Immaculate Impulse Coffeehouse.

Shelley's Manne-Hole, the most tintinnabulating spot in Los Angeles, is featuring (now get this) The Jazz Crusaders, Zoot Sims and the incomparable Al Cohen, plus, every weekend, Shelley Manne and His Men, at 1608 N. Cahuenga Blvd., Hollywood.

Ivar Theater, 1605 N. Ivar, "Ceremonies in Dark Old Men" last week said to be excellent, this week even more so.

**Company Theater**, 1024 S. Robertson Blvd. "The James Joyce Memorial Liquid Theater" Avantgarde fresh, young actors.

Century City Playhouse, 10508 W. Pico Blvd. "Futz," one man's lust and love for his pig is another's bacon.

Huntington Hartford Theater, 1615 Vine Street. "No Place to be Somebody" Gordon's Pulitzer Prize Winner of gangsters moving in on a Harlem bartender.

Long Beach Community Playhouse, 5021 E. Anaheim Blvd., Long Beach. "Don't Drink the Water."

Cal State Fullertonon, 800 N. State College Blvd., Fullerton. "Luv" at CSF and Marymount/Loyola.

L.A. City College, Camino Theater, 855 N. Vermont Ave., "Man of La Mancha."

UCLA, McGowan Hall, "The Night Thoreau Spent in Jail." Story of this nation's first hippy-Henry

Theater's Now Troupe. Also, on this David Thoreau.

CHEVROLET

FRANK D. CLAY & SON

CAL-TECH STUDENTS AND EMPLOYEES! For special consideration on your new Chevrolet Car or Truck ask for ERNIE HAYWARD, Fleet Manager, or JERRY SHEPHERD, general manager.

#### **"SERVING PASADENA SINCE 1922"**

2605 E. COLORADO BLVD. PASADENA 796-2603 ATTENTION INTERNATIONAL STUDENTS Call MARTIN LEWIN TRANSCARGO, INC. 2240 N. Figueroa St. Los Angeles, Calif. 90065

Specializes in Overseas baggage shipping and Commercial shipping. Air-Ocean-Truck Serving students for over 10 years. Tel. 225-2347.

#### Ascit of Seita

### BOD Considers IHC, Coffeehouse, Interhouse Dance, Parking Appeals

#### by Alex Seita

AN APOLOGY GOES TO DON SMITH who was erroneously reported by this column to have resigned as IHC Chairman. He was merely considering the resignation in view of his moving off campus. The B.O.D. will wait for Don's decision to see if a repeal of its motion is necessary (the B.O.D. had accepted Don's supposed resignation and had opened nominations for IHC Chairman).

#### **Coffeehouse Report**

Stu Sando, one of the two coffeehouse managers, announced the successful opening of the coffeehouse on October 5. A folk singing contest highlighted the evening with prizes totaling \$30 and sundry menu items being given to six groups who provided three hours of entertainment. Approximately \$170 remains from the coffeehouse entertainment fund which was granted by ASCIT.

Sando also indicated that the coffeehouse would gross between \$12,000 and \$15,000 this year. Emphasizing the complexity of bookkeeping and importance of the job, Sando urged changes in ASCIT Bylaws and Resolutions requiring the coffee-house manager(s) to hold no other ASCIT office and to undergo a term of apprenticeship before officially acquiring the job. The latter suggestion was immediately adopted by the B.O.D. in the ASCIT Resolutions. Finally, Sando advocated that the coffeehouse be closed during the summer as its losses were \$362.40 for that time.

#### Interhouse Dance Expansion

The ASCIT Executive Social Committee recommended that John Bennett's idea of an Art and Technology Festival be held during 2nd term instead of Interhouse Dance. Bennett reflected that this would be the best time, giving time for publicity by the Institute and an opportunity for the Festival to commemorate the opening of Baxter.

#### Announcements

Fisher reported that the Faculty Academic Policies Committee is now examining the Independent Study Program. Also, a court to which campus parking violations can be appealed will soon be established. This court, jointly proposed by Dean Lyman Bonner and Leonidas Guibas, will probably have representatives from students, administration, and Buildings and

THE CALIFORNIA TECH

## The Good, the Bad, and the Ugly

Although it might step on our film editor's toes, the proper name for this batch of records is The Good, the Bad, and the Ugly.

The Critical Left Ear

First, the Good: Janey & Dennis by Janey Schramm and Dennis Pereca (Reprise RS6414). This is a warm and comfortable album, with almost all of the songs written by the performers. They remind me of Ian and Sylvia or Jim and Jean in the way they blend their duets. They also have a nice instrumental backing, a must for this type of album. It's the good kind of modern folk music, and I recommend this album.

Next, the Bad: BEETHOVEN: SYMPHONY NO. 6 IN F MAJOR, Op. 68, "Pastorale," as performed by Eugene Ormandy and the Philadelphia Orchestra (Columbia MS7444). In truth, I am not an expert on classical music. I listen only to those few composers whose works I enjoy, and little of that. I know only this: Eugene Ormandy has managed to turn a beautiful symphony into a dull, boring. two-bit German equivalent of the Grand Canyon Suite. He uses much of the opus as an introduction for the "Thunderstorm," and then mishandles that. Ormandy deserves to have his baton broken.

Finally, the Ugly: Amon Duul, by Amon Duul (Bell Records PRS1003). The group members are members of a German commune next to the Berlin wall. According to Bell, they cut themselves off from radio, TV, and other things which might distract them from their music. This explains how they got into such a horrendous musical

Grounds. Finally, it was stated that a report on Food Services will soon be published in the California Tech.

ASCIT minutes will be distributed as soon as the mailing list is obtained. The next B.O.D. meeting is at 7:30 on Thursday, October 15, in Winnett Clubroom II.

dead end. It does not explain why they have been put on record. This record is a disaster in unstructured music. The instrumental passages are occasionally almost passable. The vocals are not. Amon Duul is said by Bell to be representative of the music of progressive Germany and the progressive youth of the world. If so, I'm going to burn my birth certificate. Amon Duul is atrociously ugly, with or without umlauts over the "u's."

#### -Nick Smith

#### After the Gold Rush-Neil Young-Warner-Reprise 6383.

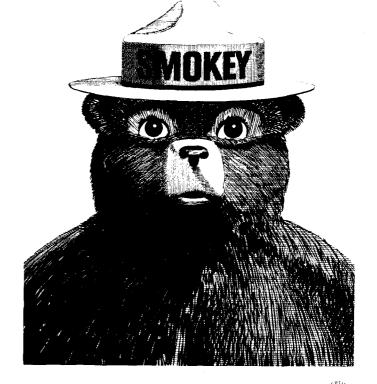
Neil Young is an excellent songwriter and lyricist. Neil Young, along with Steve Stills and Crazy Horse, are excellent instrumentalists. The only two problems are that Neil Young is not the best singer in the world, and he has lousy handwriting. (The lyric sheet is handwritten, a la Joni Mitchell.) If you can concentrate on the music and the lyrics, it's a nice album, sort of a continuation of "Everybody Knows This is Nowhere."

-Nick Smith



## This year about 115,000 people won't listen to Smokey.

## Don't be one of them.



Remember, only you can prevent forest fires. (A)



**Scrumptious STEAKS** Picayune **PRICES** 







#### EXECUTIVE'S DELIGHT

Authentic Colonial on a deep level lot. The interior has been completely redecorated and a new roof has been put on. Center hall plan with high ceilings and large rooms. Living room with an attractive fireplace, den, formal dining room, cheery kitchen, large breakfast room. Four huge bedrooms, 31/2 baths, master bedroom is really a suite with its own bath and adjoining extra room which could be a sitting room, nursery, or a fifth bedroom. Carpeting and drapes. Lovely garden with exotic plantings ideal for entertaining. Loads of room for children's play area. Young family neighborhood. A real buy – \$49,950.

Mary Ellen Moore, REALTOR Successor to J. HAROLD SCHENCK, Real Estate Since 1922 Multiple Picture Listings

744 Foothill Boulevard

790-4463, Anytime

"2 for 1" The WESTWARD HO's Thickest Small Steak Including soup or salad, oversized baked potato, and garlic toast, **Reg. 3.95** Present this ad and get TWO DINNERS for the PRICE OF ONE! Tax and tip not included ENTERTAINMENT DANCING 541 S. Arroyo Parkway - at California Blvd. SY 5-5043 MU 1-8062

## **II-S or Not II-S?**

article is an attorney specializing in draft law.

#### by Mark Petersen

student deferment or you are thinking of applying for a II-S, you should know of the requirements which you must meet to keep that deferment. To keep the II-S during the entire school year, you must carry a "full time" credit load. This is usually several credits less than the average credits you need to take each quarter (or semester) to graduate on time. If you drop below a "full time" credit load at any time, the school will inform your draft board and you will lose your II-S.

If you want a II-S next year, you must make "normal progress" during this school year. This means that by next fall you must complete about one quarter of the total credits you will need to graduate if you are now a first year student, about one half of the total credits if you are now a scond year student, and about three-quarters of the total credits if you are now a third year student. If you are a fourth year student, you may not need to make "normal progress," just be sure that you are a "full time" student. The best strategy for fourth year students will be discussed in a later article.

If you have any questions about how many credits you will need to be a full time student and to make normal progress, see your college registrar or dean.

#### Do You Really Want One

Men born in 1951 who have lottery numbers of 101 or higher and all men born in 1952 should think carefully about whether or not vou should apply for a II-S since you do not now need one. Men born in 1952 cannot be drafted until January 1972; you can get a II-S then. Similarly, draft boards do not plan to give pre-induction physicals now to any man born in 1951 with a lottery number of 101 or more. Since they cannot draft you until they have given you a pre-induction physical you can apply for a II-S when they order you to go for a physical. Until then, you need not worry about being drafted.

If you do not need a II-S, there are advantages and disadvantages to applying for one now, of which you should be aware. The disadvantages to a II-S is that you can never get one again if you ever stop making

Editors' Note-The author of this normal progress. If you are working parttime, if you are worried that you might not do well in school and might fail or drop a course, or If you have applied for a II-S if you might drop out of school for a while, you may fall behind in credits. If you do not make up those credits you will not be able to get a II-S next year. However, if you do not apply for a II-S now, you can drop as many courses as you want and still get a II-S next vear.

#### Then Again . . .

Although there are disadvantages to taking a II-S when you do not need it, you may still be wise to apply for a II-S now, since Congress may abolish student deferments. Even if student deferments are abolished you may be able to keep a II-S if you apply for one now.

President Nixon asked Congress to abolish student deferments during this last term of Congress. Congress did not do so because there was still middle class political support for student deferments. However, students are becoming more and more politically unpopular as the country becomes increasingly polarized and as students protest against the increasingly repressive government. The draft law expires in 1971 and there is little chance to substitute a volunteer army for the draft. Rather. major changes may be made in the draft, such as the abolition of student deferments. Such a change has the support of both liberal and conservative congressmen.

#### Even So

Even if student deferments are abolished, you probably will be able to keep a II-S that you had before a certain "cut-off" date. The cut-off date will probably be later than the April 23, 1970 date requested by Nixon and will probably be sometime during this school year.

If you feel certain that you will take enough credits this year to make normal progress, you should probably apply for a II-S. You could then have a II-S in the future, even if they are abolished. If you feel that you will have difficulty taking enough credits to make normal progress, then you probably should not apply for a II-S now. You should take your chances that Congress will not abolish student deferments and apply for one next year when you really need it.

If you have any questions which you would like answered by a draft lawyer in

this paper, write to: Mark Peterson

19½ Horizon Avenue Venice, California

## FOURTH Is Too Short for 3 Col.

#### by Robert Geller

Although it is true that every hand is unique, there are certain common concepts which roughly define (If you are a math major go to jail, do not pass go, do not collect two hundred dollars and substitute "partition" for "roughly define") the strategies which should be invoked on most hands. For example, the innumerable tactical variations of defensive card play are all used to serve one of two strategies. A defender may choose to play a passive game, taking no unnecessary chances, or he may prosecute an active policy, vigorously attacking, attempting to set up his tricks before they vanish.

Broadly speaking, if both opponents have shown balanced hands, a passive line is likely to be best. There is little point in launching desperate attacks to set up tricks you are certain to take anyway. If the opponents have shown hands which are likely to provide discards it is very unlikely that attacking will prove wrong. Anything given away by a headling assault is unlikely to give away the contract. If the defenders tricks are not established at once they will surely vanish on the opponents long suits.

Don't Just Go Limp

That is as far as the average player gets. There is however an even more important consideration. If the opponents bidding has been confident, attack is almost always the only way to set their contract. A passive attitude will not give away overtricks, but it may give away the contract. A certain amount of creativity is an essential ingredient in a good defender. If his hand contains no unpleasant surprises for declarer, he will try to create some.

An illustration of correct defense is contained in the story of today's hand, which spotlights California Tech Movie Editor Dave Dobrin. Looking at the West hand in the recent San Francisco Regional Knockout Championship, Dobrin had every reason to feel very depressed. His opponents bidding showed that there was every reason

to expect them to make their four heart contract. After South had opened one no trump, showing sixteen to eighteen points, North bid two diamonds, transferring the heart contract to the no trump hand. North then bid three no trump, asking his partner to prefer a heart contract with three or four hearts. South bid four hearts, revealing to West that declarer and dummy had an eight or nine card fit.

#### Kamikaze Lead

At this point Dobrin knew the opponents had at least twenty-six high card points in addition to their eight card fit. His hand, and therefore his partner's, was flat, providing no unpleasant distributional surprises for the opponents. Obviously four hearts would not go down on its own - it needed a little help from the defense. Accordingly West found the killing lead of the club king, creating a ruffing trick for the defense. Although South tried to forestall the ruff by playing ace and another heart when he took the club king with the ace, there was no possible counter to the brilliant lead.

North SJ4 HQJ1086  $\mathbf{D} A K 9$ C 8 6 2 East SA 1065 **S**9732 H 7

7.6	D 4 3 2
	CQ974
South	
S K Q 8	
HA94	3
$\mathbf{D} \ Q \ J \ 5$	
<b>C</b> A J 10	)

3

#### North-South vulnerable The **Bidding**

	THE	Diadin	g.	
Se	outh	West	North	East
1	NT	Pass	2 D	Pass
2	Н	Pass	3 NT	Pass
4	Н	Pass	Pass	Pass
0	pening	g lead:	king of c	lubs.

Anyone who still believes in the tables of recommended leads in texts should note that if West's

## Classified Ads

West

HK52

**D** 10 8

**C** K 5

### FOR SALE

Lightweight motorcycle, ideal for student. 48 cc. Italian made, new. 100 miles/gallon, 39 miles/hour. \$150. 684-1365 or 466-5141.

### **HELP WANTED**

TRANSLATORS

with scientific training required. All languages and disciplines. Free-lance. Send resume to Box 5456, Santa Barbara, Cal. 93103.

clubs had been K Q xx the orthodox lead of a club will give away a club trick - but declarer could always have discarded one of dummy's club losers anyway. Whenever the opponents bound into a suit game an aggressive defense will work more often than you think. Today's hand, for example, won West's team twelve international match-points and the match.

#### The Bridgelorn

If you have committed some brilliancy at the bridge table, or if you just needed someone to commiserate with about your partner's stupidity write to the Bridge Editor. California Tech Box 848, Los Banos, California 93635. We're always anxious to use any suitable hand, with credit given where due.

#### FEYNMAN from page one

they exist at all? Or do they exist only in connection with other quarks? Will a physicist ever be able to point at a spot on a photographic plate and say, "There was a ouark?

The quark model has been shown as a workable model-so far-but, for the time being at least, it is still. being tested. "I think we're at the first stage, that we can't say that there are or are not quarks," Feynman concluded.



SPECIAL DAYTIME OFFER for Caltech students, faculty, alumni. and employees over the age of 21.

Good from 12 noon to 3 p.m.

A sandwich and beer for \$1.00. (Your choice of eight sandwiches) Upon presentation of Caltech ID.

**PLUS TOP ENTERTAINMENT!** 

### BABY DOLL RINDY MARTIN TONI FELICE KITTEN JOANIE ALLEN





Get a-gnew 1/2 price stereo. You won't say nix-on that !! - 100 wt. Harmon Kardon AM-FM, SR Spkrs, Dual 1209, Shure, reg. \$525/We sell \$263; - 75 wt. HK FM, HK Cassette, Garrard, SR spkrs, \$489/245; - 40 wt. AM-FM, Garrard, SR Spkrs, \$251;126; - Garrard, spkrs, AM-FM Stereo \$180/90; - Miracord \$136/85; - Koss \$25/13; - PRO Phones \$50/25; - Garrard \$53/30; -3 spd. snd. on snd. deck \$160/80; -15" 4 way spkrs \$230/115; - 8 track deck \$70/35; - Scotch Lo-Noise Tape 2400' 10 for \$22; - 1800' 10 for \$20; - No. 150 - 1800' 10 for \$17; - Lifetime cassettes C60 10 for \$7; C90 10 for \$11. - University Stereo, Student Co-op, Pink Garage, 3378 Overland, West L.A. 839-2216 or 4626 (rear of HO Toys) Van Nuys Blvd., V.N. 981-1731. M-F 1-9, Sat. 10-5. Clsd. Sun.



TYPING, term papers, technical reports, correspondence and resumes typed in my home. IBM Executive Typewriter. Patricia Clabaugh, 792–1641.

SUMMERHILL STYLE DAY CARE Licensed vegetarian home. Over 2 years. Alhambra 281-6544.

Crestline Cabins and Lodge for groups. Weekend and holiday reservations, call (213) CA 1-6849. Brookside Lodge.

You, too, can take out ads in the California Tech!!!! \$1.50 per inch plus 20¢ per extra line for Classifieds. Bring ad copy to the Tech office, or phone Caltech extension 2154. O.K.?

Cover charge reduced to 50¢ on Monday thru Thursday nights; waived on Sunday, Friday, and Saturday with presentation of Caltech student, faculty, alumni, or employee identification card. SPECIAL NOTICE:

A film company will be shooting at the Hi Life on Sunday, October 18, at 6 p.m. Our best dancers will be there. You are cordially invited to attend.

#### Page Seven

## Matadoreans Millered in Magic Kingdom Is Bright Spot

Loval readers will remember that last week Garble Tom Headweak, canceller of Matador College, had thrown aside the burden of greatness to sally forth on a crusade to rescue Disneyland, the fabled Magic Kingdom, from desecration by the insidious hippies. Arriving with his loyal band of Matadoreans, Garble Tom proceeds to enter the GE Carousel of Progress after rather disappointing visits to Old Abe and the Matterhorn. We enter in the 20's to find General Electric singing his last "goo goo ga-joob."

The people on this stage proceeded to sing, "Does the chewing gum lose its flavor on the bed post over night?/If you leave it in the morning will it be too ahard to bite?" until revulsion set in, then one of them said, "Only nineteen hours till the gin in the bathtub is ready to drink," and the theatre started to turn to the tune of "Yes

#### Big, Bright, Green

The man in the Forties set glared at the audience for a moment, then growled ,"all my friends have terminal cirrhosis of the liver from drinking bathtub gin twenty years ago, there's a war on and eggs are 25 cents apiece on the black market, and GE won't fix this stupid refrigerator because they're making fluorine-proof motors for some government boondoggle in hillbilly hole called Oak some Ridge, Kentucky. How've you been?" When nobody answered, he turned on the radio, which sang, "Are you worried and depressed?/ Can't seem to get no rest?/Put our product to the test, feel just tfine pleasure machine! Our limited a week."

supply is almost gone." He turned the radio off and moaned "Simon and Garfunkle in the Forties! Even if it was saccharine, this place used to make sense. . .Get lost, I'm going to escape my troubles."

As the theatre started moving, a diffuse green radiance covered the stage and Simon and Garfunkle sang "Buy a big bright green pleasure machine/All is groovy/ Within the well of silence," and the bewildered Matadoreans stopped in the future section, where the man in the gleaming living room stood up; spread his arms, andsaid, "The final triumph of the pleasure machines! You're a lot further in the future than you think. We're all robots." "I'm not!" screamed a voice from behind the chair. A boy stood up and howled, "I'm real! Look, I can raise my left foot!" A bluish flash flared from his leg, the lights went out, and the room was filled with the pounding roar of a big diesel engine revving down under an overwhelming load, clashing of gears, jingle of a small part flung against a wall by an enormous force, wracking screech of a thick shaft stopping as its bearings froze: GRRAUDERAUDERauderunchcratingg! shpweEEAck! In a robotio monotone the boy's voice said,"Ireally-did-it-this-time- didn't-I-pop?" "Yes you did. Now say the magic ords." "The-haunted-house-it's all-done-with-mirrors." Various screeches, chugs, and roars indicative of reviving machinery faded into inaudibility as the lights blearily returned. The father said, "You may be an android, but you're still my son. You do that again and I'll cut the hundred -cycle now.../Buy a big bright green component out of your current for

#### **Robots All**

He turned back to the audience and said, "Yep, no more humans on earth. Kind of peaceful now. Oh, there's a great big beautiful tomorrow/When the people have all gone away./A man has a dream and that's the start/He follows the dream with mind and heart/And when it becomes a reality/There are no more men, all that's left is me... And remember, it was only possible because of General Electric, Sylvania, Westinghouse, Con Ed, PG&E, and others too numerous to mention." One more turn of the theatre and the Matadoreans could escape, past the model of the future city, seeming, as they passed with the words of the robot ringing in their ears, terrible in its ceaseless upeapled bustle.

Garble Tom led them across an empty open space (a parade on Main Street had drawn all the crowds) to the Bell Telephone 360-degree American panorama. And nine screens proclaimed that in Panicvision and Kodakhorror this was The Living Swamp from Outer Space. And as a flying saucer arced down from the sky to disgorge a barrel of sentient spinach soup, a soft boice announced, "We were going to have Creedence Clearwater Revival play for us, but they couldn't come, so we got the next best thing." The green stuff formed a pseudopod and flowered forward. "Here you see the creepin' thick water's arrival."

Garble Tom could take no more. When the hastily-assembled force of ticket takers and trash sweepers caught him, he was running through the forests of Frontierland with an Excedrin bottle in his hand, looking for woodpeckers.

### Tech Photographer Alinsky At Engineering Conf.

#### by Peter Beckman

"Research in Electrical Engineering" was the title of a seminar held October 6 in 102 Steele. Its purpose was twofold: to give new graduate students a chance to meet the Electrical Engineering faculty and learn what they were doing and to give each of the professors an even chance in grabbing grads for his own research project.

#### \*\*\*\*

Dr. Peter M. Rentzepis of the Bell Telephone Laboratories gave talks on "Spectroscopy with Picosecond Lasers" and "Nonradioactive Processes in Large Molecules" October 8 and 9. The high point of his lecture came when he was temporarily blinded by an intrepid Tech photographer who popped a flashbulb about three feet in front of his face. Dr. Rentzepis also remarked that Professor Amnon Yariv knew more about the picosecond lasers than he did; this comment caused puzzlement among certain Chemistry and Chemical Engineering majors who, apparently, still think that Steele is a metal.

#### \*\*\*\*

The Great Electrical Engineering Surplus Stock Sale is still continuing this week in the sub-basement of Steele. The surplus storeroom stock, mostly old lab equipment and items bought on speculation, must go to make room for newer and more expensive gadgets.

There are still great bargains in semi-operational power sources and stoneage meters, and prices will continue to be slashed until everything is either gone or free. If you find something you want check with Jim Campbell or one of the E. E. trolls that live down there.

Continued from Page One research. Any time we got to

something he was planning to speak about, he stopped us. "If I have to say something twice, it bores the ---out of me." He then proceeded to tell us stories about his career as a professional rabble-rouser.

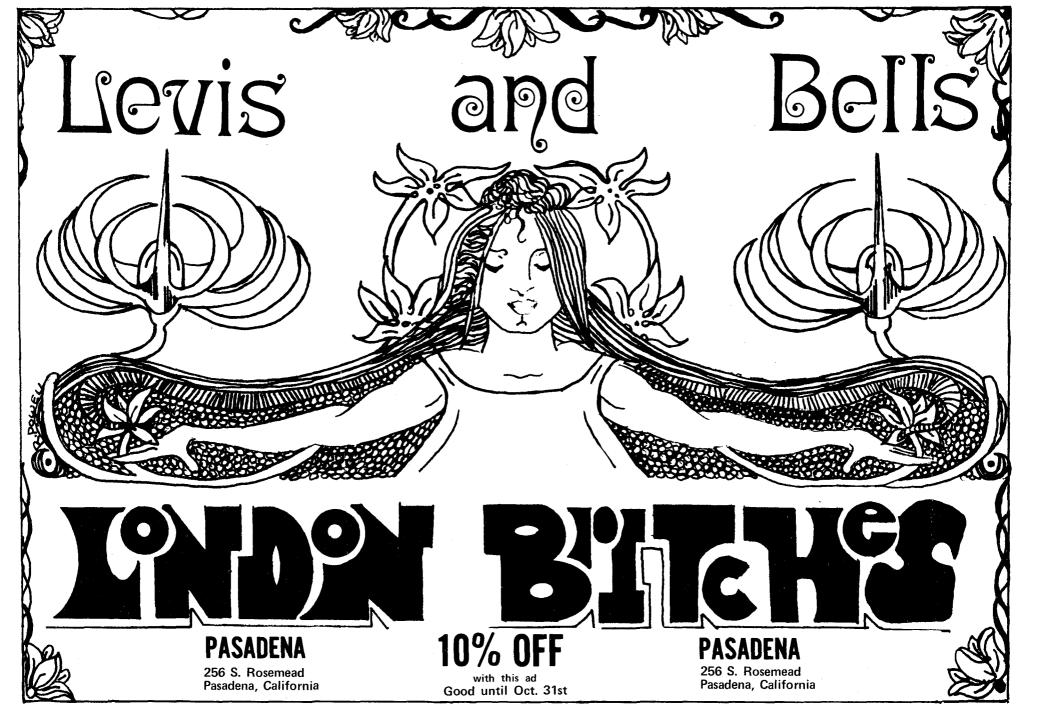
He graduated from the University of Chcicago in Archaeology. When there were no jobs available in that subject, Alinsky found himself a fellowship in criminology. His first project was to meet the Capone gang. After several futile attempts, he got in with a Capone gunman, and was able to learn about criminals from the inside track.

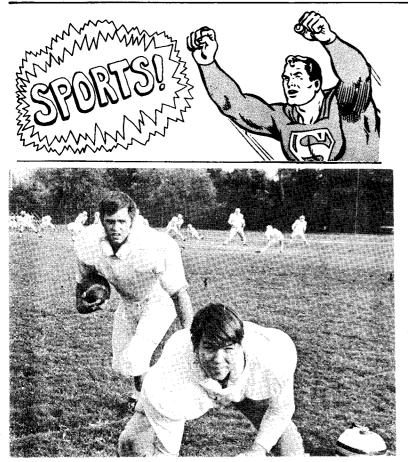
The experience proved worthwhile many years later. On the way back to Tech, Alinsky described an incident in Los Angeles on the same freeway we were travelling. A hired assassin attempted to force Alinsky's car off the road in the L.A. Cloverleaf. Alinsky had noticed the man in the car following him and had psyched out his intent. When the man took action, Alinsky was prepared by his experience for a counterattack. The man's plan backfired and the assassin's car found the fate intended for Alinsky.

Is Alinsky impressed with himself? Only moderately. In an introduction for Alinsky, one speaker described him as having "probably outraged the most number of people of any one man in recent history."

Proclaims Alinsky as his only "The man objection: said probably."

> The California Tech is public spirited [and short of copy].





Players of the Week-Fullback John Morton (Soph) and guard Frank Hobbs (Frosh) have been named this week's Players of the Week by Coach Tom Gutman. Come see them in action against LaVerne this Friday at 1:30.  $-Photo \ by \ Mills$ 

### Caltech Spikemen Win on Road, Lose at Home

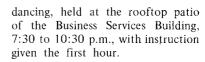
Caltech's spikemen ran behind Azusa Pacific Tuesday afternoon on Caltech's home course at Brookside, 22–33. Team captain Martin Smith came in third, five seconds behind Azusa's two front-runners.

The Brookside Park Cross Country Course was dusty and smoggy but fairly cool. Azusa's front runner slowed up enough for Smith to catch up in the sandy portion of the second mile, but left the Tech letterman behind on the firmer terrain.

Caltech beat Cal Lutheran at Thousand Oaks last Tuesday 17-45.

#### Israeli Folk Dancing A Great Success

Sunday, October 11, was the first session of Israeli folk-dancing at Caltech. It was a great success, judging by the fact that the girl:boy ratio was 2:1 the right way. This is a weekly activity sponsored by the Hillel Club. You do not have to be Jewish to enjoy Israeli folk



lemonade, and meet a real, live Dean of Students.

11111111

#### Open-House Succah For Caltech People

A Succah, sponsored by the Hillel Club, will be available for all members of the Caltech community on Monday, October 19, from noon to 6 p.m. For those who don't know, this is a structure built to celebrate the holiday of Succoth, or Tabernacles. There will be wine and cake served therein. All Caltech people are invited. The succah is located at 449 S. Wilson.

-Photo by Eaton

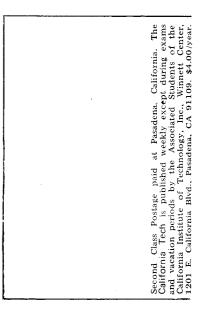
#### Hillel Club Meeting Monday

Genial Dean-Robert Huttenback's Dean's Office Annex is open regularly during

lunch on sporadic Wednesdays throughout the year. Come and eat doughnuts, drink

In Clubroom 1, Monday afternoon, October 19, at 5:30 p.m., there will be a general meeting of the members of the Hillel Club. Current and future business will be discussed. Following the meeting, the participants will visit the Succah and finish off all the wine and cake left over from the open house.

Join the TECH staff, get in on the G&C.



### The Third Wing

Continued from Page Two deter all of them. Perhaps Senator Long's idea would discourage a few, but so would burning them at the stake. The real problem is that a hijacker doesn't think about getting caught when he starts off. Or perhaps he does, and is suicidal, in which case there is no deterrent in increasing penalties. Or perhaps he is so fanatical that he is willing to risk any penalty in the name of a cause. Metal detectors have seemingly prevented some hijackings by making it difficult to carry a gun aboard, but more often they have intercepted Mafioso and women with metal brassiere supports. If every person going aboard every plane were checked with metal detectors, hijackings would at least be drastically reduced. Something must be done soon, or else flying will go from the safest means of travel to the most dangerous.



Warning: The Surgeon General Has Determined That Gigarette Smoking is Dangerous to Your Health.

By Act of Congress, the above warning must be placed on all cigarettes manufactured for sale in the United States on or after November 1, 1970.

#### U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service

This space contributed as a public service.