

Volume LII

Prof. Feynman At Assembly

Quantum Mechanics Subject of Talk

"The Laws of Mechanics at Atomic Dimensions" (another name for it is quantum mechanics) will be the academic-sounding title of the talk to be given by Prof. Richard Feynman at tomorrow's assembly.

It seems that the behavior of atomic particles doesn't run exactly parallel to that of billiard balls, to use a worn out analogy, Prof. Feynman stated. As a matter of fact, physicists aren't certain whether these so-called particles are really particles at all. They might be a type of wave motion, he continued. The study of their actual behavior constitutes the basis of quantum mechanics.

Witty Speaker

After having Prof. Feynman over for dinner last Thursday night, the members of Ricketts house will testify to the fact that this assembly should be very interesting and entertaining.

Prof. Feynman attended MIT and Princeton and was professor of theoretical physics at Cornell for five years before coming to Tech. During the war he worked on the atomic bomb project at Los Alamos.

Amour d' Ozarks

Five points of hillbilly living were presented to Techmen at last Friday's assembly by a group of actors from PCC. "Sparkin'" was the name of the one-act play presented.

In addition to the play, the group also presented a 15-minute act concerning life aboard a whaling ship.

Y's Doings

by Rubinstein

The Frosh Luncheon club, meeting Tuesday noon at the training table, will have as guest speaker Oliver Prickett of the Pasadena Playhouse. He will speak on "The Theatre and the Activities of the Playhouse."

Hedley to Speak

The Faculty-Graduate Luncheon club meeting Wednesday noon at the Athenaeum, will hear Dr. George Hedley, chaplain of Mills College, speak on "The Superstitions of the Irreligious."

That evening Dr. Hedley will speak to the Wednesday Evening Discussion group meeting at the Y residence, 391 So. Holliston, on "Religion and Our Political Decisions." This will be the first of a series of four sessions.

Comic Topics

Other topics will be "Religion and War," "Christianity and Economic Justice," and "Christianity and Communism."

Israel Problem

Last Monday noon the Y Faculty Luncheon group heard Dr. Bonne of Hebrew University of Israel speak on "The Problem of Incentive in Underdeveloped Areas."

Dr. Bonne, talking to a packed dining room, stated that the fundamental issue of the world of the second half of the 20th century will be development of these backward areas.

Different Problems

He pointed out that the problems of underdeveloped areas are not the same as those existing in Europe before the industrial revolution. Speaking mainly on Asia, Dr. Bonne stated that there were four main reasons why the new situation is encountered.

The first of these was the urge of the people for changes and improvement. This in a large extent is lacking in Asia today.

Limited Capital

The second problem was one dealing with the desire of orientals to invest in land, thus limiting capital for speculation in industry.

The third point was that the formation of an effective labor force is something that cannot be done over night. The absent-

(Continued on Page 4)



Dr. Horace N. Gilbert, shown above pointing to Frankfurt-am-Main, in the American Zone of Germany, where he worked for a year, will speak in the Athenaeum tonight. A professor of business economics here, Dr. Gilbert served as economic adviser to our occupational government in Germany.

Prof. Gilbert Reports On German Economics

Horace N. Gilbert, professor of business economics at Caltech, has recently returned from Germany where he served with the state department on the staff of the U.S. High Commissioner for Germany. He spent a total of 18 months abroad—from October of 1949 until just last month.

Economic Adviser

Prof. Gilbert's general assignment was to study German industry and to advise on it. More specifically, he was concerned with the determination of industrial sectors to receive Marshall Plan aid; he reviewed the dismantlement program with the intent of stopping dismantlement where there was Marshall Plan significance; he tried to remove industrial disabilities caused by the limitations placed on industry by the occupational government; and he was economic adviser in the preparation of contractual agreements to replace occupation statutes.

Our Policy OK

In trying to put over our ideas, Prof. Gilbert said, we are not as effective as France and England. These two countries have interfered with our policy of salvaging German industry. Prof. Gilbert stated that our policy is OK, but we have not been able to sell it as well as the British and French have sold theirs. One reason for this, he feels, is that we do not have the most competent people over there to do the selling.

Although the Germans have made what he called a "remarkable economic comeback," Prof. Gilbert feels that the American policy is the best one, and we shouldn't stop trying to sell it. "It may be too late," he said, "but it's worth trying."

Germany in Good Shape

Nevertheless, Germany appears to be in good shape. If it

Soph Class Meeting

The sophomore class will hold one of its rare meetings Monday morning at 11 in 201 Bridge, according to Jim LaTourette, class president. New officers will be nominated, and the subject of dues will be discussed.

Campus Calendar

THURSDAY, APRIL 26
7:15 Board of Directors Meeting
FRIDAY, APRIL 27
11:00 Assembly, Culbertson
1:30 Golf, Oxy Varsity at Oxy
3:00 Track Conference Meet, Frosh at Pomona
4:30 Swimming, Whittier Varsity and at Tech
7:30 Demonstration Lecture, 2018
SATURDAY, APRIL 28
9:00 Art Class, 04 Mudd
1:30 Tennis, Whittier Frosh at Whittier; Varsity at Tech
1:30 Conference Meet, Varsity at Oxy
2:15 Baseball, Oxy Varsity at Tech
Whittier
SUNDAY, APRIL 29
7:30 Film Classics, "Room Service"
MONDAY, APRIL 30
7:30 Film Classics, "Room Service"
TUESDAY, MAY 1
4:15 Baseball, LaVerne Varsity at Tech
4:30 Swimming, Oxy Varsity and Frosh at Tech
1:30 Beginning Music Theory Course
Culbertson
5:00 Advanced Music Theory Course
Culbertson
7:30 Band Practice, Culbertson

California Institute of Technology
Pasadena, California, Thursday, April 26, 1951

No. 25

Air Force ROTC Program Begins Next Year at Tech

Four Year Course Will Turn Out 50 Active Reserve Officers Annually

Caltech was advised today of its selection by the U. S. Air Force as the site for a new Air Force ROTC unit.

Enrollment in the four-year program will begin with the freshman class entering the Institute next fall.

DuBridge's Statement

(In Washington, where he is attending the University of Minnesota Centennial, Lee A. DuBridge, Caltech president, said

"The California Institute of Technology has always stood ready to serve national defense in time of need. At this time therefore, the Institute is glad to make its facilities available to the United States Air Force for use in providing technically trained officers."

"The need for officers with adequate scientific and engineering background is critical and the shortage is severe," Dr. DuBridge continued. "We are confident that a large number of Caltech students will welcome this opportunity to prepare themselves to serve their country. We are honored that the Air Force has selected this institution as a location for one of its new ROTC units."

Faculty Approval

Acceptance of the program was voted unanimously by the Caltech faculty, and a majority of students expressed approval of the proposed unit.

This will be Caltech's second ROTC unit. The first was established in 1916 and disbanded in 1929. The Institute had a Navy V-12 program during World War II.

The program, which is being undertaken with the understanding that a minimum of 50 officers will be commissioned annually starting with the first group to complete four years' training, will be staffed by three officers and three airmen. The senior officers, who will be appointed Professor of Air Science and Tactics, and the other officers, who will have appropriate academic ranks, will teach material prescribed nationally.

Two Years Basic

The first two years of the program will consist of basic courses in air science and military drill, with more specialization in the last two years. The freshman-sophomore group will have two class hours and one drill period weekly, while junior-senior men will be in class four hours and have one drill period a week.

Upon completion of the four-year course, the graduates will be commissioned second lieutenants in the U. S. Air Force Reserve, and will be subject to call to active duty at any time.

Students will not live in barracks and will wear the blue air force uniforms which will be provided them only for air force classes and for drill. They probably will be deferred from induction into the army under the selective service law as long as they maintain good standing in the air unit as well as Caltech.

One Summer Training

Reserve officer candidates normally will be required to spend part of a summer in training at an air force base between junior and senior years.

Resignation from the AFROTC is possible at any time.

Students enrolling in the ROTC program must meet the standard Caltech requirements for admission. Any C.I.T. freshman, except those with major physical disabilities will be eligible for the four-year course.

The faculty committee which negotiated with the Air Force included L. Winchester Jones, chairman; Foster Strong, R. R. Martel, E. H. Swift, and E. C. Watson.

Rhodes Scholarships Open to Outstanding Caltech Students

Internationally minded students interested in studying abroad should take note of the annual Rhodes scholarships offered to students throughout the nation.

Eligibility

Men between 19 and 25 years old who will be in the junior class by the time they graduate and are single U.S. citizens are eligible for the scholarships. Candidates are chosen on both scholastic and extra-curricular achievements.

Those interested in applying should see Dr. Norman Davidson in 102 Gates. Students applying before Nov. 3 will be notified of acceptance in December and will be off to Oxford the following October. The grants are valued at 500 pounds sterling, equivalent to \$1400 in U.S. money and are granted initially for a period of two years, extensible if the student's work warrants it.

Dr. Davidson, who is handling applications here, and was himself a Rhodes scholar, emphasized that the selection of students is not made on a purely scholastic basis or just on campus activity but with respect to

Intellect and character.

Exceptional Opportunity

The Rhodes scholarships present to exceptional persons an opportunity to study abroad under prominent men in their field and to benefit by the personal instruction peculiar to the Oxford tutorial system. The scholarships are designed to enable the student to vary his educational experience and achieve a greater potential of work and service.

Students interested in competing for these scholarships should consult their professors, and whatever material that is available concerning the nature of the work they are interested in as it is being studied at Oxford.

Navy Commissions Offered to Grads

The U. S. Navy is offering to all prospective graduates an opportunity to apply for appointment to commission in the U. S. Naval Reserve immediately. Basic qualifications depend on draft or selective service status and educational background.

Draftees May Apply

Those students who become eligible for the draft upon graduation may apply for the general line program or the Medical Service Corps Program for immediate active duty. Those students who are not eligible for the draft upon graduation may apply for the other programs; i.e., general line, electronics specialist, petroleum engineer, medical service corps, supply corps, or civil engineer corps.

Students who are interested in obtaining further information should inquire at Dean Eaton's office, 119 Throop, or at the Navy Recruiting Station and Office of Naval Officer Procurement, 751 S. Figueroa St., Los Angeles 17.

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The Beavers-Who They Are

Ever since its establishment in 1935, the Beavers has been one of the most misunderstood and misinterpreted organizations on the Caltech campus. Because many of its activities and services are somewhat unpublicized, students are often tempted to think of the Beavers as a "mutual adoration society" which performs no useful functions. The fact that most of its members are active in student body offices, and that membership is by invitation, understandably causes many to believe that the Beavers is something like an animated Honor Key.

Platform of Service

One of the principal platforms upon which the Beavers was founded is the performance of service in all phases of student and Institute activities. Its members must logically, therefore, consist of men who have shown themselves willing to serve the Institute voluntarily and frequently. If many of its members happen to be student officers, then, it is because those who voted them into the organization believe these men will enthusiastically join in the many Beaver services.

Besides the basic aim of service to the Institute, the Beavers strives to broaden the intellectual interests of the undergraduates into fields other than engineering and science. It is now mostly through individual effort that the organization carries out this function, although at one time it supervised freshman attendance at assemblies, certain campus lectures, and weekly bulletins on important events at Tech.

Faculty Advisers

The Beavers also endeavors to develop student leadership, to improve "school spirit," and help make relations between the student body and the faculty harmonious and mutually profitable. For these reasons there are certain faculty members of the organization who offer their viewpoints, explain the policies of the faculty, and act as valuable advisers to the Beavers. In the field of school spirit, the Beavers encourages attendance at Varsity games, and during the War, when such a service was badly needed, they operated a car-pool system which enabled everyone to see our teams compete.

The Big Three

At the present time the Beavers performs three outstandingly important duties, the first of which is the student camp for incoming freshmen. Organization and supervision of this annual event is left in good part to Beavers, who choose which old students shall attend, arrange for the cabins assignments, run a commissary, plan the lecture program, transport supplies to and from the grounds, and so on, ad infinitum.

High-School Propaganda

The annual program of high school talks is left in the hands of the Beaver vice-president, and is one of the most important sources of publicity Caltech possesses. Students make trips to various high schools in perhaps a 50-mile radius, lecturing to college prospectives about the curricula, opportunities, and advantages of Caltech.

Supervision of Pajamarino

Finally, the supervision of the Pajamarino may be cited as a major Beaver responsibility. In cooperation with the ASCIT Rally Committee, the Beavers helps make the numerous arrangements for the parade, the entertainment, and the retention of reasonable order during the gala evening.

In its effort to serve the Institute, the Beavers seeks the cooperation of the entire student body, and hopes that it will be recognized chiefly as a service organization, with the aim of bettering student life on the campus as well as aiding the school itself.

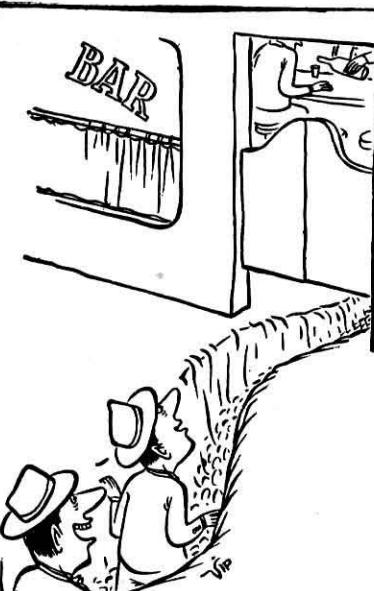
Bernard Engholm
President, Beavers

The Engineer

Who is the man designs our pumps with judgment, skill and care? Who is the man that builds them and keeps them in repair? Who has to shut them down because the valve seats disappear? The bearing-wearing, gearing-tearing Mechanical Engineer. Who makes the juice for half a cent and wants to charge a dime? Who, when we've signed the contract, can't deliver half the time? Who thinks a loss of twenty-six percent is nothing queer? The volt-inducing, load-reducing Electrical Engineer. Who is it that takes a transit out to find a sewer to tap? Who then with care extreme locates the junction on the map? Who is it that goes to dig it up and finds it nowhere near? The mud-bespattered, torn and tattered Civil Engineer. Who builds a road for fifty years that disappears in two? Then changes his identity so no one's left to sue? Who covers all the traveled roads with filthy, oily smear? The bump-providing, rough-on-riding Highway Engineer. Who thinks without his products we would all be in the lurch? Who has a heathen idol which he designates 'Research'? Who tints the creeks, perfumes the air, and makes the landscape dream? The odor-evolving, grass-dissolving Chemical Engineer.

Egad!

Have you heard about the garbage man's daughter? She's not to be sniffed at.



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Root Mean Square

One of the most talked-about subjects recently is the Truman-MacArthur controversy, and to test student opinion on this topic this question was asked: "In the recent Truman-MacArthur clash, do you side with Truman, MacArthur, partly with both, or do you have no opinion?" It was agreed almost universally that the question was too general. Of those who support Mr. Truman many stated that they supported him only with respect to his firing of MacArthur, and not with respect to his foreign policy. Whatever they mean, though, the figures stand as follows:

For Truman	50
For MacArthur	21
Partly for both	19
No opinion	10

Total 100

The next subject under consideration was the matter of the new plus-and-minus grading system. The question was, "If the old system (without plus and minus affixed to the grade) had been used, would your grade-point-average have been higher, lower, the same, or don't you know?" Results:

Higher	29
Lower	34
The same	25
Don't know	12

Therefore the new system seems to have helped more students than it hurt. Despite the effect on the GPA, 75% of those asked approved of the new system.

The third and last question was of great interest to the Tech staff since it concerns your reaction to the feature page. It turns out (as we expected) that Campus Brewins is the most generally read column, and we were glad to hear comments about its being somewhat better than it has been in the past. It is also encouraging to note that the editorials are the second most widely read feature. The exact question was, "Which of the following columns do you read? Which do you like?"

Read it Like it

Campus Brewins	79	54
Editorials	64	51
Buttin' In		
(sports page)	61	55
Space Beaver	31	25
On the Record	29	24
Who Dealt This		
This Mess?	18	18

It is realized, of course, that columns such as Space Beaver (science-fiction) and the bridge column (Who Dealt . . .) have strictly limited appeal, and will not be as widely read as a general column such as Brewins.



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"Men's Distinctive Fashions"

*So many foods and drinks are more bracing with a few dashes of zesty Angostura! Try it in salad dressings, on fish, ham . . . and of course, in Manhattans and Old Fashioneds!

CAMPUS BREWIN'S

Editorial note: During the past few weeks the editorial staff has been discussing and experimenting with this column, and the following policy has been established concerning Brewin's. The writers of this column shall remain anonymous, and it will be read only by the feature editor and the editor-in-chief before publication.

Since by its nature Brewin's can become a very malicious piece of writing, no girls' names shall be mentioned in it. Also if anyone has a legitimate reason why he thinks his name or escapades should not be included, either of the above editors will listen to his sad story. It is hoped that these new policies will help make Brewin's a less vicious and more collegiate column.

Shades of last term! The Beak stood placidly on the corner of the stairway wondering how people could become so hardened to their environment. They hustled by . . . books, slide rules and thoughts of the impending doom in week five. We gazed again at Apollo, and waddled back to the student houses.

Ricketts Baby

Before we could get through the Ricketts lounge an enthusiastic crowd of Brad Housers stamped in our direction. When the cloud lifted there were numerous cigars stuffed in the Beak's hyper boll weevil coat. Mrs. Houser now has an eight-pound eleven-ounce baby girl to

take care of now. Oh, well . . . better late than never.

Nevada Escapade

Whilst visiting his slot machines in Las Vegas der Beak espied familiar fezes. Porisky and Dave Elliot were observed observing a certain wheel at the tion with statistics, books, graphs, tables, slide rules, stopwatches, and a cleverly marked kitchen sink for tedious hours; they had their system . . . it couldn't lose. And it didn't . . . but it didn't win, either. The house forbade them to bet and they retired, no richer, but certainly the moral victors.

Without a Diploma

Slumming in Flumming brought the Beak face to face with a man who claims he charged the police department \$5 an hour for washing their cars. Behnke was given a choice of \$50 or three days by the judge (speeding home from the Blacker Stag, you know, . . . and it's a good thing the officer didn't kneel down to smell his breath. Excon Behnke has opinions that the food he received was no loss in any way when compared with student house food. Our man, however, managed to get back on the student house diet one day earlier than expected because of his cooperation in a one-man police car cleaning project. His biggest fears were for his disposition.

No Beech

Flamming also had a beach party . . . He was afraid he would get the tired but happy

California Tech

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Offices: Lower Fleming

Chuck Benjamin, Editor-in-Chief

EDITORIAL STAFF

Managing Editor.....Budd LeTourneau

Co-news Editors.....Mike Metherikoff

Sports Editor.....Ray Stanard

Feature Editor.....Nick Nicholson

Copy Editor.....Dale McMillan

News Staff.....Paul Helfrey

Sports Staff.....Pete Mason, Thorne Butler, Jesse Weil, Rodger Baier, Dave Koons, Chuck Sargent, Bob Profet

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Special Writers.....Bob Cobb, Bill Whitney, George Abell, Bob Kurland, Al Lewis, Tom Hamilton, John Rogers

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Business Manager.....Charlie Steese

Circulation Manager.....Dick White

FACTORY ADVISER

Prof. G. R. MacMinn

kind. All very crabby because of his stay. Nice.

One Way . . .

Joyce found his way onto a special list in Blacker last Saturday night. He claimed insomnia as he neatly nipped the cord off the record player.

Or Another

Ernest was enjoying the fruits of an interesting conversation while sitting in a car Friday night with (censored!) Peyton roamed over, and delighted with his new-found partners in loquition, proceeded to stay an hour. But then he got tired. So he got in the car, relaxed, and stayed for two more hours. Ernest was last seen out for Peyton's posterior.

ASCIT Celeb

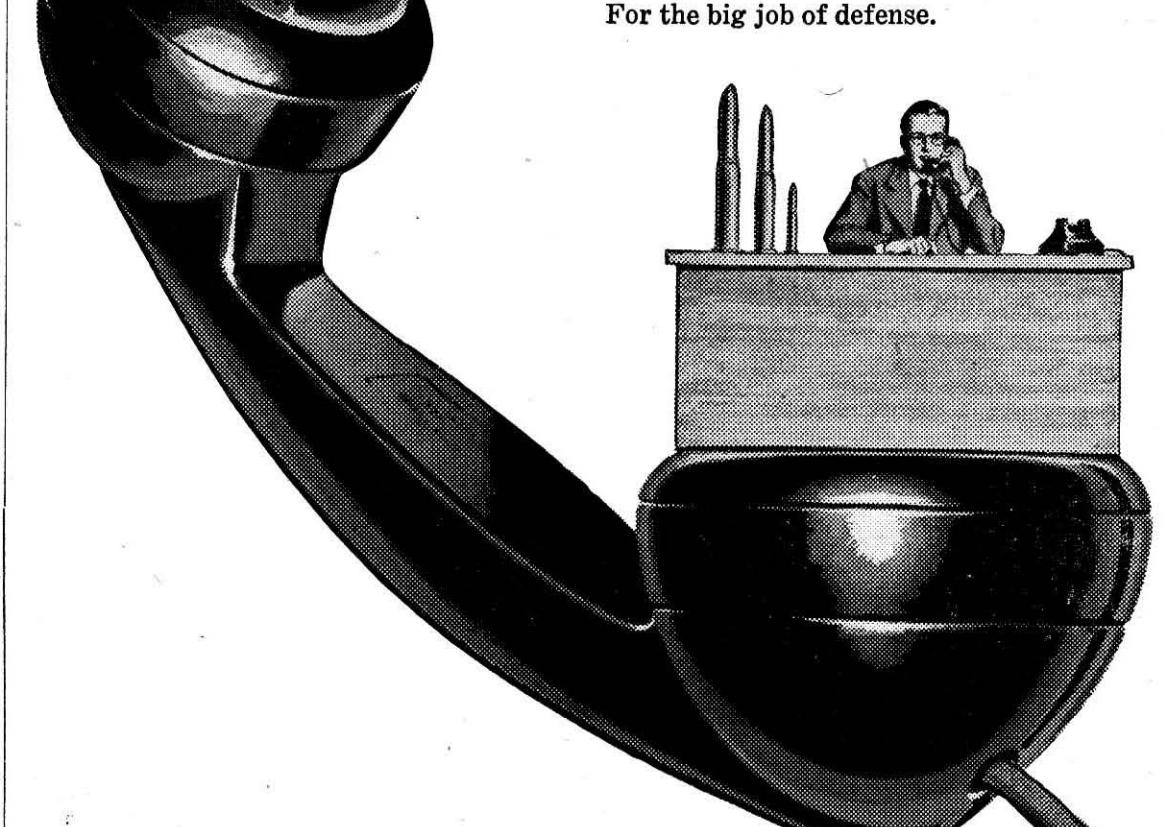
The ASCIT Board of Directors had a little party. The Beak observed Boppert's blood to be a tincture of curpusles. John had a hard time leaving . . . the weather stripping under the door tickled him into fits. Groner was seen touching the stuff.

Drab Social Sked

Ludwig's snake-for-midterms (Continued on Page 4)

The link is strong

The telephone forms an important link
In our program of defense.
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The armed forces and civil defense.
And the link it forms is strong.
Since the end of World War II,
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Have constantly improved.
It's a good thing
The telephone has grown—
It is now better equipped
For the big job of defense.



BELL TELEPHONE SYSTEM

Gridmen Start Spring Practice Next Week

Intra-squad Game Will Climax Practice; Prospects Look Good

Tournament Park will again echo to the calling of signals and the clash of leather as spring football practice gets under way this Monday at 4. First meeting for the gridmen will be held tomorrow, Friday, at 11 in the athletic office building, and Coach Bert LaBrucherie urges all experienced and prospective players to be there.

This looks like the long-awaited year when the Beavers win. With nearly all of last year's lettermen back and some good men up from the frosh, Bert expects

Buttin' In

by Butler

Congratulations to Throop club for finally breaking the Red machine's hold on the IH trophy. By virtue of their 8-0 win over Blacker's football team, Throop clinched the trophy race and brought the coveted cup back to the shelf of the original winners.

What Happened

The swim team's trouncing at the hands of the Oxy Tiger was somewhat surprising to this writer. On paper it looked like only five or so points separated the two clubs; so a 50-25 score was highly unexpected. But an analysis of the results gives good reason for the defeat. That old nemesis, no depth, was undoubtedly the cause, as the Beavers failed to cop many of the second

(Continued on Page 4)



Gray's Pitching Beats Whittier

Caltech's baseball team moved into a tie with Occidental for first place in the conference last Saturday by beating Whittier ten to two. Oxy in the meantime lost to Redlands two to one.

Norm Gray did the pitching for the Beavers and did a beautiful job, allowing six hits and two runs. The team was in there backing him up all the time. This was the first game this season in which the Beavers did not make any errors.

Wins Own Game

Gray was also the big stick, batting in four runs. Two came in the fourth, after Johnson and Neverman singled and Pfeiffer sacrificed them to third, and two in the fifth.

Big Inning

In the big fifth Koons led off with a single. Then, with the aid of hits by Karasawa and Gray, and five Whittier errors, the Tech team scored seven runs. The last run came in the eighth when Stallkamp walked and Koons batted him in with

Throop Cinches Interhouse Cup

Congratulations to Throop club for being the first house to win the coveted IH sports trophy from Fleming's walls since Fleming first snatched it from the Non-Residents back in 1933. The volleyball games haven't been played yet, but Throop is way ahead.

The pertinent poop is as follows: Throop has 123 pts. and Blacker has 109½. If Blacker placed first in volleyball and Throop placed last, Throop would end up with 126 pts. and Blacker 124½. The only way Throop can lose is by not even getting a volleyball team together.

Football Champs

After severely clobbering Throop in football, 21-6, the Rowdies eked out an 18-12 win over Fleming, being behind most of the game.

By turning this game around, the Rowdies won the I-H championship, undefeated, and with only three touchdowns against their career.

Oxy Hosts SCIC Trackfest Saturday

Pomona Ekes Out Narrow Win Over Beaver Trackmen

By Pete Mason

This Saturday afternoon the SCIC wins up its track season with the annual all-conference meet at Oxy. While Oxy is a heavy favorite to take the meet, and even most of the first places, the struggle for second will be hot and heavy.

On the basis of dual meets it figures to be Redlands, Pomona, and Tech, but it is difficult to predict just how it will come out, since competition in each event is much stiffer than in the duals.

Tiger Shift

Oxy's John Barnes will probably take the mile, while distance man Bob McMillan will move down to the half. The two mile should be a good race, what with Oxy's Bill Straw running 9:58 in the Stanford meet, and Redland's Don Creacy running 9:57.6 against Whittier.

Photo Finish

Last Friday Tech hosted Pomona in what turned out to be a race right down to the wire. Final score was 66½-64½, with the balance being tipped by Pomona's Roger French, who took three firsts and a second.

Good Marks

Best mark of the meet was probably Jim Kliegel's 15.8 in the

(Continued on Page 4)

Frosh Sports Roundup

By Chuck Sargent

Tomorrow our frosh thinclads will be out at Pomona with one thought in mind: vengeance on Pomona for the 85½-36½ defeat suffered at their hands (feet?) last Friday. Although they failed to make a clean sweep of any one event, the Sagehens' victory was quite decisive.

Two Firsts

Only two beaverbabes were able to win; Kaiser in the shot,

and Williams in the discuss.

Others scoring for Tech were Munn, 6 pts., Campbell, 5½, and Cramer, 4. Munn placed second in both the 100 and 220, which were won in the slow times of

Poet Courtmen Visit Saturday

Caltech's court inhabitants will meet Whittier for the second time this season on the local courts this Saturday at 1:30 p.m. This should prove to be a good challenge and an exciting match for the Beavers, who were beaten by Whittier last time by only a slight margin, and have promised to change the tide.

Shut-Out

The weather man made last week's practice match with L.A. State indecisive, but he didn't act fast enough to deprive the singles men of a good workout. The week was topped with a most decisive win by Tech over Chapman with a final score of 9-0.

Scott Tournament

John Lamb encourages the men in the Scott Tournament, now in progress, to play their matches as soon as possible. Loser of a match is expected to pay for the balls used.

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Oxy Unleashes Swim Strength

Last Friday the Oxy Tigers proved their willingness by coming out on top in the first of two meets with Caltech, 50-25. In the course of the meet, which was held in the Oxy pool, several of the Tiger splashers were revealed as capable of much faster times than they had previously allowed to become known to the public.

Von Herzen Stars

Top man for the Beavers was von Herzen, who took first in both the 220 and the 100. The win in the furlong was something of an upset. Oxy's Ragan, who was figured to win, took a poor third, while McCoy raced von Herzen right down to the finish line, coming in only a tenth of a second behind.

Ouch!

Lubey had trouble with his new stroke, barely squeezing out

(Continued on Page 4)

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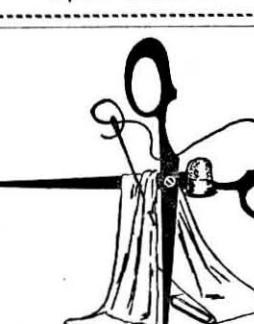
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his ancient benny — but he has modern ideas on testing cigarette

mildness! He's tried every "quickie" cigarette test in

the book — and they're not fooling him one bit! He knows for dang-sure that cigarette mildness can't be determined by a cursory sniff or a single, quickly-dispatched puff. He doesn't have to go back to school to know that

there is one real test — a test that dispels doubt, fixes fact.

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