Leading atomic scientist will meet with students informally

Dr. Robert Oppenheimer, leading atomic scientist and director of the University of California, will on Tuesday carry on a semi-informal meeting with students at the Caltech campus to spend five days meeting informally with members of the undergraduate student body.

Dr. Oppenheimer's visit is being sponsored by the Caltech YMCA under the direction of its president. Scheduled events will include:

- An informal meeting with students in the campus
gymnasium
- A luncheon with the students in the dining hall
- A meeting with the student body

Dr. Oppenheimer is scheduled to leave the campus on May 25.

Oppenheimer's 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 Formal.

The program, which is scheduled to begin at 6:00 and end at 12:30 tomorrow evening, will feature a variety of events.

The first event will be a cocktail hour, followed by dinner, dancing, and a variety of entertainment activities.

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

It was a typical day. The Ricketts' fire hose was pouring too hot water into the Blacker courtyard, while one man after another was escalated by the waiters to serve the distinguished shower. Water balloons filled the air as the industrious Caltech undergraduates sought a moment of pleasant relaxation in friendly competition.

Enter, with "You'd better cut that out, G—- G—-it. It's a pretty, friendly woman with some large envelopes and a notebook under one arm. An upskirt class is quickly ambiguously the situation with his 100 IQ, straight back, and a nose so smooth away from the black pit of confusion and vice.

Before he had gone half way across the courtyard, the visitor noticed that he had his attention. Sprawling in front of him, a pet, friendly woman with some large envelopes and a notebook under one arm. An upskirt class quickly ambiguously the situation with his 100 IQ, straight back, and a nose so smooth away from the black pit of confusion and vice.

Frosh meet called

The 1957 Frosh Club announced Tuesday that there will be a meeting of the freshman class this Thursday at 1:15 in the 1957 Frosh Club meeting at a time and place to be determined by the Frosh Club officers. The meeting will be held in the Blacker Dining Hall.

Y News

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

Y News will be held Tuesday in the Commons. The forums will meet jointly with the Y News editors to alert officers for third term.

Plans are being made for the Spring Seeley Conference which will take place on May 4 and 5. As the theme is still undecided, certain sessions are being held, and a date is to be set.

The annual Seeley Conference will be held in the southern California area.

(Continued on page 6)
Doubled and Redoubled

by Kay Nagahara

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-4 2
H-6 3
D-10 5
C-10 5

East
S-6 10 2
H-6 5 3
D-4 K Q 8 7
C-3 3

South
H-10 6
D-5 4 3
C-A K 9 4

Dealer: West

Vulnerable: Neither side
Recommended Bidding:

West
1 spade
2 clubs
2 diamonds
Pass
4 diamonds
Pass

North
1 spade
2 spades
Pass
3 diamonds
Pass
4 diamonds
Pass

With West as the declarer, North leads the king of clubs. After he sees the dummy, South must automatically play the ace of clubs. He should know his partner has the ace and three or 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 really has to at least two spades from the closed hand. The defenders' only possibility is to attack the heart before the declarer can establish 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 had the bid suit. South must have the queen! North has to underline 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 clubs and two heart tricks settling 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 doubloon queen he will make an overtrick bid in that case, then what reason did South play the eight? It is very unlikely that South has any club tricks but if he does he will get it in time to lead a heart for the set.

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 —for excess of the supply. And, from now on in, you are going to be sought after more than a triple threat will back 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 starting out 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 the electronic television. Young, by being the newest division of the world-wide International Telephone and Telegraph Company, devoting our efforts exclusively to research, development and production of military and industrial electronics, and atomic energy.

All of which makes Farnsworth big enough for stability and technical perspective, yet small enough for mobility, flexibility and recognition of the individual. Here you will be associated and encouraged by a team of eminent scientists and engineers with many "firsts" in their credit in the field of electronics. Here you will be heard — not just one of the herd.

We hereby 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

Farnsworth ELECTRONICS CO., FORT WAYNE, INDIANA

RADIO CORPORATION OF AMERICA

Specialized training program

Earn a regular professional engineering salary as you work on carefully selected assignments giving you a comprehensive view of RCA engineering. Your individual interests are considered and you have every chance for permanent assignment in the area you prefer. Your work gets special review under RCA's advancement plan and you benefit from the guidance of experienced engineers and interested management.

Following training, you will enter development and design engineering in such fields as Radar, Airborne Electronics, Computers, Missile Electronics. If you prefer an engineering degree, there are positions in quality, material, or production control, test equipment design, methods. You may also enter development, design or manufacturing of electron tube, semiconductor components or television.

Direct hire

If you are qualified by experience or advanced education, your interest may point to a direct assignment. The RCA management representative will be glad to help you. Many fields are open — from research, systems, design and development to manufacturing engineering — in research and manufacturing, as well as radar, electron tubes, computers, and many other challenging fields.

... and you advance

Small engineering groups mean recognition for initiative and ability, leading on to advancement that's professional as well as financial. RCA further helps your development through reimbursement for graduate study under a liberal tuition refund plan.

Now... for a longer look at RCA

See your placement director about an appointment with an RCA engineering management representative who will be on campus...

Tuesday, March 5, 1957

Talk to your placement office today — ask for literature about your RCA engineering future! If you are unable to see RCA representatives, send your resume to: Mr. Robert Hakisch, Manager College Relations, Dept. C4-S1

RCA Corporation, Dept. C4-S1

Camden 2, New Jersey
Garment gone, gets goodies

At the Blio field trip, Wee Gordo lost his vest. With true
section A skill, he parlayed this
 dazzling blow into a free dinner
and applied his lesson by luring
Biologist J. Clark and Lovely
Woman.

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

Trusting Troop tells tale

And among the Trolls, puzzle
ment and in the Case of
Galloway. Claiming to be a
Married, he has ignored his
Practically Wife for these
many years.

"I trust her," he says, with
that brisk which is identically
equal to ignorance.

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

The Garrett Corporation com-
prises one of the most unique and
diverse research, engineering
and manufacturing organizations
in the world.

The parent company, founded
in 1936, has grown from three persons
or nearly 10,000 scientists,
engineers and production specialists.

From the AiResearch laboratories
have come the pioneer developments
in aircraft components and systems
which have pushed back the barriers of
speed and altitude. Today, 90 per cent of
the free world's aircraft carry this equipment.

Divisions and subsidiaries are also engaged in
creating industrial products in such varied fields as
marine equipment and turbochargers for diesels, and
in supplying sales and installation engineering services to
airframe companies, airlines and the military.

Through foreign licensees, Garrett's products and
engineering services now circle the globe.

Garrett's growth has been rapid and its position sound
and stable, mainly because of the creative ability and ideas
of its engineers.

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**JOBS OPPORTUNITIES • THE GARRETT CORPORATION**

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**TYPICAL PROJECT ACTIVITIES**

- Gas turbine auxiliary pneumatic and electric power units.
- Engine and rotating machinery design and analysis.
- Test cell installation and test set-up.
- Gas dynamics, thermodynamics and mechanical design.
- Preliminary design from analytical and theoretical considerations for high-level technical
work in aerodynamics, stress analysis, thermodynamics, heat transfer, nuclear power and
mathematics.

**INTERVIEWS on CAMPUS... THURSDAY, MARCH 7**

B.S.—M.S.—PH.D. CANDIDATES
**Of human sorrow**

"...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 of 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 friend of his who was nearly engaged in the Communist occupation of the West Coast. From this time forward, he had little to do with this type of group;

A veil of secrecy still covers the nature 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 sufficient to deny clearance.

New 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.

Dr. Oppenheimer's sympathy with the Communist Party began 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. "I think I met three physicists who had actually lived in Russia in the 1890's..." What they reported to seemed so solid, so unambiguous, 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 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."

---

**EXCEPTIONAL CAREER OPPORTUNITIES**

**with the**

**Electronics Laboratories**

**GOODYEAR AIRCRAFT CORPORATION**

**MISSILE AND ELECTRONIC SYSTEMS, MICROWAVE, SERVOS, RADAR**

Campus Interviews Thursday, March 28, 1957 for PHYSICS and ELECTRONICS ENGINEERING MAJORS who are interested in

**ELECTRONIC RESEARCH, DEVELOPMENT, DESIGN, AND PACKAGING**

**GRADUATE FELLOWSHIP PROGRAM AVAILABLE IMMEDIATE OFFERS TO QUALIFIED CANDIDATES**

Dr. S. D. Robertson

A. E. Manning

Personnel Representative

**Technical Representatives**

**INVITATION TO ENGINEERING STUDENTS**

to learn the facts about an engineering career with

**The City of the Future,**

**LOS ANGELES**

Like:

**PAY — entry salary range $464 to $608**

**CHALLENGING WORK — helping to build the fastest-growing area in the world**

**PROMOTION — on your own abilities thru competitive examinations**

Discuss the opportunities and advantages of a career with The City of the Future.

O. L. Sidenfaden, Principal Electrical Engineer, on Campus Wednesday, March 6, 1957.

Check with the Placement Office for details.

City of Los Angeles Recruitment Division

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**NEW VERSION OF a record seller**

Arroyo University Collar has been on the campus hit parade right from the start. And now this famous button down collar (with center button in back) is available in a new shirt! Traditional Ivy League styling throughout in a pulllover model, offered in a choice of two placket lengths: 7" (2 buttons) 12" (3 buttons). Available in solid colors, checks, stripes and plaid. $5.00.

**ARROW CASUAL WEAR**
J. Robert Oppenheimer

the specific events of those years between 1942 and 1948. However, one can conclude from the testimony of former colleagues of Oppenheimer that Dr. Robert Bethe and Dr. Leo Szilard were indeed directors of the Institute for Advanced Study at Princeton, as Dr. Oppenheimer, more than any other single person, was responsible for the development of the atomic bomb.

The brink of history

In July of 1945, Dr. Oppenheimer stood on the brink of history. Even before the victory with ultimate determination, a call had been made to "get rid of the atom bomb in preponderance, in size, in steps towards the_a ward national control of atomic energy. 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.

An honest opinion

The record of Dr. Oppenheimer and the GAC, however, remained unquestioned if it had not been for one unsettling incident. 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 reconsideration of its atomic program. Advice was asked of the GAC. In Dr. Oppenheimer's letter to the GAC in 1952, he stated: "The GAC stated its unanimous opposition to the initiation by the U.S. of a crash program (of 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.

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. Oppenheimer to be a loyal citizen. In the majority report it was said that Dr. Oppenheimer "must 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 vote of one to one that the criteria of the AEC security code did not permit them to allow Dr. Oppenheimer to hold a security clearance.

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 pleaded his time to his position as Director of Los Alamos and his resignation to Caltech.

"A magnificent opportunity"

The moral implications of atomic energy brought Dr. Oppenheimer, the man who had been almost unknown to society and politics in 1938, to the conclusion that he was the scientist's duty to guide its application. Writing in Fondation for World Order in 1947, Oppenheimer looked back to the hopes that he and his followers shared in 1943: "It seemed to us in 1943 that there was 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 same, alien states . . . we. . . . we only wanted to start down the path of peace in international relations 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 again to give advice to both the Executive and Congress on atomic energy. He was an advisor 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 chairman.
We invite you to investigate the career advantages at CONVAIR

the young man's Company

At Convair the accent is on Youth. We seek men with vigorous young minds ... young men trained to think in the new dimension of exploration into Outer Space. Here is opportunity. Because Convair is engaged in the widest diversity of aircraft and missile projects in the U.S. today. Talk with the men from Convair (see dates). Let them tell you about the exciting new opportunities at Convair.

CONVAIR-ASTRONAUTICS
During 1957, groups of outstanding scientists and engineers, together with hand-picked young graduates, will occupy the new $40,000,000 Convair-Astronautics facility. Here, in a unique environment, they will develop and design ATLAS—a new top-priority Intercontinental Ballistic Missile (ICBM)—the forerunner of travel into space. You may qualify for a position with Convair-Astronautics' ICBM project—one of the most important of its kind in the United States.

CONVAIR POMONA
Located in Southern California, Convair Pomona is the first fully-integrated missile plant in the U.S. Here the Navy's TERRIER supersonic missile is designed and built. You, as a graduate engineer or science major, can build an outstanding career in electronics and missiles systems at Convair Pomona. You will work with the most modern electronic equipment known. Better yet, you will work with the kind of friendly, informed engineer-scientist groups that are paving the advance into outer space. And you will live where the climate and opportunities for spacious living and outdoor recreation are unsurpassed in America. Pomona, California

CONVAIR SAN DIEGO
Plan your career with America's top airframe builder. Here you'll find a wide range of opportunities for the graduate engineer. You'll work with a congenial group in the Company famous for such advanced aircraft as the world's fastest commercial jet airliner, F-102A—first supersonic interceptor; Sea-Dart—first water-based jet fighter; and long-range research on nuclear aircraft. There is no ceiling on your chances to advance and make a name for yourself at Convair San Diego.

SAN DIEGO, CALIFORNIA

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UNUSUAL FEMALE
(Continued from page 1)
peared into his room with her.
Some time later she exploded into the lounge (door still was not be-
seen), and noticed (Alan, slouched) that Zack Ma-
thin had begun to peruse The New Yorker.
"Oh! You're reading The New Yorker. How wonderful! Now you just read it for a while. Oh, that will be fun. 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 belligerently to Greasy.) Oh, good! Now you just read that until I come back...
"Speak—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 inter-
teresting 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 ex-
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 direc-
tion that the atomic energy program should take.

Interest in Communism
In his earlier years, Dr. Op-
penheimer was almost complete-
dissociated from society;
just love to look at oil paint-
ings," and began to examine the masterpiece on the walls.
After ten seconds at each of
the two bulletin boards she noticed that she felt "like the heroine of
A Tree Grows in Brooklyn. She loved to read things—even laun-
dry lists," and closed the wax beside the covering 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 wel-
come.
When he first began to take an
interest in the community, dur-
ing the depression, he was at-
tracted by some of the doctrines of Communism. He fell out of
sympathy with the Communists
before the war, but his close
association with them previ-
sus, along with his original op-
position to the H-bomb, was con-
sidered sufficient by the Atomic
Energy Commission to deny
him access to classified informa-
tion in 1953.

Tech poets urged to enter competition
A national poetry writing con-
test 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
Poetry-5: two other volumes
having been previously pub-
lished.
The sponsor of the contest
will help students to "submit
verse original in conception and
accomplished in technique..." (to contribute toward man's un-
derstanding of himself and
his situation in the world.)

Interested students should con-
tact Dan Piper in Dabney Hall.

A Campus-to-Career Case History

"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 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 see 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-
living in 1951. This gave me an excellent
opportunity to learn about all jobs
in the company—not just the job I'd be-
living in 1951. This gave me an excellent
opportunity to learn about all jobs
in the company—not just the job I'd be-
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Baseball outlook for '57 season related by writer

Caltech netters beat Occidental

Coach John Lamb's varsity netters earned their first win of the year in a 6-0 decision over Occidental College last Saturday. Playing on the home courts, the Beavers won the first two singles matches, and Caltech's depth made the difference, as the Beavers won the third, fourth, fifth, and sixth singles.

Summary: Frank Cornia, c., def. by Bob Moore, 6-1, 6-4; Bentle Mueller, c., def. by Ray Maeno, 6-2, 6-3; Tom Hays def. Tony Cantabene, 7-5, 6-3; Dave Yount, c., def. John Logan, 6-3, 6-3; Bob Tokhein, c., def. Dick McEntyre, 6-2, 6-0; Herb Warriner, c., def. Bill Sheehy, 6-4, 6-4; Cornia-Mueller def. Sandy, 6-1, 6-2; Maeno-McEntyre def. Hays-Yount, 6-4, 7-5; Tokhein-Warriner def. Cantabene-Moore, 5-7, 6-3, 7-5.

Overall, the team figures to be somewhat weakened in pitching, but stronger at the plate than last year, with holding largely unchangeable. The loss of pitcher Ray Weymann, infielder D. S. Koontz, Chuck Monroe, and catcher Neil Herman, will certainly tend to weaken our defense, but the appearance of new talent newcomers Dennis Koff, Fred Newman, Dave Teol, Kelly Kealy 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.

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

ASTRONOMERS! Long sunsets make Whittier College's Twilight High-School Observatory a popular spot for skywatchers. Some of the members of the SCIAC pennant-winning Whittier College's Staff, including Fred Newman, were elevated to the first team in the conference. Newman, who was first in doubles, also placed first in singles.

Selections:
FIRST TEAM
No designation of positions
Mike Gray, PC, Jr.
Sam Gardner, PC, Jr.
Robert Sealy, PC, Jr.
Robert Sealy, PC, Jr.
Second Team
No designation of positions
Charles Hadley, PC, Jr.
Howard Roper, PC, Jr.
Fred Newman, CT, Soph
Ron Zunbrun, PC, Jr.
Denny Holt, PC, Jr.

Astronomers are essential in the game of baseball, but a good team can win without them. This may be the case this year, as the SCIAC pennant again in 1957. There's no doubt that last year's season, in which we were finally forced to share the pennant with Occidental, was one of our finest on record—the question is What about the season to come?

One of the biggest advantages of the season is that it is based on 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 Presler-ter's homosexuals. 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 holding largely unchanged. The loss of pitcher Ray Weymann, infielder D. S. Koontz, Chuck Monroe, and catcher Neil Herman, will certainly tend to weaken our defense, but the appearance of new talent newcomers Dennis Koff, Fred Newman, Dave Teol, Kelly Kealy 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.

Sending the form of the team will be returning lettermen Ed Nelson, Dave Stokoe, and Chuck Malone. Conference Ballplayers 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 Howard Roper is back for his third year of duty; Mike Duke, backed up by newly converted pitcher Dick Sovde, now graduated. Most important to the team is the return of Ed Berry, who will be returning letterman.

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

All-conference teams selected
Whittier College's 1956-57 SCIAC championship squad consists of three members to the 1957 All-conference selections announced Tuesday. Only a few years ago in the baseball, all the other league schools except Caltech placed two men 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 spurt pushed him among the top scorers in the conference. He had single game totals of 33, 24, 23, 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 second straight year, while Bland was elevated from a second team slot in the 1956 season 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, PC Jr.
Robert Sealy, PC Jr.
Robert Sealy, PC Jr.
SECOND TEAM
No designation of positions
Charles Hadley, PC Jr.
Howard Roper, PC Jr.
Fred Newman, CT, Soph
Ron Zunbrun, PC Jr.
Denny Holt, PC Jr.

---On 1955 and 1956 First Team.
---On 1956 Second Team.
Conference relays to be held Saturday at Pomona

Caltech's varsity and frosh tracksters travel to Pomona-Claremont Saturday to meet the host of the SCI 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 first 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. 8 in. in the mud against Pasadena Nazarene.

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

bobsled relay team, McClure, Van Kirk, Bob Ingram, and Ed Krehbiel. The team is capable of covering the 440 yd. distance in less than 60 seconds, and last year's winning time by Pomona-Claremont was 61 seconds.

A group of tireless middle distance runners makes Caltech a threat in the distance medley relay. Ron Forbes, Marty Tannora, Joe Hammerling, Tony Leonard, and Mike Ruch are the big Beaver guns in the middle distances.

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

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 69-62.

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 host Pomona in the season wind-up. It was another choker with the game wide open all the way. Half-time score was 21-20, Caltech: the final was 44-40 Pomona.

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 greeter. 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 southpaw thrower, adds to his uniqueness with a switch-hitting style at the plate.

Others out for the team include Herb Hartung, shortstop; Lance Wallace, first baseman; catchers Dave Singmaster and Sid Roth, who also manage Bill Smith, first base-outfield; second baseman Tom Jovine and Grant Carrington, third baseman; and pitcher-catcher Sam Trout.

The first frost 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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"Yet I wonder, sometimes, if we aren't shortchanging the generations coming up when I see how we're running the national 'store.'"

"Back in 1915 our national debt amounted to $1,184 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."