

Oppenheimer here for five days

Automatic doors!

"Cotillion," ASCIT Formal, at Beverly Hilton Friday

by Dave Leeson, ASCIT First Rep.

The automatic doors of the luxurious Beverly Hilton Hotel will swing open tomorrow evening for the ASCIT Winter Formal.

The "Cotillion," highlight of this quarter's ASCIT social program, is scheduled to begin at 9:00 and end at 12:30 tomorrow evening. The popular orchestra of Keith Williams will be featured Friday. Dress will be formal, which calls for dark tuxedos for men and long or cocktail formals for dates. Drinks may be purchased upon presentation of identification to the Hilton waiters, and refreshments of a milder nature will be provided during the evening by courtesy of the ASCIT.

The best route from Pasadena to the Hilton is Pasadena Freeway to Hollywood Freeway, Hollywood Freeway to Sunset Blvd., Sunset Blvd. to Whittier Dr. in Beverly Hills, and left on Whittier Dr., which terminates in the Hilton concourse and parking area. Parking fee is \$0.50 for the evening.

Automatic doors

The main entrance to the Hilton lobby is directly off the concourse. The Grand Ballroom is located at the far left end of the lobby, entering from the concourse. Be sure to impress your date with the automatic doors entering the lobby!

NOTICE: The response to the formal has been overwhelming. The last of the 200 formal invitations provided by the ASCIT was spoken for last weekend. To accommodate the expected attendance the ASCIT has arranged for the "Cotillion," originally set for the Cadore Suite, to be held in Grand Ballroom of the Beverly Hilton, and 100 additional invitations will be available this afternoon and at the dance.

Unusual visiting female shakes troops; reading of "New Yorker" is discouraged

It was a typical day. The Ricketts fire hose was pouring ton after ton of water into the Blacker courtyard, while one man after another was escorted triumphantly to his opponents' shower. Water balloons filled the air as the industrious Caltech undergraduates sought a moment of pleasant relaxation in friendly competition.

Enter, simultaneously with "You'd better cut that out, G—d— it!", a pert, friendly woman with some large envelopes and a notebook under one arm. An upperclassman quickly evaluating the situation with his 180 IQ, strode over to lead the poor, lost soul away from the black pit of confusion and vice.

Before he had gone half way across the courtyard, the visitor noticed that she had his attention. Springing at him with perfect grace, she began to speak, and the words flowed as swiftly, as forcefully, and as unceasingly as the great cascade of Yellowstone.

"Is this Richards House?"
"No, I'm sorry. This is Ricketts House."

"Oh, good! That's what I'm looking for, Richards House. Where is your library? You do have a library here? Oh, you must have just a little place."

"I'm looking for Dave Allen. He's the librarian of Richards House. You see, we're conducting a Readership Study, and he has a subscription to *New Yorker*; we're doing the *New Yorker* this week. And I would like to..."

Putting his 180 IQ back into high gear, the brilliant Techman started toward Dave Allen's room, hesitated, considered for a moment, and produced the following line of scintillating logic:

Ricketts has recently known two Dave-Allen's. One was a librarian, and one was not. But she said he was the librarian. Therefore she must want to see the one who was librarian. But he left last year. Therefore I will test my hypothesis by in-

Efron wins

Brad Efron was elected ASCIT second representative in a runoff election held yesterday. He defeated Lee Hood in the runoff after Jerry Siegel had been eliminated in the regular election.

Efron will be installed Monday, and the entire new Board of Directors will take office at that time. This procedure will permit Dave Leeson, present first representative, to remain in office during the Winter Formal.

Gallagher, AUFS man, lectures on North African backgrounds

by Al Carlin

"The Scholar's North Africa"—this might be the title of Charles F. Gallagher's current visit to Caltech.

Gallagher, the visiting American Universities Field Staff representative, "deplores the current events approach" to the study of other nations, especially in regions with such long cultural and religious backgrounds. Rather, he believes, areas such as North Africa must be understood as a part of the European and Middle Eastern group of nations, sharing their neighbors' history—but with their own peculiar background of customs, and religion. The current unrest is an outcome of the cultural renaissance which started with European intervention after the demise of the Ottoman Empire.

History of Morocco

Gallagher's approach is not too difficult to understand when one considers his background. Just prior to joining AUFS last July, he had been engaged in a two-year project of writing a

history of Morocco from the Seventh Century to 1912. And he plans to write his Ph.D. thesis soon—on the migration of the Moriscos from Spain to certain North African cities in the 17th Century due to religious persecution.

His recent past has been marked by a sudden switch of interest at the end of his undergraduate training from the Far East to the Western Islamic field. This switch he doesn't believe to be too unusual because his association with the Far East was a product of circumstance first, through his attendance at the Japanese Language School at Boulder, Colorado, during World War II, and later as Fine Arts Advisor on Japanese cultural property during the occupation.

Western Islam

However, after graduating *summa cum laude* from Harvard in 1951, he moved to the University of Paris to take up the study of Western Islam. During his graduate study, he lived and

(Continued on page 6)

Leading atomic scientist will meet with students informally

Dr. Robert Oppenheimer, leading atomic scientist and director of this country's atomic program until 1953, today arrives on the Caltech campus to spend five days meeting informally with members of the undergraduate student body.

(Editor's note: More complete information about Dr. Oppenheimer's long and varied career appears on Pages 2 and 3.)

Although Dr. Oppenheimer had already risen to a position of importance in the world of science by his contribution to the development of the atomic bomb

and his chairmanship of the General Advisory Committee to the Atomic Energy Commission, in 1953 he had an altogether different type of fame thrust upon him. In that year, by a two-to-one vote of a special subcommittee of the AEC, Oppenheimer was relieved of his position in the government's atomic energy program for security reasons.

Sponsored by Y

Dr. Oppenheimer's visit is being sponsored by the Caltech YMCA under their Leaders of America program. Unlike previous Leaders, Dr. Oppenheimer will minimize communication by formal address, instead concentrating on reaching the students through informal discussions. There will be several opportunities for each student to meet and talk with him personally. He will eat several meals in the student houses, and his afternoons will be spent at the Tolman residence, 345 South Michigan Avenue, where students are invited to go and speak with him during such times.

Sensitive individual

According to Caltech faculty members who have known him, Dr. Oppenheimer is a sensitive individual who has led a very interesting life, and associating

(Continued on page 7)

Schedule for Oppenheimer	
THURSDAY	
11:00-2:00	Lunch at Fleming
3:00-5:00	Discussion with about 20 grad students
6:00-8:00	Dinner at Blacker
8:00	Meets with the Y cabinet
FRIDAY	
11:00-2:00	Lunch at Dabney
3:00-4:00	Office hours
4:00-5:00	California Tech interview
SATURDAY	
6:00-7:00	Dinner with Oppenheimer Committee
8:00	Open house
MONDAY	
11:00-2:00	Lunch with Throop
3:00-5:00	Office hours
7:00-8:00	Talk before undergraduate student body
8:00	Meets with BOD and IHC
TUESDAY	
11:00-2:00	Lunch with Ricketts
2:00-5:00	Office hours

House officers for next year nominated

Nominations for house officers have been held in all houses except Fleming, which will hold them today. Elections will be held today in Throop and Monday in Ricketts and Dabney. President, secretary and treasurer of Blacker were elected last night, and the rest of the officers will be elected next week.

At press time candidates for president of Blacker were Mauritz Kallerud, Reed Saunders, and Don Stern. Other candidates include Bob Johnstone, for vice president;

Diek Goodman, Tom Jovin and Bob Thompson for secretary; Gus Akselrod for treasurer; Bruce Campbell-John Kelley, Jerry Hansen-Dave Teal and Tim Harrington-Bill Kern for co-athletic managers; Eric Adelberger, Hap Gier, Max Oeschger, Jerry Parker, Bob Pisani and Randy Schmus for librarian.

Dabney has nominated for three offices, and the rest will be nominated at election time. Nominated for president were Alan Forsythe, John Kleiderer, Keith Martin, and Andy Perga. Bob Lange and Sol de Piccolto are running as a team for social vice president, and Dave Lange and Tony Howell are running for executive vice president.

Throop Club candidates are Mike Moore and Dick Cooper for president; Jim Wilkinson and Fletcher Gross for vice president; Al Porush and Tracy Atherton for secretary; Bob Harmon

(Continued on page 6)

Y News

The visit of Dr. Oppenheimer will highlight this week's Y events. As usual, the luncheon forums will meet.

Charles Gallagher, AUFS man specializing in Northwest Africa, will speak this noon to the Grad Sack Lunch Club in the Y lounge. Also this noon, the Frosh Lunch Club, meeting at the training table under Blacker, will meet jointly with the Tuesday Club to elect officers for third term.

Plans are brewing for the Spring Seeley Conference which will take place on May 3, 4, and 5. As the topic is still undetermined, suggestions are desired and should be left at the Y office. The annual Seeley Conferences gather college students in the southern California area.

Frosh meet called

Dean Foster Strong announced Tuesday that there will be a meeting of the freshman class next Tuesday at 11 a.m. in 155 Arms. The purpose of this meeting is to discuss options.

DOUBLED AND REDOUBLED

by Kay Sugahara

This is one of the hands from this year's Intercollegiate Bridge Tournament. Practically all the hands illustrated only one important principle and all one had to do was find it. Deal 8:

North

S-7 5
H-A Q 4 2
D-J 9 6
C-A K 9 4

West
S-A Q J 9 8 4
H-K 10 6
D-A 2
C-10 5

East
S-K 10 2
H-9 5 3
D-K Q 10 8 7
C-J 3

South
S-6 3
H-J 8 7
D-5 4 3
C-A K 9 4

Dealer—West
Vulnerable—Neither side

Recommended Bidding—

West	North	East	South
1 spade	2 clubs	2 diamonds	Pass
2 spades	Pass	3 diamonds	Pass
4 diamonds	Pass	4 spades	All Pass

With West as the declarer, North leads the king of clubs. After he sees the dummy, South must not automatically play the deuce. He should know his partner has the ace and three or four more clubs. From the bidding it is obvious that West has the ace of diamonds and at least one other. With three diamonds in his hand, South real-

izes that the suit will set up and declarer can get at least two sloughs from the closed hand. The defenders' only possibility to get the two setting tricks is to attack the heart before the declarer can slough them. West has shown that he has four or five cards in the minors and consequently eight or nine in the majors. He at-

most certainly doesn't have seven spades (implied in the bidding) and therefore has at least two hearts. If he has to be finessed, South must get into the lead. South's only possible entry is in the club suit. He must therefore signal high with the eight on the first club lead.

North too must do a little hard thinking. Why should his partner play an encouraging card? It is obvious that he is not signalling a high-low since that would give West five clubs and he would have bid the suit. South must have the queen! North has to underlead his ace of clubs to give South a much-needed entry. South takes the low club lead with the queen and leads a heart back, finessing declarer's king. Thus the defenders take two club and two heart tricks setting the contract.

North can hardly lose by this method of play. Obviously the only tricks they are going to take are in hearts and clubs. West must have the ace of diamonds as indicated by the bidding. If West has a singleton club, the contract is "icy." If West has the doubleton queen he will make an overtrick but in that case, then for what reason did South play the eight? It is very unlikely that South has a natural trump trick but if he does he will get it in time to lead a heart for the set.

California Tech

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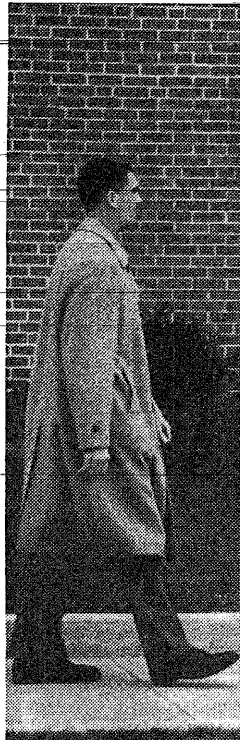
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Tuesday, March 5, 1957

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A frank message to graduating electrical and mechanical ENGINEERS

You know it... we know it... so let's be frank about it.

The demand for engineers—experienced or graduate—far exceeds the supply. And, from now on in, you are going to be sought after more than a triple threat halfback for next year's varsity.

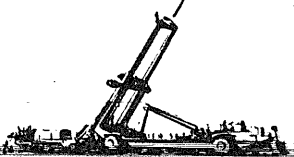
You will be promised many things (including the moon with a fence around it), and for a young man just getting started these things are pretty hard to resist.

So, again, let's be frank. We at Farnsworth won't promise you the moon. (Although we are working on some ideas that may eventually get you there and back.) We are an old, young organization. Old, in the sense of being pioneers in the field of electronics. (Our technical director, Dr. Philo Farnsworth invented electronic television.) Young, by being the newest division of the world-wide International Telephone and Telegraph Corporation, devoting our efforts exclusively to research, development and production of military and industrial electronics, and atomic energy.

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ON CAMPUS INTERVIEWS: MARCH 29



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FARNSWORTH ELECTRONICS CO., FORT WAYNE, INDIANA

Campus Brewins

Alliteration awfully arduous

It was Friday lunch time in the Locker Room. An asocial chairman arose.

"There will be a Regularly Scheduled Social Event tonight, in Beautiful Fleming lounge," he said. And so it came to pass that there was a party in allek sex. There did Jaswine shock his date with language most foul. There did a silence fall, when Bawdy Songs were played. There did D. Mice say, "But there's no rule against it—it's not twelve-thirty yet." There did Patswine lure his blushing date to his woom, only to find all the Facilities occupied. And at half past the witching hour, the

rains came, at least.

Troll Twin told truth

It was there where Kraybull greeted M. Grosswind.

"Hi, Nickle," he innocently said.

The Kosherman peered at his accoster.

"Oh, it's you, Ed. Didn't recognize you without your Van Kirk."

Trusting Trooper tells tale

And among the Trolls, puzzlement arose about the Case of Galloway. Claiming to be Practically Married, he has ignored his Practically Wife for lo, these many weeks.

"I trust her," he says, with that bliss which is identically

equal to ignorance.

Garment gone, gets goodies

At the Bio field trip, Wee Gordie lost his jacket. With true Section A skill, he parlayed this crushing blow into a free dinner and applied bio lesson by Boy Biologist J. Clark and Lovely Woman.

"Hope one of those girls down there doesn't find my jacket," said the youth. "Had both pockets full of Eureka worms."

Voet's velocipede victorious

In the case of V—, D: It is the opinion of this committee that the aforesaid, V—, D, has illegally engaged in left handed activities. Such behavior is a violation of Executive Order No. 232323 (3). (Get it, Frank?) It is the recommendation of this committee that the aforesaid be denied further ac-

cess to broomsticks (and similarly shaped objects). It is further recommended that the aforesaid use a tricycle the next time.

Pipe-pulling Pres picks punk

(Enter Dick Quirk and Unknown Troll)

Unknown Troll: Why not try D. Clark Grabs?

Dick Quick: Braaaaacchhhh!!

Unknown Troll: But man, he smokes a pipe.

Dick Quick: Aha. Why didn't you tell me he was qualified?

Get him, son, get him!! (Exeunt)

Runty rep racked royally

Iorillo stood in No Man's Land, where the BS comes from both sides. His eager face was on the door to the California Tech office, but his mind was behind him. Suddenly the door opened,

and out stepped Dave, The Man, Greeson, prophet of gloom and doom. He nods his head at each waiting face. Iorillo stands, breathless. At last that mighty head is nodded in his direction. Oh alack the day! Oh hope forlorn! The magnificent cranium signals that dreaded word, "No." Iorillo stands not, but rather slinks away to oblivion.

With woeful countenance,

Dave, The Man, looks again upon those fearsome numbers. But lo! Can it be? Hath the mighty mind neglected a hundred votes here and there? Go. Bring joy to Iorillo. But stop for one short moment to shed one small tear. The idol stands—shattered—with woeful countenance. The Great Engineer has fallen.

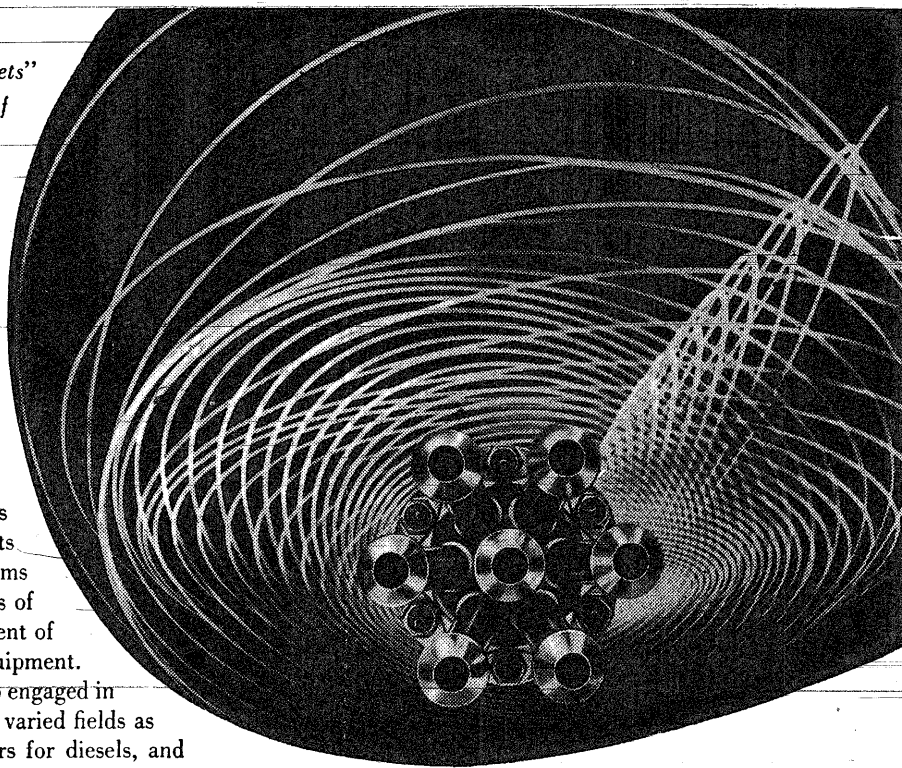
AiResearch jet pump "shoots air bullets" to increase efficiency of refrigeration units

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INTERVIEWS on CAMPUS... THURSDAY, MARCH 7

B.S.—M.S.—Ph.D. CANDIDATES

Life and Times of

Of human sorrow

"You have no idea how repugnant this is—to go over my life. It is impossible to be completely candid. It's an art and it takes technique, and you have to learn it. If you've lived a life that isn't free and open with people, it's almost impossible to unspool it, to unravel the ball of twine." So said physicist J. Robert Oppenheimer to an interviewer in 1948.

Since then Dr. Oppenheimer has had many repugnant moments. In 1954 the Government released a 993-page document, **In the Matter of J. Robert Oppenheimer: Transcript of Hearing Before Personnel Security Board**—testimony taken on personal and public events of his life. This testimony was taken during hearings held for the purpose of determining his fitness to receive classified information under security regulations of the United States Government.

Oppenheimer's Answer

Upon learning that his security clearance had been voided, Dr. Oppenheimer wrote a 43-page letter answering the allegations "in the context of my life and my work."

He was born in New York in 1904 of German-American extraction. He attended the Ethical Culture School and Harvard which he entered in 1922. From there he went to Cambridge

University and Göttingen where he took his Doctors degree. In the following two years he pursued his studies at Caltech and other universities in the United States and Europe. "I had learned a great deal in my student days about the new physics; I wanted to pursue this myself, to explain it, and to foster its cultivation."

At Caltech and Berkeley

He accepted concurrent appointments as assistant professor at Caltech and Berkeley. "My friends, both in Pasadena and in Berkeley, were mostly faculty people, scientist, classicists, and artists. I studied and read Sanscrit with Arthur Rider, I read very widely, but mostly classics, novels, plays, and poetry; and I read something of other parts of science. I was not interested in and did not read about economics or politics. I was almost wholly divorced from the contemporary scene in this country.

I never read a newspaper

"I never read a newspaper or a current magazine like *Time* or *Harper's*; I had no radio, no telephone; I learned of the stock market crash in the fall of 1929 only long after the event; the first time I ever voted was in the Presidential election of 1936.

"To many of my friends, my indifference to contemporary affairs seemed bizarre, and they often chided me with being too much of a highbrow. I was

interested in man and his experiences; I was deeply interested in my science; but I had no understanding of the relations of man to his society.

Something new

"Beginning in late 1936, my interests began to change. These changes did not alter my earlier friendships, my relations to my physics; but they added something new. I can discern in retrospect more than one reason for these changes.

"I had had a continuing, smoldering fury about the treatment of Jews in Germany. I had relatives there and was later to help in extricating them and bringing them to this country.

The larger sorrows

"I saw what the depression was doing to my students. Often they could get no jobs or jobs which were wholly inadequate, and through them, I began to sense the larger sorrows of the great depression. I began to understand how deeply political and economic events could affect men's lives. I began to feel the need to participate more fully in the life of the community.

"But I had no framework of political conviction or experience to give me perspective in these matters."

A land of terror

Compelled by the unsettling events of the time to enter into society, Dr. Oppenheimer, like so many sensitive and naive intellectuals, was attracted by the appealing doctrines of Communism. "This was the era of what the Communists then called the 'united front,' in which they

joined with many non-Communist groups in support of humanitarian objectives. Many of these objectives engaged my interest."

Every "front" on the coast

In the opinion of the Personnel Security Board, far too many of these objectives engaged Dr. Oppenheimer's interest. A statement was attributed to him in the charges of the AEC (though later found to be unsubstantiated) to the effect that he had belonged to every Communist front organization on the West Coast.

During these days before the war, many of Dr. Oppenheimer's acquaintances were Communists or fellow travelers. Several of the people closest to him had been party members; including his wife, his brother, Frank, and Frank's wife; and an intimate whom he was nearly engaged acquaintance, Jean Tatlock, to several times before he met Mrs. Oppenheimer.

Supported loyalists

Through Communist Party organs, Dr. Oppenheimer contributed between \$500 and \$1000 to aid the Loyalist cause in the Spanish Civil War. Dr. Oppenheimer was associated with a number of Communist front organizations before he went into government service.

This was the extent of his prewar Communist affiliations, as was known when he was asked to direct the Los Alamos Project. Thus in 1942, and again in 1947, when his security clearance was reviewed, all this pertinent information was considered carefully and was not thought sufficient to deny him clearance.

Dr. Oppenheimer's sympathy with the Communist Party be-

gan to wane when he read about the purge trials in the Soviet Union. From this time forward until the war, he slowly changed his opinion about the Communist Party. "In 1938 I met three physicists who had actually lived in Russia in the 1930's. . . . What they reported to seemed so solid, so unfanatical, so true, that it made a great impression; and it presented Russia, even when seen from their limited experience, as a land of purge and terror, of ludicrously bad management and of a long-suffering people." The Nazi-Soviet pact, and the behavior of the Soviet Union in Poland and Finland helped to reinforce his changed viewpoint, but it did not cause a sharp break between him and those who held different views. "At that time I did not fully understand—as in time I came to understand—how completely the Communist party in this country was under the control of Russia. . . . I found myself increasingly out of sympathy with the policy of disengagement and neutrality that the Communist press advocated."

Known sin

In 1942 Dr. Oppenheimer stepped from the relative obscurity of his academic life to become "the father of the atomic bomb." In that year General Leslie Groves asked him to become head of the project that was eventually undertaken at Los Alamos.

It was through Dr. Oppenheimer's efforts that a separate project for the development of the atomic bomb was set up at Los Alamos and that a brilliant technical staff was installed there.

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J. Robert Oppenheimer

the specific events of those years between 1942 and 1948. However, one can conclude from the testimony offered by men like Dr. Robert Bacher and Dr. Lee DuBridge that Robert Oppenheimer, more than any other single person, was responsible for the development of the atomic bomb.

man, and was re-elected chairman until the expiration of his term in 1952. This was his principal assignment during these years outside of his work as Director of the Institute for Advanced Study at Princeton, a position which he accepted in 1947.

cident. Soviet Russia exploded an atomic bomb in the autumn of 1949—far sooner than the United States had expected. The U. S. was jolted into a re-valuation of its atomic program. Advice was asked of the GAC. In Dr. Oppenheimer's letter to the GAC, he states: "The GAC stated its unanimous opposition to the initiation by the U. S. of a crash program (on the H-bomb) of the kind we had been asked to advise on . . . I think I am correct in asserting that the unanimous opposition we expressed to the crash program was based on the conviction, to which technical considerations as well as others contributed, that because of our overall situation at that time such a program might weaken rather than strengthen the position of the U. S. . . . I never urged anyone not to work on the hydrogen-bomb project . . ."

program was one of the most serious charges leveled at Dr. Oppenheimer. To some, Dr. Oppenheimer's antipathy towards the crash program was an indication of traitorous intent. Just before the Oppenheimer case became public, Senator McCarthy made a vague reference to a treasonous 18 month delay in the development of the Super bomb. Many, however, felt it was a serious blow against the right to state an honest opinion. A large number of scientists considered it to be the beginning of the end of individualism in this country.

penheimer to be a loyal citizen. In the majority report it was said that "Dr. Oppenheimer seems to have a high degree of discretion reflecting an unusual ability to keep to himself vital secrets. However, we do find suggestions of a tendency to be coerced or at least influenced in conduct over a period of years." However, at the same time, the Gray Board decided by a two to one vote that the criteria of the AEC security code did not permit them to allow Dr. Oppenheimer to hold a security clearance.

The brink of history

In July of 1945, Dr. Oppenheimer stood on the brink of history. Even his most vehement detractors admit the importance of the atomic bomb in preserving American military supremacy. "In some crude sense which no vulgarity, no humor, no overstatement can quite extinguish, the physicists have known sin, and this is a knowledge which they cannot lose."

Candid advice dangerous

The purpose of the GAC was to advise the Atomic Energy Commission on the formulation or policy and the management of the vast atomic enterprise. Dr. Oppenheimer was to learn that giving candid advice on such an explosive political issue as the administration of atomic energy could be dangerous.

Dr. Oppenheimer continued as a consultant to the AEC until December of 1953, when his security clearance was cancelled. The story broke several months later.

The Personnel Security Board, to which the case was later appealed, upheld the decision of the Gray Board by a four to one vote.

Since 1953, Dr. Oppenheimer has devoted his time to his position as Director of the Institute for Advanced Study at Princeton.

An honest opinion

The record of Dr. Oppenheimer and the GAC would have remained unquestioned if it had not been for one unsettling in-

Tendency to be coerced

The case was first appealed to a board headed by Gordon Gray, former Secretary of the Army. The Gray Board found Dr. Op-

Ford Holtzman
Vince Taylor

Guided by these aspirations, Dr. Oppenheimer moved into the politics of the atom. In the spring of 1945 he accepted a position on the Interim Committee on Atomic Energy. During this time he also consulted with the War and State Departments on atomic energy legislation. In the fall he resigned his position as Director of Los Alamos and resumed his teaching at Caltech.

"A magnificent opportunity"

The moral implications of atomic energy brought Dr. Oppenheimer, the man who had been almost unaware of society and politics in 1936, to the conclusion that it was the scientists' duty to guide its application. Writing in *Foundation for World Order* in 1947, Oppenheimer looked back to the hopes that he and his followers shared in 1945. "It seemed to us in this work that here a magnificent opportunity to exploit such scientific foundations for world order—as do appear to exist.

In other words, we could get people working together for an organization which was not responsive, in the first instance, to the national will of the sovereign states . . . We not only wanted to start down the path of genuine internationalism, of which the ultimate goal, I suppose, is world government; we wanted also to minimize things which we were sure would in and of themselves not work; the purely negative, repressive measures toward atomic energy which had been so much talked about, measures like inspections and prohibition and so on."

New responsibilities

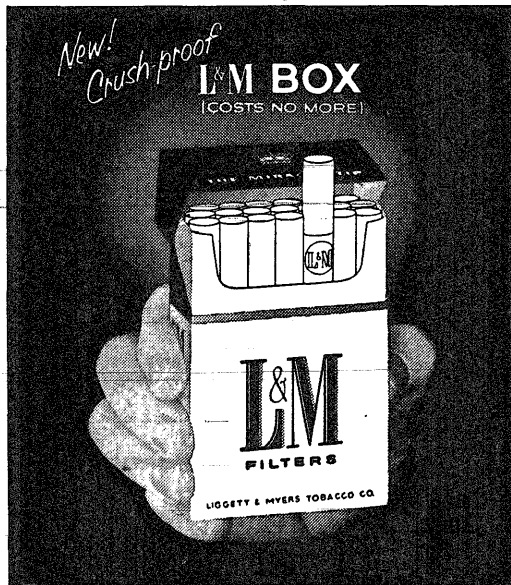
It was Dr. Oppenheimer's hope that his work at Caltech would be a full-time undertaking, but he was forced to interrupt his work here time and again to give advice to both the Executive and Congress on atomic energy. He was an adviser to Bernard Baruch and, in this capacity, helped to formulate the United States' plan for international control of atomic energy. At the end of 1946 he was appointed by the President as a member of the General Advisory Committee to the Atomic Energy Commission. At the first meeting, he was elected chair-

Traitorous Intent

Opposition to the H-bomb

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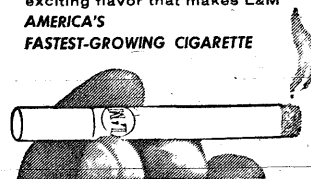


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INTERVIEWS:

MARCH 5

POMONA

MARCH 8

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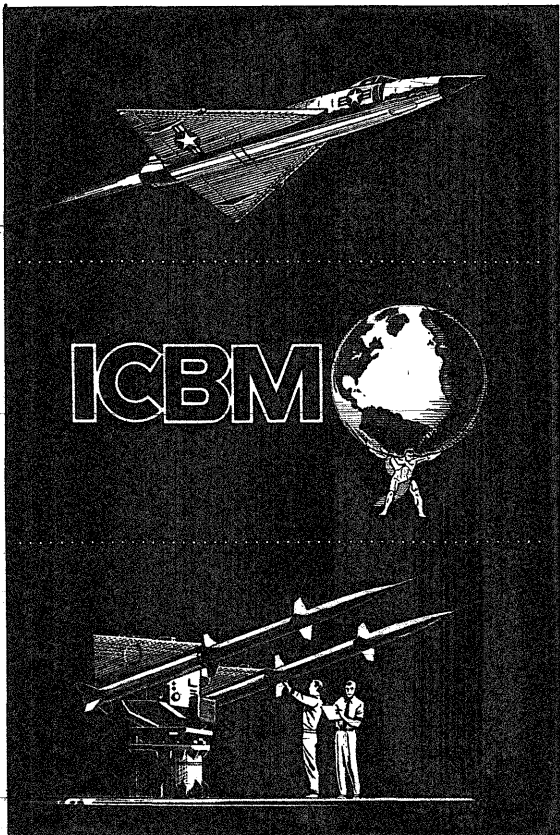
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POMONA, CALIFORNIA



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GALLAGHER

(Continued from page 1)

traveled in North Africa in 1953 and returned to Morocco in 1954 to write his forthcoming book, which he finished last summer. While working in Tangier, he came to know many of the then revolutionary leaders, now turned cabinet ministers.

Since July, under AUFS auspices, he has been traveling across North Africa, visiting Tunisia and Libya. He was quite heartened by what he found in Tunisia—a modern, westernized nation making good progress under its new freedom.

Libya, however, he found to be one of the poorest countries in the world with few resources and much internal dissension, just hanging on with the help of United Nations charity. Algeria, he believes, will soon be free, while Morocco is making good progress during its first year of independence.

Touring colleges

Then, last September, he left for the United States, where he has been touring AUFS colleges. Here, he has found a most distressing stereotype of the Arabs—as lazy, dirty canal-grabbers.

This, he believes, is the unfortunate product of the long popular romantic picture of the Arabs, turbaned shieks all, and the present grim disillusionment.

But this will be only one of the topics which Mr. Gallagher will be glad to tell you about during the coming week. You can learn many other interesting facts and points of view merely by talking to this well-educated, well-traveled visitor.

HOUSE ELECTIONS

(Continued from page 1)

for treasurer; Bob Calaway-Ed Schuster for co-social chairmen; and Jack Petersen for athletic chairman.

Candidates in Ricketts are Dave Leeson, Vince Taylor and Dick Van Kirk for president; Frank Albini for vice president; Dick Baron for social vice president; Brent Banta for secretary; Hugo Fischer and Gerhard Klose for treasurer; and the team of Phil Reynolds and Dave Singmaster for co-athletic managers.

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and

"Hot Summer's Night"

UNUSUAL FEMALE

(Continued from page 1)

peared into his room with her. Some time later she exploded into the lounge (Moore's still has not been seen), and noticed (Alas, alackaday!) that Zack Martin had begun to peruse *The New Yorker*.

"Ohhh! You're reading *The New Yorker*. How wonderful! Now you just read it for a while. Oh, that will be just fine. No, just keep reading it.

"Oh, I'm getting hungry. Is there a place nearby where I can get a small snack? (Random lounge rat points mutely to Greasy.) Oh, good! Now you just read that until I come back. (Vague gestures of objection.) Oh, how long are you going to be reading that?"

"About one and one-half minutes."

"Oh, are you just going to glance through it? It's all right if you just glance through it. I'll just sit here for a while. It's interesting to be in a Caltech house. Oh, you just go ahead and read, don't you listen to me."

Suddenly the torrent stopped. She smiled at the lounge rats, the lounge rats smiled at her, and Zack looked in the general direction of the magazine on his lap.

She jumped up, saying, "I

OPPENHEIMER

(Continued from page 1)

with him can be a rewarding experience for anyone who expends the effort. He was the head of the Los Alamos project which developed the atomic bomb during World War II. During the postwar period he helped to shape government policy on atomic legislation and the direction that the atomic energy program should take.

Interest in Communism

In his earlier years, Dr. Oppenheimer was almost completely disassociated from society; just love to look at oil paintings," and began to examine the masterpieces on the walls.

After ten seconds at each of two bulletin boards she noted that she felt "like the heroine of *A Tree Grows in Brooklyn*. She loved to read things—even laundry lists," and plopped on the sofa beside the cowering Martin. "I guess you've read enough. What sort of things did you read?"

"Well, just the cartoons."

Suddenly she seemed to lose interest, and before anyone was aware of her leaving, she was gone.

Explanations will be welcomed.

when he first began to take an interest in the community, dur-

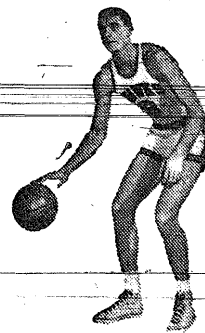
ing the depression, he was attracted by some of the doctrines of Communism. He fell out of sympathy with the Communists before the war, but his close association with them previously, along with his original opposition to the H-bomb, was considered sufficient by the Atomic Energy Commission to deny him access to classified information in 1953.

Tech poets urged to enter competition

A national poetry writing contest for students will be held in the next few months with the closing date May 1, 1957. The winning poems in this contest, sponsored by the Riverside Church, will be published in a special anthology, *Riverside Poetry-3*; two other volumes having been previously published.

The sponsors of the contest hope to get students to "submit verse original in conception and accomplished in technique . . . (to) contribute toward man's understanding of himself and his situation in the world."

Interested students should contact Dan Piper in Dabney Hall.

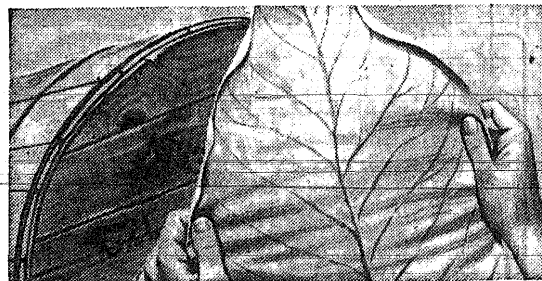


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A Campus-to-Career Case History



Al Morris (right) discusses a new amplifier system with Howard D. Thomas, one of his foremen.

"After training... it's up to you"

That's what Alfred E. Morris says about the Bell System. "And that's the way I like it," he adds. "Right now I'm in a job I didn't think I'd have for ten or fifteen years."

The job Al thought was more than a decade away is Plant Superintendent for the Hutchinson district in Kansas with Southwestern Bell. "You can sum up my work-by saying I'm responsible for the installation and maintenance of all telephone equipment in a large part of central Kansas," Al says. "In times of emergency—a tornado, for instance—I have complete charge of maintaining and restoring service."

Here's how Al describes the steps that led up to his present job: "I started out

in Bell's management training program in 1951. This gave me an excellent opportunity to learn about all jobs in the company—not just the job I'd be doing. The program was well organized, and I got a lot out of it.

"My first assignment was to coordinate a dial conversion in La Crosse, Kansas, a quarter-million-dollar operation. My next assignments were in Abilene and Lawrence. Both carried increased responsibility.

"I knew I was moving along pretty fast—but I was really surprised when my present job came up. It bears out what my wife and I thought when I joined Bell—there would be great chances for advancement."

Al Morris graduated in 1951 from the University of Kansas with a B.S. in Industrial Management. He is typical of many young men who are finding interesting career opportunities in Bell Telephone Companies, Bell Telephone Laboratories, Western Electric and Sandia Corporation. Your placement officer has more information about these companies.



BELL TELEPHONE SYSTEM

Baseball outlook for '57 season related by writer

by Bill Kern

Can our baseball team come through again in 1957? There's no doubt that last year's season, in which we were finally forced to share the pennant with Oxy, was one of our finest on record—the question is: What about the season to come?

One of the advantages of a winning season is that it increases the players' enthusiasm and will to win. This certainly seems to be working for us this year. Practice officially started four days ago and already more than twenty ballplayers have been trying out with coach Ed Preisler's ballhawks. In view of Caltech's past difficulties with lack of depth and the strenuous season being planned this is certainly encouraging.

Overall, the team figures to be somewhat weakened in pitching, but stronger at the plate than last year, with fielding largely unforeseeable. The loss of pitcher Ray Weymann, infielders Jim Kootz, Chuck Norman and Gene Nelson, and catcher Neil Herman, will certainly tend to weaken our defense, but the appearance of talented newcomers like Dennis Kull, Fred Newman, Dave Teal, Kelly Kelley and the return after a year's absence of

ace outfielder Ed Berry and pitcher Jim Snyder may make the team even stronger in that department.

Forming the core of the team will be returning lettermen Ed Nelson, Don Stocking and Chuck Malone. Conference doubleheaders will put an increased load on the pitching staff, but, led by Nelson and pitching coach Jack Peterson, they are working very hard to meet the challenge. Catching chores fall to the experience of Mike Duke, backed up by newly converted infielder Bill Kern.

As for the other teams in the conference, Oxy's success last season was largely based on speed of pitcher Dick Sovde, now graduated. Most important competition this year may be Whittier, who barely lost out of being a third "champion." Of course you can never tell what the future will hold, and "breaks" can be mighty important in the game of baseball, but we will venture to predict that Caltech will be in there figuring for the SCIA C pennant again in 1957.

The Beavers opened their season yesterday against Paz Naz and meet Westmont Saturday in a doubleheader at Santa Barbara.

Caltech netters beat Occidental

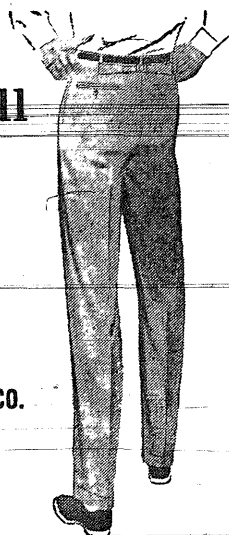
Coach John Lamb's varsity netters evened their league record at 1-1 Saturday by defeating Oxy, 6-3, on the Beaver courts. The Tigers won the first two singles matches, but Caltech's depth made the difference, as the Beavers won the third, fourth, fifth, and sixth singles.

Saturday Caltech meets powerful Redlands in a conference match.

Summary: Frank Cormia, C, def. by Bob Moore, O, 6-1, 6-1; Bernie Mueller, C, def. by Rey Maeno, O, 6-2, 6-3; Tom Hays def. Tony Cantabene, C, 7-5, 6-3, 3-6; Dave Yount, C, def. John Logan, O, 6-3, 7-5; Bob Tokheim, C, def. Dick McEntyre, O, 6-2, 6-0; Read Warriner, C, def. Bill Sherinyan, O, 6-4, 8-6; Cormia-Mueller def. Sandys, 6-4, 4-6, 6-2; Maeno-McEntyre def. Hays-Yount, 6-1, 7-5; Tokheim-Warriner def. Cantabene-Moore, 5-7, 6-3, 7-5.

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ASTRONOMERS! Long sunsets make you impatient? Do you hate standing around, twirling your telescope, waiting for dark? Cheer up... now you can fill that gap! Take out your Luckies—and you're in for a *Twilight Highlight!* Luckies are out of this world when it comes to taste. That's because a Lucky is all cigarette... nothing but fine, mild, naturally good-tasting tobacco that's **TOASTED** to taste even better. Light up a Lucky yourself. You'll say it's the **best-tasting** cigarette you ever smoked!

All-conference teams selected

Whittier College's 1956-57 SCC championship squad contributed three members to the 1957 all-conference selections announced Tuesday to lead the way in the balloting. All the other league schools except Caltech placed two men each on the ten man squad, while Beaver sophomore Fred Newman was Caltech's lone contribution.

Newman, the only sophomore of the ten players honored, earned a second team berth, as a late season scoring splurge pushed him up among the top scorers in the conference. He had single game totals of 33, 24, 23, 22, 18 and 16 points in the last few games of the season.

Only repeaters on the squad were first team members Ted Tiffany of Occidental and Whittier's Bob Bland. Tiffany was a first team selection for the third straight year, while Bland was elevated from a second team slot in the 1956 selections to this year's first team berth.

Five seniors were picked in this year's balloting, along with four juniors and one sophomore, indicating a fairly large turnover of playing talent for the 1957-58 season.

Selections:

FIRST TEAM

(no designation of positions)

Mike Gray	PC	Jr.
Sam Gardner	R	Jr.
Robert Bland	W	Sr.
Ted Tiffany	O	Sr.
Earl Reese	W	Jr.

SECOND TEAM

(no designation of positions)

Charles Hadley	W	Sr.
Howard Safer	O	Jr.
Fred Newman	CT	Soph
Ron Zumbrun	PC	Sr.
Denny Holt	R	Sr.

+On 1955 and 1956 First Team.
*On 1956 Second Team.

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WHAT IS AN ANGRY BUTCHER?

JAMES POWELL, ALABAMA
Cleaver Heaver

WHAT IS A NOISY POLITICAL MEETING?

JAMES BUTLER, BOSTON COLL.
Raucous Caucus

WHAT IS A HOPPED-UP GONDOLA?

BARBARA BACHNER, RADCLIFFE
Venice Menace

WHAT IS A WOLF IN SHEEP'S CLOTHING?

WOLLY JENNINGS, U. OF N. CAROLINA
Sham Lamb

WHAT IS FAKE CLASSICAL MUSIC?

ANNE FELL, OKLAHOMA
Mock Bach

WHAT IS A HUG IN HOLLAND?

CAROL POST, COLL. OF THE SEQUOIAS
Dutch Clutch

WHAT IS A BAD-NEWS TELEGRAM?

W. L. GARNER, IOWA
Dire Wire

Luckies Taste Better

"IT'S TOASTED" TO TASTE BETTER... CLEANER, FRESHER, SMOOTHER!

Conference relays to be held Saturday at Pomona

Caltech's varsity and frosh tracksters travel to Pomona-C Claremont Saturday to meet the rest of the SCC schools in the all-conference relays. Competition will be held in both varsity and frosh events.

Along with the relay races on the program, there will be a few individual events. Caltech's best chance for a first in the individual events is in the javelin, where sophomore Vic Johnson is among the best in the conference. Contenders for points in the high jump are Larry Kraus and Bill McClure, who are both consistently over six feet. Dick Van Kirk is a dark horse in the broad jump competition, with a best mark of over 21 feet last season, and a jump of 20 ft. 3 in. in the mud against Pasadena Nazarene.

Strong contenders for first place honors in the relay events are the members of the shuttle

hurdle relay team, McClure, Van Kirk, Bob Ingram, and Ed Krehbiel. The team is capable of covering the 480 yd. distance in less than 60 seconds, and last year's winning time by Pomona-C Claremont was 61 seconds.

A group of tireless middle distance runners makes Caltech a threat in the distance medley relay. Ron Forbess, Marty Tangora, Bob Emmerling, Tony Leonard, and Mike Rusch are the big Beaver guns in the middle distances.

Caltech's sprint relay team of Krehbiel, Forbess, Van Kirk, and Lukesh is potentially the best of the "amateur" division of the conference and could push Oxy's runners.

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Frosh Sports

BASKETBALL by Dave Singmaster

During the past two weeks the Frosh hoopsters played five games, against Occidental, Los Angeles Pacific College, Chapman, Pasadena Nazarene, and Pomona.

Wednesday, February 13, the Beavers hosted Oxy in a real thriller. Caltech opened up a lead of three points and held it to the half, but the Beaver attack was stalled by the Tigers' zone defense in the second half. Oxy gained a four point lead with five minutes to go and held it to the end, winning 46-42.

Following a ten point loss to Pacific College, the Beavers went to Chapman and easily defeated the Panther JV's 64-44. Tuesday of last week Caltech hosted Paz Naz, and the Crusaders, one of the strongest teams in the area won handily. Len Maley scored 22 points to lead the Beaver scoring.

Saturday night the frosh hosted Pomona in the season wind-up. It was another choker with the game wide open all the way. Halftime score was 21-20, Caltech; the final was 44-40 Pomona. Mell Holland was high scorer with 12 points.

BASEBALL by Lance Wallace

The first day of frosh baseball practice, last Monday, found a total of 11 candidates greeting Coach Jack Peterson. Looking especially impressive in their first workouts were John Walsh and Dave Blakemore, a pair of pitchers who also patrol the outfield and guard the hot corner, respectively. Walsh, a south-paw thrower, adds to his uniqueness with a switch-hitting style at the plate.

Others out for the team include Herm Hartung, shortstop; Lance Wallace, first base; catchers Dave Singmaster and Sid Roth, who also manages; Bill Smith, first base-outfield; second basemen Tom Jovine and Grant Carrington, Bob Golden, outfielder, and pitcher-catcher Sam Trotter.

The first frosh game isn't scheduled until third term, but Coach Peterson hopes to line up three or four practice games with high school teams before then.

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Can I advance rapidly at Beckman



You will be stimulated by working side-by-side with top engineers and scientists... and you can go as far and as fast as your ambition and ability lead you.

What are the openings for June graduates at Beckman



We have 20 growth positions open for EE's, IE's, Chem. E's, ME's in Research & Development, Manufacturing and Sales.

How can I learn more about opportunities at Beckman



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"You know how you always want your children to have it a little better than you did? It's a normal and natural desire.

"Yet I wonder, sometimes, if we aren't short-changing the generations coming up when I see how we're running the national 'store.'

"Back in 1915 our national debt amounted to \$11.84 per person. Today your child comes into the world owing \$1,625.

"Private debt is ballooning too—from 154 to nearly 450 billions since 1945.

"Inflation? Measured by what it bought in 1945, a 1956 dollar was worth only 67 cents.

"Our annual tax bill is something, too. One out of every four days you work goes for taxes.

"Sure we have to pay for the wars we've fought. And America's responsibilities as a world citizen are extremely expensive.

"And in spite of all I've said, we're all living better than ever.

"But part of this increased standard of living is being bought on the installment plan. The average American family today owes 13.6% of its annual income for things it has bought on credit—compared to 6.8% in 1948.

"So it seems to me that all of us might be doing

those future generations a service by taking a careful look down the road we're traveling."

* * * *

As a citizen of the United States and a Supervisor of Economics for Union Oil, Warren Buell has a right to be concerned about the future.

For each of us has the responsibility to do what he can to safeguard the principles that have made this country prosperous and free.

YOUR COMMENTS ARE INVITED.—Write: The Chairman of the Board, Union Oil Company, Union Oil Building, 617 West 7th Street, Los Angeles 17, California.

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