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The Caltech bookstore now stocks all three volumes of the Feynman Lectures on Physics in paperback in addition to the first-edition versions. The paperback version must be purchased by complete sets (35.95 for $28.40 clothbound) rather than by individual volumes. This new price is applicable to both the new and old trustees. Some claim that the horsepower editions won't make as much noise when they are hurled into trash barrels, but proponents of paperbacks are quick to point out that paper burns better.

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Who Shall Represent The Workers?

by Ken Mills

Two months ago, just after the history making signing between Delano grape growers and Cesar Chavez United Farm Workers Organizing Committee (UFWOC), it was announced in Salinas by that valley's growers that they had negotiated, on union contracts with the Teamsters Union to cover their field hands. When the dust settled, California had the largest farm strike and boycott in its history going full swing.

This relates to Caltech in a very direct way. Don Guilliam, Food Service Director, has informed me that he is purchasing UFWOC label lettuce, and this may be one of the first such commitments by a college or university in Southern California. As such, it would be enlightening to put forth the history of the farm workers struggle in order to more fully understand the importance of this action.

Five Years Ago

The farm workers' movement began approximately five years ago, with a then little known man by the name of Cesar Chavez. At that time, as head of the National Farm Workers Association (NFWA), Chavez called a strike boycott in the California table grape industry. The movement rapidly gained momentum, and soon became a cause of national prominence.

The issues then and now are equitable and uniformly of the farm workers. It is the fact that farm workers live in conditions that have been termed "dilapidated" by the United States Senate. As of 1967, farm workers in California averaged $2,304 per year. This is due to low wages ($1.60 to $1.85 per hour), and idleness forced by the inconsistencies of the harvest system. On the average, farm laborers work 30 days of 10-hour days. An 85-hour work week is considered necessary to the industrial workers - a statistic they have no control over.

Wages Not Primary

Wages, however, are not the primary consideration. What is, however, is that farm workers live in a very inferior environment. 80% of farm workers family dwellings are considered unsafe to the health of the occupant; in many cases, the housing is totally unfit for human habitation. 1 in 3 dwellings has no toilet, 1 in 4 has no running water, 1 in 3 dwellings lack electricity. The Teamster contracts, and hence the UFWOC label lettuce, have signed agreements to keep the workers work in their current living conditions.

Absenteeism

One of the main issues is absenteeism. At Cesar Chavez's request, the Salinas valley paper (the Monterey County Journal) conducted a poll of the workers. 5,000 workers were willing to sign contracts with the Teamsters. It has been argued that these agreements are a way of stripping workers of their right to elect their representatives, and are a way of stripping workers of the right to elect their representatives. This is the only solution.

Interharvest Corp., one of the companies that reversed its position and signed with UFWOC, admitted in court that the Teamster contracts were signed under "duress." The Teamsters represent the workers; and this is simply not true. Elections were never held prior to the signing of the Teamster contracts, and hence the UFWOC label lettuce, have signed agreements to keep the workers work in their current living conditions.

Who Shall Represent The Workers?

The workers want Chavez. They have served for an average of four years, though a fifth of them have served for an average of ten years. They have served for an average of forty years, though a fifth of them have served for an average of ten years. They have served for an average of forty years. They have served for an average of forty years. They have served for an average of forty years. The fund drive is held once a year, and some of them had to come a long way. The Trustees, well appointed, are competing for the support of the people who have served for an average of forty years.

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Facts On Drugs Are Hard To Find

by Ira Moskatel

The poll seems to be an established method by which American politicians express their opinions. The activists of Right and Left have also chosen to use surveys to prove their theories on the use and abuse of drugs.

A number of studies of the use of hallucinogens have been made on university campuses in the U.S. Three years ago such a study was made by former Caltech staff psychologist Kenneth Eells on the Caltech campus. Over 90% of the student population returned the questionnaires. The questionnaire was written with the standard double-talk questions designed to ferret out inconsistencies in answers. The resulting analysis probably was as good as any ever made, simply because the poll covered the entire campus.

Most surveys of this sort are not so carefully made nor so representative. Administrators at St. Norbert’s College in De Pere, Wisconsin, wanted facts about student drug use. They picked a random sample of 240 students, to which they distributed printed forms. All of the students replied with answers. The original 240 constituted a small fraction of the student body, 100 replies on a totally random choice were used to model the activities of a student body tens of times that size. In a drug poll such data could be misleading. My point in the above descriptions is the following. There is a lot of literature on the market claiming to represent the “facts.” Most books are merely polemics. All of the literature has a bias.

In the YMCA drug library there are a number of the less biased survey reports, as well as explanations of the legal statutes and implications. The New Social Drug, edited by David E. Smith, M.D., is an anthology of research reports and legal perspectives. The authors of the excerpts are prominent scientists and lawyers—and none claims that he is unbiased. Each, however, attempts to present as fair an evaluation of their own research.

Gilbert Gets is a sociology professor at Long Beach State College. In “Social and Epidemiological Aspects of Marijuana Use,” Gets examines the methods by which marijuana use is propagated. He traces the history of marijuana surveys and resultant legislation. The late Foofoo La Guardia, mayor of New York during the 40’s and a member of Congress prior to World War II, conducted the first survey, believing that the drug was not harmful. Oddly enough the results of the investigation were that the weed was probably a harmless euphoric (in paraphrasing, I quote ex-Tech editor and continuing disciple of cannabis, Mike Meo). Odd it is since the investigators were six New York Neros.

Marijuana—The New Prohibition, by John Kaplan, a law professor at Stanford, is an analysis of “medical and social evidence on America’s third most widely used drug.” It is a polemic and makes no bones about it. The author is an expert and writes in the form of a text—it is not a light style.

There are a number of such references in the library in the Y, put together by Institute Psychologists Nancy Bratik and Ian Hunter. If you’ve got problems, go to Ian, Nancy, after checking the Drug Library.

25 years of hard labor for $1840.

This year, everybody’s introducing a new “Volkswagen-sized” economy car. So not to be outdone, we’ve done the same. Except, of course, we didn’t have to start from scratch. For years, while everybody else has been borrowing from models to model and worrying about looks, we’ve stuck with our original and improved the way it works. And so today, while ours may not look like the newest economy car, it’s the most developed.

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Best of all, even with all this, our new economy car costs only $1840. So compared to all the others, even if it doesn’t look the best, maybe now it looks the best.

See the Yellow Pages for the dealer nearest you.
graphs before Surrealism, 50 pics. through Dec. 13; The Rowan Collection of Contemporary American Art, Chinese snuff bottles, prints from the Frank Lloyd Wright Collection.

UCLA "Ceramics, Form and Technique," continues through Nov. 25. Honoring Prof. Laura Anderson; selections from the Cordes and Grunwald Graphic Arts Foundations.

"Last we forget," are you ready for this?

Bickham Auditorium William T. Johnson "Science and the Arts" on November 7; "Dr. Jekyll and Mr. Hyde" and "Cat and the Canary" silent films November 10; Virtuosi Di Roma, noted Italian Chamber Music Ensemble, November 13; Baritones Jane Goddell "My Life Amongst The Wild Chimpanzees," November 14; Karl Kohm, second in the Coleman Chamber Music Association Series, November 15.

And now after midterms try these on for size:

Dunne's Terry Gibbs Quartet and the Bud Shank Quartet, 4269 Lankershim Blvd, North Hollywood.

The Ice House would you believe John (California Bloodlines) Stewart, Kajsa Ohman and Maggie all this week and next at 24 N. Mentor Ave.

Shelley's Man-Hole features Thelonious Monk all this week. IHC Immaculate Impulse Coffeehouse, Wardian Ohman and Maggie all this week and next at 24 N. Mentor Ave.

For those who are extremely hungry among midterms, we suggest 890 E. California Blvd. -RWM

THE EXCHANGE


-1949 Hot Throbbing Rivett

SESTONA I

As I now sit and think of smoking grass I wonder, though I have some numbers rolled and surely could light up a random joint to get my head extravagantly blown I've ambiguity at being spaced. Should visions waver like green fragrant fields of pot?

It's been some years since I discovered pot. Since then I've flown a thousand trips on grass. These years contain these incidents which spaced, mark my emerging self; these years have rolled behind me far to quickly, winds have blown me out of Hamlet's hedges, "the time is out of joint."

My ownership of memoirs is joint:

scene, shadows of my mind, and some of pot; Some lucent crystal glassware, calmy blown Some phantom embellishments of the glass Yet all these figments in my brain are rolled and welded, lumped together, co-existent-spaced.

Mankind was once Earthbound, we now are spaced. This planet felt too small, we split this joint and solemn cosmic peaks of thunder rolled Too long the fire seethed beneath our pot; Too often hardened rock above the grass.

And so into the depth of boundless night we're blown.

Oh, many a cracking reiter I have blown And often have I been supremely spaced. I've felt attuned to God and Grin and Grass and seemed some holy junctiQn, pious join But such illusions mostly went to pot and since beneath steam-roller-manic truth been rolled.

Right now life's weighted dice are being rolled and when at last this final trump is blown there wont be any further need for pot, there can't be any way of getting spaced. Someday I'll be disembowed joint by joint by mindless worms, six feet beneath the grass.

So why should I get rolled? In time I'm spaced And ultimately blown. Well now, forget that joint:

Why bother smoking pot when "all the flesh is grass."?

Jon Post

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THE CALIFORNIA TECH
November 5, 1970

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Grand Prix
Is Hall vs. All
by Alan Lederman
For the American sports car enthusiast, the highlight of the auto racing season is the L.A. Times Grand Prix. For the Caltech auto enthusiast, The Caltech Forum was Jim Hall, Caltech engineering grad, turned renegade racer. The center of interest of the Grand Prix was Jim Hall’s “Chaparral 2J,” a car with such revolutionary design as to differentiate it from all others in the race. In fact, the Grand Prix was in some sense hall vs. all. “Chaparral 2J” has moveable fins, fans, and aerodynamic parts which under strict interpretation of SCCA (Sports Car Club of America) and FIA (Federation of International Auto Racing) rules, would have disqualified the car from racing. Other drivers complained loudly, their two main points being the following:
(1) Although perhaps technically legal, the Chaparral cars were not appropriate in competition against the standard cars.
(2) It seemed a precedent of allowing Chaparral cars to race be set, and Hall successful, all entrants would want to buy Chaparral cars at heavy cost. This would sharply reduce the number of entrants, dramatically and turn racing into solely a sport of wealthy capitalists.
Thus all eyes were on Jim Hall Sunday in perhaps the most significant race of 1970.

Dear Dr. Hoogen-Smit,

It is true that the Institute is a collection of individuals as you said in your response to John Lehman’s letter, but individualism does not necessarily require isolation. If all the individuals at Tech want only about their own business, the Institute’s actions would come to a standstill.

There is considerable student interest in environmental action, and this interest needs direction. (An example of this interest was the cooperation between students, the Secondary Schools Relations Office, and the Pasadena school system in presenting a program at Pasadena High School this interest needs direction. (An example of this interest was the cooperation where Tech students gave talks to high school classes about several phases of ecology.) Actions such as the Clean Air Auto Race and the ASCIT influence, must accept the bulk of the responsibility of directing action. This “big difference” lies not in bypassing group action for fear of committing other individuals and only taking individual action, but rather in its lies in finding those individuals who are interested in taking action and channeling these actions in a common direction to achieve a major goal.

—James E. Price, ’74

Invites you to choose from 35 "WAR-HORSES" and the unusual from the London Stereo Treasury Catalog of Classics

It has been a few weeks between columns, but the show at the Ice House was definitely worth the wait. This is one of those weeks when everyone should go and see a feature.

The show starts off strongly, with the weakest of the three acts, a rock group called Maggie. If they show some of their recording, perhaps they might be more reasonable, with electric, more appealing melodies, and pedestal guitars, along with drums and electronic piano. However, they insist on going on, which is their definite weak point. Rock groups would do well to lower their volume when playing at the Ice House. Maggie reverberated the audience to death at times.

The second act was a girl named Kajsa Ohman (how else would you spell Kajsa?) who played electric guitar, mandolin, and fiddle?) and is a good guitar player. If you have ever liked anything done by John Stewart, go and see him at the Ice House. Also, John Stewart tends to get interesting backup on his guitar. The third act was a girl named Kajsa Ohman (how else would you spell Kajsa?) who played electric guitar, mandolin, and fiddle?) and is a good guitar player. If you have ever liked anything done by John Stewart, go and see him at the Ice House. Also, John Stewart tends to get interesting backup on his guitar. The third act was

—James E. Price, ’74

1515 E. Colorado Blvd. Pasadena, 684-2775
Trustees, Tcherhs Exchange Ideas

Continued from Page One

nothing specific was supposed to), students and trustees came to the realization that each group con­
tained a diversity of opinions and life styles. Also, a basis for further dis­cussions was created.

In the recents that followed, small groups of students and trustees continued some of the discussions which had started in the larger group. Interestingly, some students and some trustees sought specific members of the opposite group with whom they had apparent disagree­ments, many of which were resolved in completely informal groups of two or four.

When the meeting reconvened, the graduate students had their prime time. Bob Putnam explained the origins and purposes of the Graduate Student Council, and some of the frustrations associated with heading it.

The problems of the graduates in many ways seem the reverse of some undergraduates, as explained. Graduate students have a tremendous diversity of interests and life styles, which makes rep­resenting their views difficult. The GSC, he related, was formed at the behest of the administration and faculty, rather than spontaneously by the graduate students themselves, and hence has taken on somewhat more independent life.

Caltech students, both graduate and undergraduate, have something unique to any student body, Geoffrey Magnus in his presen­tation, namely, that the faculty respects both them and their ideas. He informed the trustees that Caltech students find that they can deal with their professors on an "equal" basis, rather than as the lowly, unlearned soul who does not impose on any professor's time, a condition too prevalent at other colleges and universities.

Jennifer Tuchman reported on the singular problems of female gradu­ate students. Uncertainty in the choice of a professional life rep­resents one of the major obstacles for this particular minority group. The presence of women on the voting eligibility faculty, especially in the science departments, would help, she indic­ated.

After more general discussion, the meeting adjourned for cocktails for some of the discussion that occurred with a loose conversational flow more liberally then either the bartender's stock or the hors d'oeuvres, as discussions started or inspired by the after­noon's events continued in small, informal groups which constantly shifted members and topics (as such conversations and groups are apt to do) without particular finality.

Following dinner, all assembled for two movies, one starring Dr. Leighton, which dealt with the Marine-Moon probes, and the other featuring computer-generated art. The latter left the audience blinking for some time afterwards.

Perhaps some of the most memorable events of the meeting occurred in some of the informal discussions. Robert MacNamara elucidated the problems of the Vietnamese issue. Simon Rano told how he bene­fitted in the practical world from his highly theoretical physics/ electrical engineering background at Tech. Thomas Watson admitted that his company made a fortune on computer operating systems, but "You (at Caltech) probably know more about them than I do."

Practical results have already started to come of the meeting. Several trustees accepted student invitations to visit the campus for extended periods, perhaps even staying overnight in one of the graduate dormitories. Ruben Merletz arranged for students to visit TRW to see how the scientist in industry lives and works sometime in the very near future. And perhaps more will come.

Hall Appreciates
Tech Education

by Alan Lederman

Prior to the drop of the green flag at the Riverside 500, I went to the pits to interview Jim Hall. In the interests of expediency, I asked only questions with no overlap in the general press. The results, I think, will be of surprise to C.I.T. students.

Lederman: At Caltech there is much interest in your career. Our readers would much like to be informed on several questions not appropriate to public press coverage. How has your Caltech education helped you in your career?

Hall: My Caltech engineering background was strictly theoretical. The theory I picked up at Caltech could be applied anywhere. Anyone can learn the specifics. But someone who knows the theoretical can apply it to any situation.

Lederman: Then, how you have done?

Hall: Yes. I feel my Caltech background in engineering has let me enter the field of aerodynamic parts. This I feel was a feat in Formula 1 Racing. Lederman: What would be your advice for students who wish to be taken by a future (auto) engineer?

Hall: Stress the theoretical. Then adapt basic principles to each specific situation.

Lederman: Thank you, and good luck.
We have been chosen by the future for cars. On November 5, 1970, which the following write-up was submitted to the California Tech, it would seem. We're designing an earth-resources plan that, according to the Department of the Interior, is the latest in a series of Chaparral racing cars, started in 1963, and, as his other cars, represents the most modern advances in automotive racing technology.

Why isn't a big company like General Electric doing more to clean up the environment?

How much can one company do to clean up the environment? Until the problems of pollution are under control—until its effects are reversed—no company can ever be doing "enough." What follows is a listing of things General Electric is doing to ease environmental problems. Some are new. Some are as old as twenty-five years.

Should we be doing more? Yes, of course. Every company should. These are only a few of the more important ones. But every day sees us take more steps in many more directions.

General Electric is working toward a process that will use bacteria to convert garbage into a high-protein food for cattle. One possible answer to the mounting garbage problem.

Modern, pollution-free mass transit from General Electric is carrying more and more commuters into cities without their cars.

General Electric has pioneered the development of nuclear power plants. A nuclear plant makes electricity without making smoke. While there is still the problem of thermal effects, it's being tackled on a site-by-site basis and can be solved. But for now, increasing demands for power can be met without an increasing output of air pollution.

General Electric has developed a waste-treatment unit to significantly reduce the water pollution from ships and boats.

We've been chosen by the federal government to solve the problem of jet-engine noise for the aviation industry. Our present jet is already quieter than those on the commercial passenger planes of the Sixties, and yet it's nearly three times as powerful.

GE designed and built an undersea habitat called "Tekrite." Several teams of scientists have lived in the habitat while studying coral reef ecology and ocean pollution.

We're designing an earth-resources satellite which will be used for a worldwide survey of the oceans. A first step toward the ultimate control of water pollution.

Our newest jet airplane engine, for the DC-10, is designed to be smoke-free. Of course, there's more to jet exhaust than just smoke. And our goal is to one day make them run totally clean.

General Electric makes high-temperature vortex incinerators for the complete combustion of many types of solid waste. Complete combustion drastically reduces the amount of leftover ash, as well as virtually eliminating air pollutants. The problems of the environment are many. Some of the solutions will be difficult and costly. But, as you can see, we're working on them.

Why are we running this ad?

We're running this ad, and others like it, to tell you the things General Electric is doing about the problems of man and his environment today.

The problems concern us because they concern you. We're a business and you are potential customers and employees. But there's another, more important reason. These problems affect the future of this country and the planet. We have a stake in that future. As businessmen. And, simply, as people.

We invite your comments. Please write to General Electric, 570 Lexington Ave., New York, N.Y. 10022.
Being A Trustee
Takes Time, Money

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L. F. McColman
Chairman
Continental Oil Company
Dean A. McGee
Chairman
Kerr-McGee Corporation
Robert S. McNamara
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World Bank
Reuben F. Mettler
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Nobil Land and Cattle Company
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Union Bank and Unionamerica, Inc.
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RACE CAR DESIGNER
Finds Tech Education
A Help . . .

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responded, "but a good amount. A person does basically what he has the talent to do, but the proper guidance and stimulation can develop those talents. This I credit Caltech with doing, at least in part."

I also probed Hall's thought concerning racing and the internal combustion engine. When asked if outlawing the internal combustion engine would seriously hurt racing, he replied: "the Federal government is a long way from that, but if a replacement engine is perfected, I can't see any difficulties in racing it."

Served Its Purpose

Finally, I queried Hall as to the relevancy of his education to the real world. "I feel the education was good for me," he answered. "It was highly theoretical, and that is what I need in my work. Practical things you must learn for yourself; the theory is what is important much of the time. I really liked Tech; the academic freedom to attend classes as you wanted, the atmosphere it had. It served my purposes."

Just for the record, the Chaparral 2J qualified for the pole position of the race by 2 seconds over second place Denny Hulme in his McLaren. After one lap, however, the Chaparral dropped out and Hulme won the race. H.E.I. ????

DYNAMIC DUO TURNS TRIO-MVIRATE! Despite the valiant efforts of Players of the Week Paul Dresdendorfer, Bruce Johnson, and Gary Stormo, our Beaver squad went down to defeat under Pomona's last Saturday night. Come out this Saturday and watch our team get the ball in there against Azusa-Pacific at 1:30. -Photo by Eaton

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