The California Tech California Institute of Technology

Volume LVIII

Pasadena, California, Thursday, March 7, 1957

Prominent sociologist comes Dr. Oppenheimer expounds to Tech in Leaders program views on myriad

Next term, the highly successful Leaders of America program will add still another name to its roster of outstanding visitors Caltech to the campus. As

we went to press, Wes Hershey Director of the Tech YMCA chapter the sponsoring organ of the program-was pleased to announce that Mr. Jacquot Gris, well-known expert in sociology and public relations, will spend several days on campus time during third term.

Gris's recent public fame result of publicity concerning his pioneering research in his chosen specialty in the urban areas of his native Texas; a self-educated man of humble origins, Gris has achieved stat-ure of many years' standing among his contemporaries.

His fame and qualities of scholarship and personality keep him in great demand throughout the country as a visiting scholar. According to Hershey, the YMCA's success in securing Gris as a participant in the program is due in part to a stroke of good fortune; Gris had scheduled a vacation trip to the southland in order to spend some time away from the demands of his work.

conversations with Her In shey, Gris expressed interest in the undergraduate_student body as an object for informal study. He was "eager to see what effect that the 'monastic,5 non-coedu-cational life at Caltech has on the highly selected undergraduate population!"

Friday night demonstration talks praised

A weekly feature of Tech life that does not receive nearly as much publicity as it should is the Friday Evening Demonstra-tion lecture. These lectures cover every phase of the re-search work that goes on here at the Institute, and some sub-jects that have nothing at all to do with the school. They are presented by professors who are very well acquainted with their specific field. The lectures are given in easy-to-understand terms and are readily compre-hended by the public. Some of the more popular lectures, like Dr. Watson's "Liquid Air" and Dr. Feynman's "Relativity," are repeated many times over the years.

The program for next terms is as follows:

March 29, "The San Andreas Fault," Prof. C. B. Allen.

April 5, "Mass Spectrometers," Mr. C. McKinney.

April 12, <u>"Nuclear Power,"</u> Prof. M. Pelsset.

April 19, "Dry-fly Fishing," Prof. W. W. Michael, April 26, "Geophysics in the Mojave Desert," Prof. C. H. Dix. May 3, "Liquid Air," Prof. E.

C. Watson.

May 10, "The Automotive Power Plant," Prof. P. Kyropoulos.

May 17, "Brain Mechanisms," Prof. R. Sperry.

May 24, "Geologic Exploration of Alaska," Prof. J. Noble.



Dr. J. Robert Oppenheimer, noted theoretical physicist, is visiting Caltech as part of this year's Leaders of America program.

Hey, fellas and gals, here's your chance to win a white elephant

Because of the significant events which have taken place on our campus during the past week, we feel compelled to devote some portion of this issue to strictly serious copy. In years past it has been traditional to end the term with a comical issue of the California Tech. However we have decided to make this a Puzzle Issue.

You guessed it, kiddles. A prize is offered to any person who is able to distinguish the farcical from the serious ma-terial in this issue. In order to make the game more fun for the editors we decided not to read the stories until the paper comes out on Thursday. (Frank couldn't read them anyway becaus isn't_down here tonight.) he Get it, Frank?

Please address all entry blanks to Bob Walsh, who has the sincere sympathy of all those who

YMCA to elect student leaders

Caltech's YMCA will elect of-ficers for the coming year tomorrow night at a meeting in 205 Dabney_ The Y is one of the the most active campus organizations, and interest is expected to be high. "The Y's Beaver," the organ-

ization's weekly publication, an-nounced that all members of the Y are eligible and are encour-aged to participate in the

election Candidates already nominated include"

President: Jim Weaver Vice President: John Lango.

Secretary: Al Berg, Al Carlin. Treasurer: Tom Jovin.

Publicity Manager: Nelson Byrne, Tom Morton.

Regional Representative: Kent Frewing, Mike Talcott.



Dr. McCloskey appointed to director's post

The appointment of Dr. Chester M. McCloskey as Executive Director of the Industrial Associates of the California Institute Technology was announced recently

Dr. McCloskey, who has been Chief Chemist of the Office of Naval Research in Pasadena since 1955, will assume his duties at Caltech March 1. He succeeds Mr. Robert V. Bartz, who recently accepted a position in Washington with the Insti-tute for Defense Analysis, of which Caltech is a sponsoring institution.

Dr. McCloskey comes to his Dr. MCCloskey comes to him new position with broad experi-ence in both industry and science. While with the Office Naval Research, he worked closely with administrative and research people in aircraft, oil, chemical and engineering firms.* A chemist by training, he has done extensive research in carbohydrates, vinyl polymerization and propellants. He served as Chief Chemist of Alexander 1947

Physicist describes effect of science on values, calls Tech schedule "tight"

"The job of physics is to describe the coherence of our knowledge." So said Dr. J. Robert Oppenheimer, currently spending five days on the Caltech campus under the auspices of the YMCA Leaders of America program, in an interview with the California Tech. Dr. Oppenheimer continued, "In addition, physics has given me a new Alamos and serving as chair-

physics has given me a new notion about the relative cer-titude of knowledge, increasing my doubt of new knowledge without verification. I have learned to appreciate the fact that anything possible is not actual."

Asked how, if at all, the study of physics had affected his values, Dr. Oppenheimer re-plied, "Values are affirmed by living them. The values of physics are knowledge, clarity and order, and pursuit of them

made them high in my book." That Dr. Oppenheimer is qualified to speak of the values of physics is rather obvious at this date. He early gained international fame in scientific circles for his contribution to the theory of sub-atomic particles. Later, during World War II and the years immediately iollowing, this fame was enhanced by his participation in the government's atomic energy program, including directing the develop-ment of the atomic bomb at Los

Alamos and serving as chair-man of the General Advisory Committee to the Atomic Energy Commission.

of topics

Number 19

Since Dr. Oppenheimer is familiar with many of the great American universities, it was only natural that he should be asked for his impressions of Caltech. "There are two things that strike me immediately," Dr. Oppenheimer replied when that question had been put to him. "One is the tightness of schedule, a tightness that makes it seem as though the students are racing with each other inside these restrictions. Possibly be-cause of this restriction and competition, there is an unmis-takable sense of comradeship and friendship among the un-dergraduates. There appears to be little of the lack of orientation that exists in universities with a wider range of courses."

Dr. Oppenheimer told the Tech that the Institute for Advanced Study attempts to pro-vide a setting for theoretical rehearch in science and the humanities that will be completely free of distractions. For instance, the Institute is admin-istratively divorced from the rest of Princeton. Oppenheimer also commented that, because of the lack of all research, the Institute was unique among sim-ilar institutions. Currently, in addition to his duties as Director of the Institute, Dr. Oppen-heimer is pursuing the study of physics and philosophy.



Ed Park points out buy of the year to Tom Dodge as Kofsky has convulsions.

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News Staff

Feature Staff

THE CALIFORNIA TECH

when referring to a girl you know

4) Avoid all forms of exercise. Ditch PE if you can get away with it; after all, you're a scientist-or an engineer-and of your body isn't imcare portant.

Don't go to athletic events unless pressured into it or, in unusual cases, if Tech teams are sure to win. When you do go, be sure to dress and act as above indicated. Shout, don't speak. Make E to the x your favorite

Never give a referee an .even break. You know the rules of vell

"THE BARRETTS OF

WIMPOLE STREET"

COLORADO

Machiko Kyo

'The Techouse of the

August Moon'

UPTOWN

'FRIENDLY PERSUASION"

and

Glenn Ford

Marlon Brando

the game as well as they do, and from your vantage point in the stands you can see better than they can. Call 'em every dirty name you know. Make distracting noises whenever opponents get a free throw.

5) Don't date more than once or twice a term and only when your friends pressure you. When you're at exchanges, don't dance any more than you have to;

ATTENTION

GRADUATES

on

Tues. April 2

A General Tour of the

spend as much time as you think you can in the stag line scrutinizing the crowd. If you must dance, at least you can go backand cut in on the same girl several times.

Thursday, March 7, 1957

We feel that careful observnces of the above five simple rules will maintain our level of civilization at Caltech.

Cramming

for Exams?

Feature Editor — Mike Milder ______Alan Carin Brad Efgan, Howard Weisberg, Ford Holtzman, Dave Gildon and Gary Yale Breitbad Sports Editor — Dick Van Kirk Tomy Leonard, Steve Emanuel, Dave Singmaster, ports Staff Dick Fiddler, Ed Krehbiel ...Dave Groce, Randall Schmus Photography Business Manager — Ed Park⁺ Circulation Manager — Eldridge Moores nd-class matter November 22, 1947, at the Post Office in Erteret as secon Pasadena, California, under the Act of March 3, 1879

California Tech

Editors-in-chief — Tom Dodge and Frank Kofsky Managing Editor — Bob Walsh

News Editor - Jim Wilkinson

Tech Editors urge Techmen to uphold cherished traditions **STATE** SY. 2-7139 RY. 1-0385

Certainly nave heard vou enough in the last few months especially during the recent political campaigns-about that indefinable desirable quality, school spirit.

What is school spirit? In an attempt to discover what makes Tech unique among colleges the editors of the California Tech have decided upon the following code of behavior as that fitting a student who wants to preserve Caltech just as it is today.

1 Never volunteer. This is as basic in school as it is in the army. There are plenty of other guys to get the work done. Always have a couple of tests on hand to study for when there're jobs to be done so that you can's get stuck with any.

Steer clear, particularly, of student body government. That's especially hard work and should be avoided at all costs. Sure, you may have ideas about improving things, but don't bother bring them up. If they're to good ideas, someone else is bound to think of them.

2) Watch your appearance, so that at all times you dress as the representative Techman dresses—dirty blue jeans, torn shirt, loafers. Don't dress up for classes—nobody's going to see you except classmastes and

instructors, and who cares what they think about the way you dress? You have to wear coat and the to dinner. but always look for loopholes in this rule, such as polo shirts or tee shirts, bare feet, etc.

m WilkinsonDave Leeson, Bob Lushene, Alan Berg, Lance Wallace, Jerry Hanson, Alan Carlin

Don't ever shave except when you have a date.

Always wear a slide rule on your belt or at least carry one around with you.

3) Watch your manners similarly. The most important thing about dinner is getting it over with in a hurry, and your table manners should be guided by this principle. Reach, don't ask, for the sugar or bread or jam.

Never let another guy get the best of you in a conversation. This means interrupting him whenever he's trying particu-larly hard to make a point.

Above all, never use clean language. A Techman who speaks a complete sentence without a single profanity is out-of-it. Don't say Ace Spades; say f - - g Ace of of Spades. Never use a polite word

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adjustable cuff and collar tabs for changeable spring weather. "Sanforized-labelled" cotton fabric. \$12.95.

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University of California **Radiation Laboratory** PLACEMENT INTERVIEWS

March 28

Electronic Engineers Mechanical Engineers Metallurgists • Physicists **Chemists and Chemical Engineers** Mathematicians

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The Sports Corner

It is with a sad heart and forlorn look that I write this column today, for this marks the last of the Sports Corners to be delivered by yours truly. With the annual second term change of personnel by yours truly. With the annual second term change of personnel and an increasingly heavy schedule of activities to contend with. I have decided to step down from my position as sports editor of **The California Tech** and allow someone else to gain a little of this valuable experience. Before I retire from active competition, however. I would like to give a little acknowledgment to the people who helped make the sports section what it was the past year and a half.

I'd like to thank the chiefs, Tom Dodge and Frank Kofsky, for their help in always seeing that I had as many pages as I needed for complete sports coverage; Kay Sugahara, for his wonderfully witty choices of choice alliterations for headline use; Brent Banta, Tony Leonard, Howie Bloomberg, Don Wiberg, Bill Kern, Dave Singmaster, and Lance Wallace, for their contributions of news copy throughout the year. Mr. Hal Musselman and all the personnel of the athletic department for all their cooperation in the past fourterms; and Dave Groce, who supplied the photographs for the sports section.

I can't ignore the folks who made the news, either, for without I can't ignore the folks who made the news, either, for without them there could be no sports section. So, a great big measure of thanks to people such as Phil Conley, who came out of the wild jungles of Pasadena earrying an eight foot spear and became a national celebrity; Vic Johnson, who bids fair to follow in Phil's footsteps as a javelin thrower of national repute; Ray Weymann, Chuck Norman, and Ed Nelson, who carlied the baseball team to its first league crown in over thirty years, Don Lewis and Ted Lang, the forgotten two-thirds of Caltech's school record-breaking trio in track last season; Ed Krehbiel, Larry Whitlow, Don Stöcking, and Joe Lingerfelt, who helped show that pushing a slide rule doesn't hurt your ability to push people around on the gridiron; doesn't hurt your ability to push people around on the gridiron; Fred Newman, who taped on a pair of horn-rimmed spectacles Fred Newman, who taped on a pair of horn-rimmed spectacles and tore the league apart in the last half of the basketball season with his red-hot gunning; Ed Shuster, number one linkster on Cal-tech's strong golf squad; Clarke Rees, who could be a swim star at any school in the country; Glenn Converse, the Glen Rock, New Jersey, hook shot artist, who will be one of the outstanding basket-ball players in the SCC next season if he plays all season the way he did the last half of the 1957 season; Frank Cormia, Bernie Mueller, Tom Hays, Bob Tokheim, Dave Yount, and Read Warriner, one of the best-balanced tennis teams ever to represent Caltech; Larry Trn and Steve Mak a counle of little men who mak the Larry Tnn and Steve Mak, a couple of little men who mak the Baver soccer team "go"; Jim Welsh, the hardest-working basketball captain seen around these parts in a long time; Bob Emmerling,

by Chester Field

... said he

IT'S FOR REAL!

DREAM GIRL

"My ideal gal has got to be From four foot six to six foot three! And I insist, my ideal queen Be plump or slim or in-between. Redhead, brunette, or blonde" . . . "I won't complain if she's a she."

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tasting smoke today!

O Lizzett & Myers To

who switched his allegiance from Occidental to Caltech and "promises to be the best distance runever enrolled here; and to Dick Herleinffi, who would be the best pole vaulter in the the best pole vaulter in the world if persistence weer the sole criterion.

Last of all, here's a vote of thanks to you, dear reader, for butting up with my gripes and tripe for a full year. I hope you do as much for your next sports



be on the sports page. No one has a sporting chance, anyway, But get in there and fight till the final buzzer sounds. Let's all flunk out together.

Thursday, March 7, 1957

Round frosh sports up

So here's our complaint. How come that they don't include Bridge as an athletic—you know like baseball and that jazz! All the time you read the sports section in this paper and read the same names-Ed Krehbiel. Ed Park, Ed Nelson, Ed Preis ler Ed Kleppinger, and Jayne Mansfield. You get tired of it, you know what I mean.

But in Bridge you can intro-duce a new element in sports. New names like Mashugehara, Bitehard, Tommy Kazoo, and Steve Holtzman. There're new terms that the Birdge enthusiast will have to learn like finesse and then there's always the guv over your shoulder telling you to lead diamonds, no the ace, get to the board, et ceterah

A frank message to

on campus or off, it's A-1 Twill **Taper** Ivys Styled right ! Rugged, long-wearing, high lustre twill for greater mileage. \$4.95 at your favorite store. MANUFACTURING CO. makers of the genuine angeles PEGGEB.

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You will be promised many things (including the moon with a fence/around it), and for a young man just getting started these things are pretty hard to resist.

to resist. So, again, let's be frank. We at Farnsworth won't promise you'the moon. (Although we are working and back.) We are an old, young organization. Old, in the sense of being pioneers in the field of elec-tronics. (Our technical director, Dr. Philo Farnsworth invented electronic television.) Young, by being the newest division of the world-wide International Tele-phone and Telegraph Corporation, devoting our ef-forts exclusively to research, development and pro-duction of military and industrial electronics, and atomic energy.

All of which makes Farnsworth big enough for stability and technical perspective, yet small enough bility and technical perspective, yet small enough for mobility, flexibility and recognition of the in-idividual. Here, you will be associated with and encouraged by a team of eminent scientists and engineers with many "firsts" to their credit in the field of electronics. Here you will be heard . . just one of the herd.

We earnestly invite you to hear the whole fascinating Farnsworth story. We're pretty certain it will make the decision for your future easier.

ON CAMPUS INTERVIEWS:

MARCH 29



estertiela

ARETTES

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Morley Barnard

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Second, ourselves. Every Union Oil dealer owns or leases his own station. This gives you the incentive to make every customer a satisfied one. You know, I think he liked my answer almost as much as the service. Just the other day he stopped in for a credit card. "Go ahead," he said with a smile as we started our Minute Man routine. "Spoil me!"



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