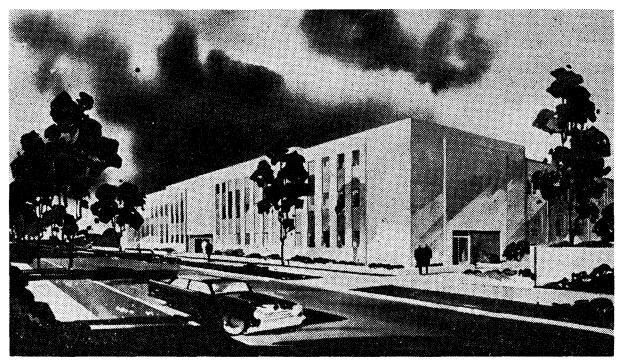
The California Tech

Volume LVII

Pasadena, California, Thursday, January 19, 1956

Number 13

Tech to get new lab by '57



An architect's sketch of the new Eudora Hull Spalding Laboratory of Engineering looking east on San Pasqual Street. Work will start when spring term ends and be completed in 1957.

two weeks ago. By the close of

nominations last Friday, these

thirty-four freshmen had been

President: John Conover, Bob

Vice-president: Wally Baer,

Secretary: Dave Allen, Neal

Treasurer: Frank Childs, Ar-

de Gaston, Dick Montgomery,

nold Goldford, John Kelley,

Tony Leonard, George Loge-

mann, Bob Pailthorpe, Jim Wil-

ta, Dave Meese, Norm Velinty.

Brown, Doug Carmichael, Jim Cribbs, Clint Frasier, Dave

Gilson, Mike Godfrey, Bob Hue-

botter, Dick Long, Bill McClure,

Kirk Polson, Gene Robkin,

Athletic Manager: Brent Ban-

Board of Control: Keith

Frank Cormia, Dave Gardner,

Bob Lange, Russ Pitzer.

Conover, Ingram compete for frosh class presidency

The freshman class will meet today to elect its class officers. Temporary officers were appointed during frosh camp to serve until the class members got to know each other better. The newly elected officers will serve until the end of the school year, re-elections being held in May. Nominations were opened

nominated:

Dave Spencer.

Ingram.

kinson.

Delegates chosen; will take Turkish role at Model UN

Caltech will send ten delegates to the Model United Nations Conference to be held April 4-7 at Corvallis, Oregon. Last Monday the Board of Directors selected ten delegates and two alternates to represent Tech at the conference. Delegates will meet this evening to discuss plans for the trip.

This is Caltech's second year of participation in the program. Last year Techmen carried the banner of the Ukranian SSR; this year they will play the part of Turkey.

Delegates will be absent from Tech for a little less than a week of third term. Costs will be divided between the students and the Institute.

ASCIT slates **Paul Smith for** Winter Formal

The annual ASCIT Winter Formal will be held January 28 at the Altadena Country Club, according to first representative Jon Harford. Harford is in charge of all arrangements for the function. Flowers and tuxedos or dark suits are in order for the affair, which will last from 9:00 p.m. until 1:00 a.m.

Harford has engaged Paul Smith and his six-piece band for the occasion. Many Techmen will recall this group, which has also appeared as part of the Dave Pell octet at the ASCIT Christmas dance.

Paul Smith was the piano player in the well-known Dave Pell Octet before he organized his present band. This versatile group has several albums on the market, including "Liquid Sound."

The location of the Altadena Country Club will be posted on the bulletin boards of the student houses soon. Admission is free to Caltech undergrads and graduate ASCIT members

Spalding-financed structure designated for engineering

Work on the Eudora Hull Spalding Laboratory of Engineering will begin as soon as the spring term ends. The planned building is to occupy the area north of the Chemical Engineering Building where the Hydraulic Model Basin and the Internal Combustion Laboratory now stand. It is to border San Pasqual Street between Throop Hall and the dormitory driveway, and

will have an extrance on the west, taking a small part of the present Dabney garden as its forecourt. Funds for the new lab are to come from the Spalding Trust Fund.

The new structure, which will be 210 feet long and 58 feet wide, will enclose 60,000 square feet of floor space in five stories, three above, two below ground. Building and Grounds expects it to take about three months to tear down the Hydraulic Model Basin and Internal Combustion Engineering Building, and to prepare for the erection of the structure. The building itself should take about 12 months. B&G expects to have the building ready for occupancy in the fall of 1957.

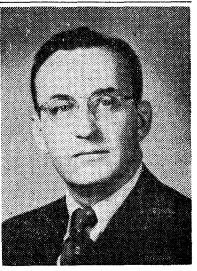
The Spalding Lab will be used by chemical and electrical engineers, the chem engineers taking the west half, the electrical engineers the east. Work in both of these divisions is to be expanded and the equipment they presently have scattered about the campus will be brought to the new building. All of the chem engineering work and equipment in building T-3 will be moved to the new structure, as will the analog computer from the West Bridge Laboratory of Physics and the EE equipment in Kellog Laboratory. A new Datatron Computer has been ordered by the Institute and will be installed in the new lab. The Internal Combustion Engine Lab and the Mechanical Engineering Shop will be moved into the sub-basement of the new structure.

Like the present Engineering Building, the new lab will be built of concrete and stucco plaster, and will be of simple design. It will be larger than the present building (60,000 as compared to 50,000 square feet) and more of its outside wall area will be windows. The building is unique on campus because a

AUFS staffer E. A. Bayne to visit Tech

Mr. E. A. Bayne, the second member of the American Universities Field Staff to visit the Caltech campus, will be here from January 23 to February 1. Mr. Bayne is an economic administrator and Near East expert who joined the AUFS in 1953.

During his stay on the campus, Mr. Bayne will talk to several classes as well as other groups. On Wednesday, January 25, he will talk to the History 5 class on the topic of "Israel-Her Problems and Policies." and at noon he will talk to the



E. A. Bayne

Y Graduate Faculty Luncheon Forum on the same subject.

On Thursday, Mr. Bayne plans to attend the Y Graduate Luncheon Forum and on the following Tuesday he will talk to the Undergraduate Luncheon Club at the training table. The last day of his stay he will again address the History 5 class on the subject, "Some Italian Communists.' Before Mr. Bayne joined the AFUS, he was for many years closely associated with international development progams. After joining, he revisited Iran, then participated in the 1953-54 program of visits to colleges. He has published material in such magazines as "Foreign Affairs," and "The Reporter."

At the conference Caltech students will argue international questions from the Turkish point of view, following Turkish policies particularly in the Near East. Turkey is the leader of the MEATO pact nations and holds a key position in the Near Eastern struggle between East and West.

The Turkish delegation will prepare for the program by occasional meetings before the trip and by talking with Richard Robinson, AUFS representative from Turkey.

The delegates selected by the Board of Directors are Tom Bergeman, delegation chairman; Dick Ashby, Mike Bleicher, Keith Brown, Doug Carmichael. John Lango, Joe Lingerfelt. Vince Taylor, Dick Kirk, and Clarke Rees.

Frank Kofsky and Baird Bran-

Mike Talcott James Tate

(Continued on page 4)

Caltech Management Club provides closer personal contact among supervisory groups

By Sta Richert

One of the important organizations of Caltech, but one which is practically unknown to its students, is the Caltech Management Club. This club is an organization of about 245 employees of Caltech who are engaged in supervisory and management activities; supervisors of campus employees and also from the Jet Propulsion Lab and the Cooperative Wind Tunnel are included in the club. Several professors also belong to the club.

The Management Club was founded in 1948 in response to a need for better pesonal contacts among supervisory personnel. It has also served in an import-

ant social capacity. Before the formation of the club, supervisors in different departments often had no opportunities to meet; often in inter-departmental telephone communications "telephone acquaintances" had been formed, but the parties involved had never seen each other. In the monthly dinner meetings of the club in the Athenaeum, however, these management employees get an excellent opportunity to meet each other and become acquainted.

Also, at each of these monthly meetings some speaker is featured by the club. Some of these speakers are members of the Caltech staff and give talks on the activities in their particula depatments. This helps to give the administrative employees an over-all view of what's going on at Caltech. Others of the monthly speakers are administrative experts who give talks on management subjects that might be useful to the members in their work. In addition to listening to speakers, the members of the Management Club occasionally hold discussions in which they exchange ideas on management problems, and make decisions on the management policy of the institute.

(Continued on page 4)

Interhouse Sing to take place Feb. 13

The Interhouse Sing, planned by the Caltech Glee Club, will take place on Monday, February 13, at 7:45 p.m. in the gym. The contest songs to be sung include the "Alma Mater" and "Rock of My Soul." The music for these numbers will be handed out next Monday for practice.

CALIFORNIA TECH

LITTLE MAN ON CAMPUS

by Dick Bibler



"THIS IS THE MOST IMPORTANT CLASS YOU'LL BE TAKING-SO I'LL EXPECT A LITTLE EXTRA WORK FROM YOU THIS TERM."

A dangerous attitude

The Annual Report of the California Institute amounts to 143 pages this year, of which about 12 deal primarily with undergraduate students. (That ought to be about the right proportion.) The faculty attitude in the matter of student morale is the most important feature by far of these twelve pages.

Right at the beginning, on page 2, Dr. DuBridge comments that the senior class of '55 was one of the most cynical in recent history. "No one can account for this—if it is true," he admits. He then points out that "The seniors had no academic reason for discouragement; 31 percent graduated with honors." Of course, graduating with honors must have been comforting to members of a class of which half the original number had left the Institute—some flunking out, others just not liking it here. But certainly it is disheartening when half your best friends disappear from your college life.

Dean Strong then expands on the question, boasting that his freshman class (now sophomores) showed "widespread resistance ... to the cynicism of a few tired upperclassmen ... This year this cynicism was kept under better control by the upperclassmen, so that the freshmen enjoyed a better climate in which to assert their own natural and positive enthusiasm."

Dean Strong takes a dangerous point of view in that paragraph (which appears on page 48), a point of view which we look upon with dismay. He takes for granted that freshmen will show "natural and positive enthusiasm," and shows no alarm whatsoever if several "tired upperclassmen" become disillusioned and cynical.

This attitude, that upperclass cynicism can be shrugged off as a fault of the students and not of the Institute, is an attitude completely antagonistic to the best interests of student life at Caltech. If the deans and the administration in general really care about the undergraduate student body, it is time that they began to show a genuine concern over this morale problem—a problem which really exists, whether or not Dr. DuBridge is aware of it. It is high time that these people realized that any low morale among the student is to a large degree the fault of Institute policies, and correction of this situation is the vital responsibility of the Institute itself.

California Tech

Campus Brewins

"A date doesn't compare with a good alto sexaphone." Fran Cough Ski (Jack)

* * *

Society, Sex and the Woman

What is more important, a woman or Caltech? This is the vital question that seems to be facing Dave Leeson, who is known to the taller members of the opposite sex as "such a cute little thing." Since meeting this Wild I-----h Rose (who even makes her talents available to members of this department) Dave has been spending more time with her than with his books. How low can one step? He had, however, competition: and if you don't believe it just ask him about a certain ten cent piece. He was so worried about this that he almost went up north over Christmas, but it seems that he got only as far as the station before being convinced that the trip was unnecessary. Presently, being faced with the altar, he welcomes all competition. Last week he stated (under the cover of his usual poker face) that it was all over. But through informed sources the Beak learned that he spent last weekend helping her with her finals. Learn anything, Dave?

No More Indoor Sports

The well known organization, Women Are Evil, has a new member. No women in 1956. That's the New Year's resolution of one Dan Wulff. This department will gladly listen, with greatest understanding, to your tale of woe, Dan. Anyone interested in placing bets on the outcome of this resolution should also contact us.

Two Bittee Lookee Four Bittee Touchee Six Bittee Doee

Disgrace has befallen to the members of the High Church of Ball Pall. Prince Taylor, Ricketts' RLPL, who is infallible on matters pertaining to immorals and corruptions, has scored a 64 on a recent exam. A solution has been suggested by some of the more faithful members. A collection will be taken, the proceeds of which will be used to help Vince lower his score. Rumor has it that those who contribute will be allowed to watch. However, Vince may have something to say about this matter.

Black Paris in the Fifth

The pickings around here are not good enough for a few of us -namely two-B. Brandow (no relation to M. Brando) and K. Brown (no relation, either). The call of the sports car races and two dolls-"well, not quite dolls, but anyway they wore skirts"lured them down south for Saturday. The girls and boys tired of watching cars go round and round so they decided to watch balls go round and dound-at a bowling alley. The upshot of the matter is that Baird was pretty tired when he returned.

What's exhausting about watching?

* * *

Special Note: Kay Sugahara has finally weakened and succumbed to his loneliness. Rumor has it—just rumor, mind you—that he has sent his name into a lonli hearts club.

No Justice Theorem

Hearts are breaking on campus as word leaks out that Tom three-months-in-Alaska-is-a-longtime-Plambeck has hocked his Dabney pin at the bookstore. C'est la vie. (Liberal trans. That's the way the big ball bounces, bounces, bounces!)

BOD BAD fer HOB

Further word about H. Berg's unexplained absence from the (Continued on page 4)

Complex question raised by proposed football bleachers

By Frank Kofsky

Will Caltech ever play home football games in Tournament Park? That question was pondered at the Board of Directors meeting of January 9 when the Board considered a tentative proposal on the part of the alumni to erect grandstands at Caltech's football field. The Board voted, both times by 6-1, to request gratefully that the grandstands be constructed, provided that night games could still be played. On Thursday, January 12, the Beavers met to discuss the prospect, and their collected opinion was essentially the same as the Board's.

The concern over the prospect of losing night games arose because in their proposal the alumni had made no mention of putting in a lighting system, a matter of \$40,000 or more. It was also brought out that Caltech is handily situated in the midst of a residential zone, and that Pasadenans might not relish having their slumber disturbed by a chorus of voices yelling, "Throop Polytechnic Institute, Tee Pee Eye!"

LINDE

FLAME-PLATING

LIQUID ARGON

HELIARC-CUTTING

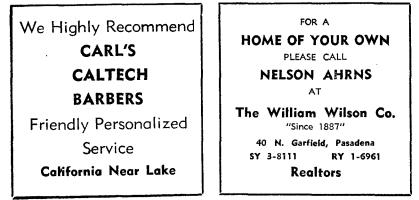
Moreover, football players lost no time in pointing out that, in their opinion, our field is vastly inferior to that of the Rose Bowl.

Although there are several difficulties and disadvantages to be met in the process of attainment, the possession of a field for home games might prove advantageous for several reasons. For instance, the money which the athletic department annually pays for rental of the Rose Bowl would be saved, and there is a possibility that Caltech might be able to bid successfully to hold conference track meets here, thus bringing in some much-needed revenue.

Another advantage which would result from having our own field across the street is that of having the game within walking distance of almost everyone, which would tend to increase attendance at games.

Although the idea of home games in Tournament Park is an interesting one for conjecture, in any case the subject must remain just that until the alumni make their final decision.

Editors-in-ChiefDick Hundley and Marty Tangora News Editor Dick Kirk
News StaffBarry Bass, Jim Coe, Bill Hecht
John Lango, Ed Park, Mike Peters, John Price, Mike Talcott, Jim Wilkinson Feature Editor — Frank Kofsky
Feature Staff
Karl Klutz, Stu Richert, John Lansingh, Al Farley
Sports editor — Dick Van Kirk
Sports StaffBrent Banta
Don Lewis, Bill Davis, Bob Walsh
Don Lewis, Bill Davis, Bob Walsh Photo StaffStu Bowen, Don Nierlich, Dennis Paull, Dave Groce Business Manager — Dan Chilton
Photo StaffStu Bowen, Don Nierlich, Dennis Paull, Dave Groce



STAR SAPPHIRES

JET-PIERCING

SILICONES

MOLECULAR SIEVES

These are just SOME of our products and processes!

Take a few minutes to find out about the career we might have for you in:

RESEARCH - DESIGN - DEVELOPMENT GAS PLANT OPERATION - MANUFACTURING SILICONES PRODUCTION SALES and ENGINEERING SERVICE

CAMPUS INTERVIEWS JAN. 23, 1956

LINDE AIR PRODUCTS COMPANY

a Division of

UNION CARBIDE and CARBON CORPORATION

CALIFORNIA TECH

Douglas

Justice William O. The man of the mountains Douglas at Tech Justice Douglas will voices the liberal view

by Tom Bergeman

After two years of teaching high school, William O. Douglas took his \$75 in savings and hopped the rails for the long ride from Yakima, Washington to Columbia Law School. He supervised a load of sheep to Minnesota, rode with the hoboes to Chicago, and, on their advice, spent all but six cents of his money for legal fare to New York. Thirteen years later this young man was to control and reorganize the New York Stock. Exchange, and three years later, join the nation's highest court.

With this humble beginning, Douglas is by no means an aristocrat. He has always defended the small investor in the stock market, the individual before the courts, and, recently, the Asian peasant before his rulers. He is the leader and the symbol of the recent civil liberties decisions handed down by the present Supreme Court under Warren. He is the liberal voice on the court and one of the country's foremost liberal thinkers.

Few men have had the courage to buck prevailing public opinion as has Douglas. After a tour of Southeast Asia in 1951. he spoke in favor of recognition of Red China, as an attempt to divide Russia and the Mao regime. A prominent and rather pompous Senator denounced the statement: "Absurd, ridiculous . . . I think Douglas ought to stay home instead of roaming all around the world and Asia and making fool statements."

The words got even more heated after the Rosenberg case, when a movement was started in some circles to impeach Douglas. However, it was common knowledge that he was perfectly within his rights in requesting a stay of execution. Douglas asked the court to consider the legality of Judge Kaufman's death sentence, which was given without a specific jury recommendation for such harsh punishment. As Douglas says in his Almanac of Liberty, this case was the first in our history in which a person was put to death for treason without a state of war.

Unlike most justices, Douglas

is also a man of the outdoors, a woodsman and a mountain-climber. In this, too, he has made headlines. When a Washington Post editorial suggested building a highway in place of the wilderness along the historic Chesapeake and Ohio Canal, Douglas challenged the author to an expedition, hoping to show him the wonders of this surviving work of nature. The two, with thirty others, started out on a 178-mile hike. Though the Post writer dropped out from blisters the fourth day, a hardy crew strode into Washington with the Justice after eight days in the woods. Those who stuck with him were given a rare treat -the captivating campfire stories of Justice Douglas.

Mr. Adventure

His years of intense work and his strenuous mountain climbing have given Douglas a tough spirit and an unpolished appearance. Biographers attribute to him "executive vigor, intelligence, simplicity, and considerable charm." Upon meeting this affable, weatherbeaten figure off the bench, a Union Pacific engineer was prompted to comment, "He looks a hell of a lot more like my fireman than a Supreme Court Judge."

He has never lost his spirit of unrestrained adventure. In Persia, he has ridden wildly with the mountain horsemen. In Malaya, he has raced precariously over a highway through a jungle infested with communist rebels. Once in the Himalayas the rear feet of his horse slipped off the trail over a cliff, leaving him suspended in space hun-

Justice Douglas will be on the campus for four days of evening lectures and informal meetings with students and faculty during the first week in February. He is the second guest brought to Caltech under the auspices of the YMCA Leaders of America program. The CALIFORNIA TECH takes this opportunity to introduce him.

-The Editors

dreds of feet above the valley floor. Somehow he got back on the trail. He says, "How we were saved from complete destruction I do not know." His fall from a horse in the western United States broke twenty-three of twenty-four ribs. Except for his indominatable will to recover, it might have been fatal.

William Douglas's life has never been very sheltered. His father, a Presbyterian minister, died when Douglas was six. As a boy in Yakima, Washington, he earned money picking fruit and selling newspapers. As a star debater and valedictorian of his high school class, he won a scholarship to nearby Whitman College, where he became student body president. Incidentally, ever since those days in Yakima, he has been a close friend of Horace Gilbert, Caltech professor of business economics.

After graduation, he taught in a local high school and fought forest fires in the summer. After two years, his savings were still meager, so he abandoned teaching and went to Columbia Law School. The ever-pressing need for money was met partly by writing a correspondence course in law at the same time he himself was learning the subject. He finished second in his class, and headed for work in a Wall Street firm.

Professor Douglas

Two years of business law was enough for Douglas. He returned to Columbua as an assistant professor. After only a year, he quit in protest when the president fired a man without consulting the rest of the faculty. He wasn't jobless for long, however, for Robert M. Hutchins, then at Yale, offered him a professorship in the Yale Law School. Hutchins later called him "the foremost law professor in the country."

With a pledge to reform the New York Stock Exchange and to protect the investor and the employee from mismanagement. Douglas became chairman of the Securities Exchange Commission in 1936. In his first address to the men of High Finance, he advocated "nothing less than a complete remaking of the country's investment business," in the words of **Time** magazine that week. He criticized business for its lack of social responsibility, mismanagement, and maldistribution of economic effort and income. "Academic economists," he said, "see this in cycles, and excuse it from social responsibility. But the cycles and crises thus created are not inescapable."



JUSTICE WILLIAM O. DOUGLAS (Harris and Ewing)

carry out this program in the face of disbelief and opposition. Douglas could do it because he had no extraneous ambitions, no hankering for wealth, honors, or political prestige.

In 1939 Roosevelt appointed Douglas to the Supreme Court in place of the famous liberal jurist Louis Brandeis. As he retired, Brandeis said to Douglas, "I wanted you here in my place." At 42, Douglas was the youngest justice in 128 years.

Many have thought that Roosevelt intended even higher

An Ideal Justice

"A judge should be compounded of the faculties that are demanded of the historian and the phliosopher and the prophet... To pierce the curtain of the future, to give shape and visage to mysteries still in the womb of time, is the gift of imagination. It requires poetic sensibilities with which judges are rarely endowed. . .

"Judges are men, not disembodied spirits. They bring their whole experience, their training, their outlook. their social. intellectual and moral environment with them when they take a seat on the Supreme Bench. . ." -Felix Frankfurter

things for William O. Douglas.

attitudes of many people. In addition, the Court has recently attempted to restore some of the civil liberties lost in the pre-war hysteria. The secret evidence in security hearings and the arbitrary denial of passports have been recently questioned by Douglas and the Court.

Despite the hardships of travel, he has wandered all over Asia in the last decade. "One has to leave the country to see how standardized and intolerant the United States has become," Justice Douglas wrote. He lived two weeks with the Australian aborigines, and visited mountain tribes in the Persian back country. He traveled across the Himalayas with the natives and met the members of the Philippine government in Manila, seeking everywhere the views of the common people. Three easy-reading travelogues describe his experiences and the people he met.

New Deal for Asia

Knowing Asia as he does, he is convinced of the opportunities for American aid and encouragement. While capital and technical assistance are important, the primary need, according to Douglas, is the reorganization of the feudal land-holding systems of Asia to give the common people a new hope for a larger share of the results of their labors. The second fundamental need is for public development programs, like the TVA in this country. "It will be love and affection, not physical force, that will win Asia," he has said. He spent last summer in Russia, a guest of the Geneva smile. In his typically adventurous manner, he not only visited Moscow, but also traveled half way across Siberia to meet peoples of different heritages in the Russian hinterland. He probably has actually talked to as many Russians as any other prominent American official. Appropriately, his first lecture at Caltech will deal with the prevailing attitudes and conditions in modern Russia.





JUSTICE DOUGLAS and Pablito, a Philippine boy in a nursery for the children of captured Huk communists. This picture was taken on Douglas's trip to southeast Asia in 1951. (Bob Sandberg-Look)

In his few years as SEC chairman, he was credited by one magazine with nothing less than converting the New York Stock Exchange from a private club to a public institution. The brokers eventually agreed that stocks were more secure after his reform program. Few men would have had the courage to Both in 1940 and in 1944. FDR proposed him as a vice-presidential candidate, but each year Douglas refused, thus missing the White House by his own decision.

His popular support has always been very large, for unlike many justices, he has not refused to express himself off the bench. In 1948, a number of writers, including Richard Neuberger, present Senator from Oregon, boosted Douglas for the presidency. Recently, however, his bold stands on Red China and civil liberties have removed him from political consideration. As a Justice he is able to speak his convictions in a way few politicians dare: and no doubt he wants to keep it that way.

Since Douglas has joined the Court, he has taken part in a number of important, historical decisions. The famous anti-segregation decree has meant a farreaching change in the lives and

A man of high principles, a man of action, a popular writer, and a mountain adventure**r** make Justice Douglas a rare individual indeed. Our guess is that history will never forget this man.

NEW LAB

.

(Continued from page 1)

small three-inch-square ductwork will be constructed throughout the building, having an opening in every room. This is to make it possible to run small pressure lines and control cables between rooms.

MANAGEMENT CLUB (Continued from page 1)

Short guided tours are also offered by the club, giving its members an opportunity to see interesting institute installations, such as research labs on the campus or at the wind tunnel.

The members of the Manage-

CALIFORNIA TECH

sions.

tech.

The Management Club has

been very successful at Caltech.

It has greatly promoted a bet-

ter understanding of Institute

management problems and has

improved cooperation and sti-

mulated friendship among the

management personnel at Cal-

ment Club are not solely interested in their own problems, but have shown an interest in Caltech students. Each year since the club was formed its members have contributed enough money to make a full tuition scholarship which is awarded to some student through the Dean of AdmisThursday, January 19, 1956

CAMPUS BREWINS

(Continued from page 2) BOD meeting a week ago has disclosed that in the future Howard (the Original "play-thefield" Hog) may have occasion to use that diamond ring he got at the Darb Xmas party—the one that came out of the Wheaties' boxtop.

K.C.M.Anderson

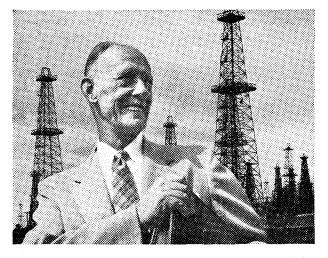
He followed his heart and found his world

You've heard it said that there's more opportunity in America than in any other country?

"It's true. But it's hard to realize how true unless you come here from abroad. As I did, from Scotland.

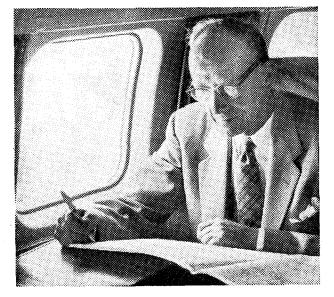
"Now I cherish my homeland. But as in so many of the older countries, your life is pretty well laid out for you at birth. The odds are you'll follow this path whether you want to or not.

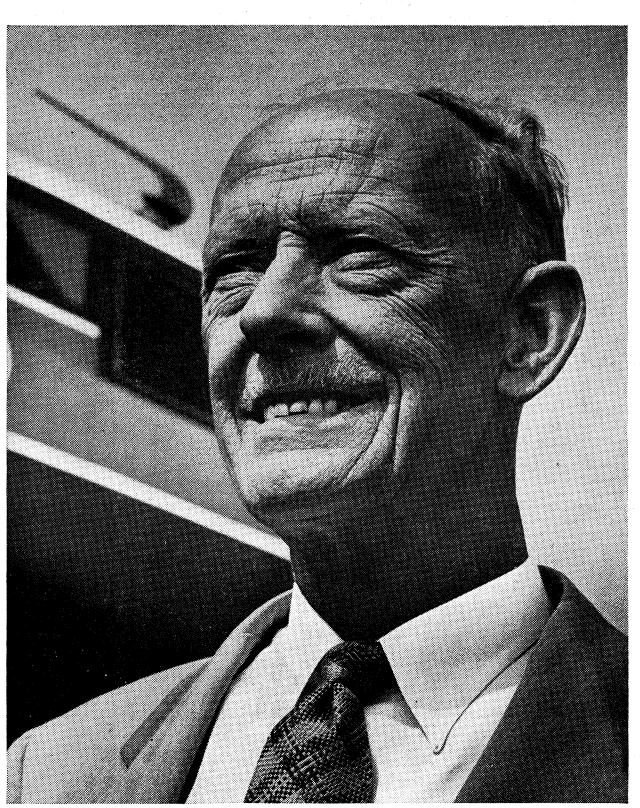
"Well, I didn't like what my future seemed



to be in Scotland, so I quit my job and followed the girl I had fallen in love with to California. I got a job with Union Oil as a clerk in the Field department, and we were married shortly after.

"When I started with the company in 1925 we seldom drilled a well deeper than 4,000 feet. Today it's not uncommon to go down 12,000 feet. Even drill under water!





ANDERSON: "EVERY ONE OF THESE 30 YEARS I'VE BEEN DOING WHAT I WANTED TO DO."

"Better tools have made this possible. And created new opportunities. I'm now an Administrator in the Field department. "But the important point is—every one of these 30 years I've been doing what I wanted to do. Our children have enjoyed the same privilege. Our boy's a graduate engineer, now on active duty as an Ensign in the U.S. Naval Reserve. Our daughter is a college teacher.

"That, I think, is the miracle of America: the chance it gives you to be what you want to be. And to live happier because of it."

* * * *

Anderson is far too modest. His own hard work is obviously the first reason for his success. But tools did help, and in the 30 years since Anderson joined us our investment in tools made available to our employees has increased from \$22,000 to over \$83,000 per employee.

So long as business competes for your favor it will continue to improve its tools. Which is another reason why there should always be more opportunity in America than in any other country in the world.

YOUR COMMENTS ARE INVITED. Write: The President, Union Oil Company, Union Oil Bldg., Los Angeles 17, Calif.

Union Oil Company of California

MANUFACTURERS OF ROYAL TRITON, THE AMAZING PURPLE MOTOR OIL

audience

theatre

JOY RIDE Huntington Hartford Theatre

"Joy Ride," a musical revue presented by Huntington Hartford and Ray Golden, is like Cinderella's coach, one moment a stunning vehicle, the next a pumpkin.

The show starts off somewhat hesitantly, moves through a spotty first act and arrives at a second act that proves to be genuinely entertaining. Although some of the earlier sketches and songs lack polish, they have a liveliness about them that could still make the show a hit. For the most part, though, the numbers seem to be good ideas in need of rewriting.

The show opens with a splashy satire on opening numbers that doesn't quite set a fast enough pace. The evening begins to pick up with "Merry Little Minuet," sung by Will Holt, a light number fairly overflowing with perverse joy over the world's problems. It sounds like something Tom Lehrer might do.

"Group Analysis" is an interesting sketch on mass psychoanalysis that has possibilities although doesn't end, it sputters to a stop. "Story of Alice," a pleasant tune about an unattractive girl, is followed by "Churinga." a lively dance number that uses lighting effects effectively. The first act finale is a colorful, noisy number, "Hey Chicago!"

"Holiday in Court" opens the second act with a flash of color and a pace that is sustained and improved by "Arty" a clever take off on "Marty," and "Ashcan," a rhythm number in the slums. "Gruntled," a strikingly weird presentation, helps keep the pace to the finale, which is a gay number involving the title song, "The Joy Ride."

Although the cast has no big names, it does not lack talent. Joel Grey is a bright young comedian who seemed hampered by a lack of material. Dorothy Greener is one of the bright spots of the evening. She brought to the stage a puckish humor and a personality that the audience feels whenever she appears.

"Joy Ride" is set for an unlimited run. The theatre is located on Vine between Sunset and Hollywood Boulevards; curtain time is 8:30 each evening. Weekend tickets are priced from \$2.20 to \$4.95 and can be purchased up to curtain; however for a better selection, tickets should be purchased at least a day in advance.

-Dick Kirk

JENNY KISSED ME, starring Rudy Vallee is a very enjoyable

stooges, singing chorus, new sketches, new gags, new acts. Music Box Theatre, Hollywood Blvd at La Brea. Tues thru Thurs 8:30. \$2.20-\$3.85; Fri eve 8:30. \$2.75-\$4.40; 2 perf Sat 7:30 & 10. \$2.75-\$4.40; 2 perf Sun 2 & 5:30. \$2.20-\$3.85.

-John Lansingh music

Eduard Van Beinum, the famed conductor of the Amsterdam Concertgebouw Orchestra, led the Los Angeles Philharmonic to one of its biggest successes of the season last Thursday in Philharmonic Auditorium. The orchestra displayed a clarity and brilliance matched only in recent times by its performance under Georg Solti last month.

Van Beinum, whose conducting does not possess the physical exhuberance of Solti's nevertheless effectively commanded the orchestra. Breaking the tradition of running off stage after each number, Mr. Van Beinum simply drew up a chair and sat with the orchestra members during the short breaks.

On the first half of the concert was Weber's Overture to "Der Freischutz," Haydn's Symphony No. 96, and "Symphonic Etude" by Hendrik Andriessen, one of the conductor's fellow countrymen. Debussy's "Prelude to the Afternoon of a Faun" and "La Mer" comprised the second half of the program and the difficult works were handled brilliantly by the orchestra.

Mr. Van Beinum again conducted the orchestra in the Pasadena Civic Auditorium last night; for those who missed him, he will conduct tonight and tomorrow afternoon in Los Angeles. The program will consist of Rossini's Overture to "La Scala di Seta," Beethoven's Piano Concerto No. 1 featuring Maria Tipo, and the Symphony No. 1 by Brahms.

Tonight's concert begins at 8:30 p.m.; the one tomorrow starts at 2:15 p.m. Tickets are from \$1.00 to \$3.75.

JAZZ A LA CARTE with Ella Fitzgerald, Dave Brubeck Quartet, George Shearing Quintet, the Les Brown band and Shorty Rogers' Giants. Shrine Aud. Sat Jan 21 8:15. \$2.-\$4.50. BALLET ESPANOL with Teresa & Luisillo. Fri, Sat & Mon eves, Jan 20, 21, 23. 8:30. Philharmonic Aud. \$1.50-\$3.50. BOSTON POPS ORCH. conducted by Arthur Fiedler will be at the Pasa. Civic Aud. Tues, Jan 31, 8:30. Also at the Shrine Aud.

Sat, Feb 4, 8:30. \$1.65-\$3.30. COMING UP. Isaac Stern plays with the LA Philharmonic Jan 26 & 27. Philharmonic Aud. Andres Segovia recital Feb 4 at Wilshire Ebell Theater. Mozart 200th Birthday Concert by LA Chamber Sym Orch, Rovce Hall, UCLA, Jan 27. Ballet Russe will be in the LA area the middle of Feb.

Robert Lindner book. James Dean is reason enough to see this wildly improbable farrago about juvenile delinquency. THE ROSE TATTOO. A great picture which brilliantly intertwines comedy & tragedy. Volcanic performance by Anna Magnani. Burt Lancaster is the picture's only weak spot.

GUYS & DOLLS. Everybody has different ideas about the ranking of the performances of Marlon Brando, Jean Simmons, Frank Sinatra & Vivian Blaine, but everybody agrees that it's a fine show.

THE SHEEP HAS FIVE LEGS. Fernandel, & Fernandel, & Fernandel and more Fernandel, & not a bit too much either in this warm and wonderful comedy.

-John Lansingh

Langmuir talks on accelerators

Dr. Robert V. Langmuir, associate professor of electrical engineering, will deliver this week's Friday Evening Demonstration Lecture at Caltech. The lecture will be given at 7:30 in 201 Bridge on "Accelerators for Nuclear Physics." It will deal in part with the Caltech Synchrotron, a high energy electron accelerator.

Dr. Langmuir is a graduate of Harvard University and received his Ph.D. from Caltech in 1943. During the war he was engaged in radar work at the Research Laboratory of the General Electric Company and from 1946 to 1948 he worked on high energy accelerators there. Since his return to Caltech in 1948, he has worked on the construction and operation of the synchrotron.

Social events are scheduled for weekend

The first weekend of second term social events will see all four houses having activities. Blacker will hold an exchange with Glendale J.C. Friday night and Saturday they will have an Arty Party, an original event at Tech. Here participants will be supplied with materials to make such things as mobiles, pictures, clay figures, etc.

Dabney along with Fleming will attend the Pasadena Playhouse Friday evening, to see the play, "Jenny Kissed Me." Dabney will have one of its famous party-parties Saturday night at the home of Ray Orbach. The party will be preceded by iceskating.

Ricketts is having an overnight snow party this weekend which will last from Saturday through Sunday. The party will be held at Howard Marshall's at Lake Arrowhead. Dr. and Mrs. James C. Davies and daughter will chaperone. Incidentally, the Davies' daughter is seven years old.

Service League enlarges wardrobe

The Caltech Service League has donated a supply of shirts, sweaters and other articles of clothing to Caltech. This clothing is in good condition and may be obtained for the asking.

For formal dances and other dressy occasions tuxedos and accessories may be borrowed from the service league. Mrs. Hale in the student house office or Donna Newcomb in the Y office have keys to the wardrobe in T-2.

Cool Corner

By Frank Kofsky

(Note: All of the records reviewed, unless specifically stated to the contrary, are 12" high fidelity LP's.)

Lennie Niehaus Volume 4: The Quinteta with Strings, Contemporary C-3510, fea-turing: Lennie Niehaus, alto; Bill Perkins, tenor; Bob Gordon, baritone; Stu William-son, trumpet and valve trombone; Hamp-ton Hawes, piano; Montry Budwig, bass; Shelly Manne, drums; and strings.

Existing superlatives are insufficient to describe the brilliancy of the newest Lennie Niehaus album, although we'll attempt it nonetheless. Niehaus, a vibrant and silky-toned altoist with the Stan Kenton aggregation, has outdone himself in composing and arranging several vehicles in which he also stars. The nucleus of Niehaus, Budwig and Manne (alto, bass and drums) appear throughout, supported alternately by: a string quartet composed of three violas and a cello; the string quartet plus Perkins (tenor), a 1945 Caltech graduate, and Gordon (baritone); piano and trumpet or valve trombone.

The Chet Baker Quartet: Jazz at Ann Arbor, Pacific PJ-1203, featuring: Chet Baker, trumpet; Russ, Freeman, piano; Carson Smith, bass; Bob Neel, drums.

In an attempt to diversify the classically slanted music curriculum at the University of Michigan at Ann Arbor, Chet Baker and his Quartet were imported to play a concert, and the recordings made there subsequently released. Although a little nervous at first, Chet soon settled down to perform in his usual compelling style. Listen for some swinging solos from pianist Russ Freeman.

Lighthouse at Laguna, Contemporary C-3509, featuring: the Lighthouse All-stars (Bud Shank, alto and flute; Bob Cooper, tenor; Frank Roselino, trombone; Claude Williamson, piano; Howard Rum-sey, bass; Stan Levey, drums), Barney Kessel, guitar; the Hampton Hawes Trio (Hampton Hawes, piano; Red Mitchell, bass; Shelly Manne, drums). Another concert recording Another concert recording.

this one made at an annual af-(Continued on page 8)

What you should know about International **Business Machines**

International Business Machines Corporation is one of America's leading engineering, manufacturing and selling organizations, serving business. industry, government, science and education.

You'll be joining a company with a 42-year record of growth, stable employment, and one of the lowest employee turnover records in the country.



Pasadena Playhouse, comedy. 39 S. El Molino, Pasa, Eves Sun thru Thurs 8:30. 90c-\$2.40; Fri & Sat eves 8:30, \$1,20-\$2,40; Sat matinee 2:30. 90c-\$1.80.

FESTIVAL. Comedy by Sam & Bella Spewack. Players' Ring Theatre, 8351 Santa Monica Blvd, Hollywood. Tues, Wed, Thurs, Fri & Sun eves 8:30. \$1.65-\$3.30; 2 perf Sat eve 8 & 10:45. \$2.20-\$3.30.

HELLZAPOPPIN OF '56. Olsen & Johnson, Glamorous girls,

Caltech Pharmacy PRESCRIPTIONS **Dependable Registered Pharmacists** FOUNTAIN BREAKFAST, LUNCH, DINNER 882 East California Street SYcamore 2-2101 Pasadena 1, California

-Al Farley

movies

THE DESPERATE HOURS. Melodrama with a "this is for real" tension about it. Top performances by Humphrey Bogart & Fredric March.

REBEL WITHOUT A CAUSE. They only used the title of the

Your Nearest Laundry SUDS-KISSED

Authorized Westinghouse Laundromat Near corner of Lake and California

Dry Cleaning-Finished Laundry Free Parking-S&H Green Stamps 24-Hour Laundry Drop

922 E. California St. SY. 2-2300

Your future will be as big as you make it, with advancement entirely on merit.

Excellent salary and employee benefit program with life-long advantages for you and your family.

Complete initial training in each of the employment classifications listed.



FOR MID-YEAR GRADUATES ONLY

(DATE)

If your degree or major is :	Sign interview schedule for:
Liberal Arts • Business Accounting • Engineering Mathematics	Sales
Physics • Mathematics Engineering	Applied Science
Physics • Mechanical Electrical Engineering Physics • • • • • • • • •	••••• Engineering Research and Development

CALL YOUR COLLEGE PLACEMENT OFFICE FOR APPOINTMENT, TODAY!

If you cannot attend interviews, write for more information to Byron N. Luther International Business Machines Corporation 590 Madison Ave., New York 22, N. Y.

Sales and Service Offices in Principal Cities throughout the U.S.

The Sports Corner

by Dick Van Kirk

I don't know whose idea it was, but it certainly was a poor one, no matter which angle you look at it from. I am speaking, of course, of the penny-pitching incidents which occurred during last week's games against Oxy and Westmont. To say that I dislike such outbursts would probably not have much effect on the persons who, like little sheep, decided to follow the example of some bright lad who himself in turn was only trying to emulate the fans at Berkeley who had managed to have one of their games shortened by more than three minutes. Maybe our loyal Caltech students were merely trying to relieve the basketball team of a few minutes of pressure, or maybe they just had to get rid of their pennies because they dislike anything that has the word copper connected with it. Anyway, they did manage to push our reputation a little farther downward on the ladder of disrepute. All I have to add is that if these people want to make an ostentatious display of disposing of their money, they should devise a scheme whereby their efforts could be rewarded with a little non-critical publicity.

If anyone went to the Oxy game to watch the action which occured on the playing floor, they were rewarded by seeing a hustling Caltech team finally come alive in the rebounding department. In the final analysis, it was the Beavers' more effective rebounding which kept them in the game till the end. Much of the credit must go to Glenn Converse, whose recent improvement in all-around play bodes ill for future opponents. Phil Conley played his best game of the year against the Tigers, and Jim Workman, junior guard, came off the bench to spark a last minute rally for the Beavers with three quick baskets.

Baseball gets underway soon at Tech and our head coach Ed Preisler has asked me to announce that there will be a meeting of prospective players next Thursday at 11:00 a.m. in the lecture room of the gymnasium. Prospects for the coming season don't look too good at first glance, but Preisler is hoping to build a strong team around Ray Weymann, Tech's all-conference pitcher, and Chuck Norman, who made the all-league team 'way back when. Ed Berry, second team all-conference last season, will also be an asset.

*

Athletic director Hal Musselman showed me a publicity release by a Pacific Coast Conference fan (I think) in which he proposes to let the coaches of all the schools in the PCC submit to the analog computer here at Tech an unbiased estimate of his team's strong points and weaknesses, and then (he says) the computer can determine which school is going to win the conference title and represent the PCC in the Rose Bowl. With this knowledge the players from all the other schools in the conference can transfer to the school picked by the computer and strengthen it even more, making victory in the Rose Bowl a virtual cinch. I can't see why someone at Caltech hasn't thought of a way to get that little ol' computer to help us win some games.

Paz Naz next; Chapman and **Diablos follow**

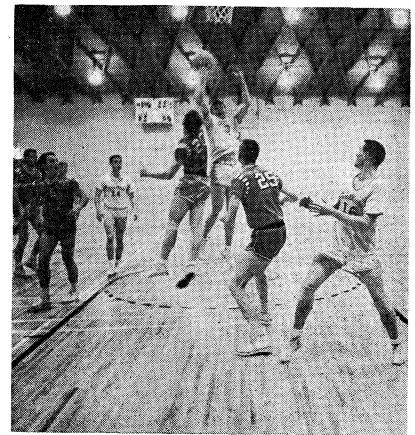
Three non-conference games are on tap for the Caltech basketball forces this week as the Beavers travel to Pasadena Nazarene and Chapman for weekend games and host Los Angeles State Tuesday.

Guard Sonny Nelson's knee is still an unknown factor—he saw some action against Pomona, but not very much. Coach Carl Shy's two-platoon offense is beginning to look effective, however, and may prove to be the difference as the Beavers try to improve their disastrous win-loss record.

A recent schedule change has shifted tomorrow's game at Pasadena Nazarene to an afternoon contest, to start at 4 p.m. Although they lost to Occidental last week, 77-67, the Crusaders usually field one of the strongest teams among the Southern California small colleges. The man to watch for the Nazarenes is Jim Bond, their agile 6'5" center. His presence alone is enough to make the Pasadenans a dangerous threat to any opponent.

Having lost to Chapman College 59-36 two weeks ago in Pasadena in their most poorlyplayed game of the season, the Beavers hope to make it an entirely different story for Saturday night's game at Orange. Center Phil Conley will be especially intersted in erasing the memory of the meager two points he scored in the first Chapman game. The freshman teams are scheduled for a preliminary game at 6:15 p.m.

Tuesday's game with the Diablos of Los Angeles State is set for 4:15 p.m.



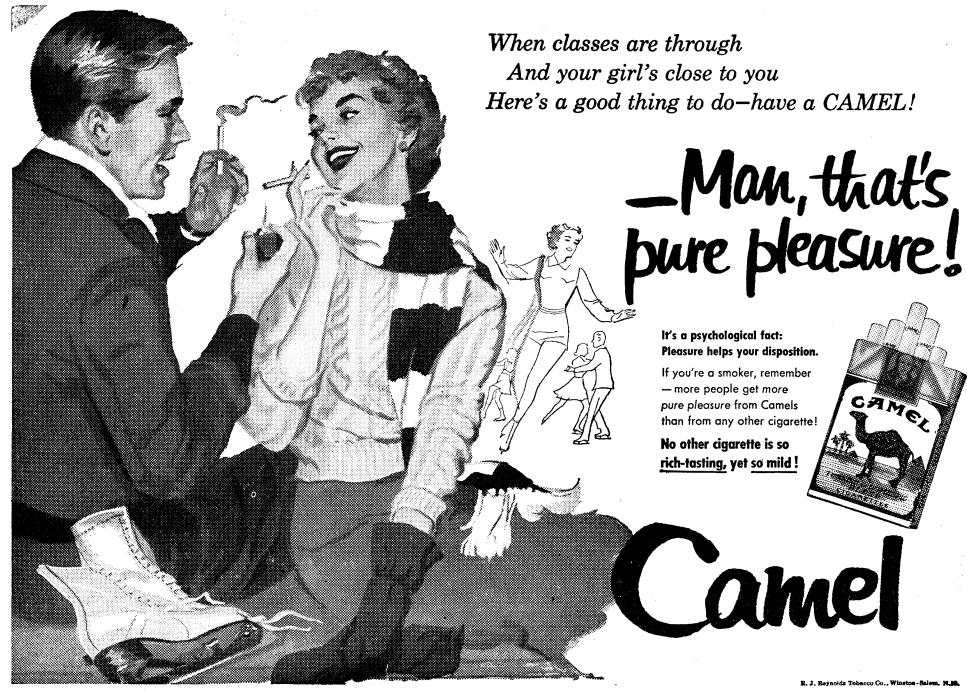
Glenn Converse outjumps Bill Gregory of Oxy to score against the Tigers. (Big T staff photo by John Robinson.)

Occidental drops Tech in low-scoring thriller

Caltech's varsity basketball team turned in its best performance of the season against the classy Occidental Tigers, but the Beavers couldn't maintain the pace in the closing minutes and dropped a 60-45 verdict Friday at the Scott Brown gymnasium.

Coach Carl Shy's Beavers controlled the rebounds for the major part of the game, and managed to keep within five points of the Bengals until the final five minutes of the game, when the Oxy fast break began to work more effectively

Easily the standout player for Tech was Phil Conley, who was the game's high scorer with 17 points. Conley also led the Beavers in the rebounding department, gathering 14, and held Dick Sovde, Oxy's 6'7" cener, to 10 points. Sophomore forward Glenn Converse grabbed off 10 rebounds and turned in an excellent floor game. Rolland Moody, senior guard, kept Tech in the game in the first half with several timely field goals, totalling eight points for the game.



CALIFORNIA TECH

Sagehens dump Caltech, 74-45

Coach Carl Shy's varsity basketballers ran into a red-hot Pomona-Claremont team Tuesday and succumbed to the Sagehens' point-making attack, losing 74-45 in the victors' gymnasium. The Beavers, having one of their coldest nights of the season, were unable to work the ball effectively on offense, and were constantly being screened off on defense, giving the Sagehens clear shots at the basket. The men from P-C took full advantage of every opportunity, hitting shots from prac-

tically every spot on the floor.

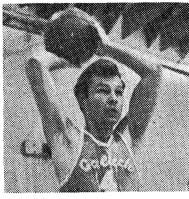
Tech jumped to an early 2-0 lead with forward Glenn Converse scoring the game's first basket, but the Sagehens came right back with seven quick points of their own, and that was the closest the Beavers came the rest of the night. Pomona led 20-7 at the end of the first ten minutes of play, and the Sagehens maintained their margin of thirteen points the rest of the first half, leading 40-27 at halftime.

Pomona - Claremont's scoring pace eased up in the second half. with only 34 points being racked up for the Sagehens, but their defenses also tightened up to limit the Beavers to only 18 points in the second stanza. Caltech passes found their way into enemy hands time and again, and Pomona capitalized on every opportunity to score quickly before the Beavers had a chance to get their defenses organized.

Center Phil Conley of Caltech was the game's high scorer, with nineteen points, while Glenn Converse and Jim Welsh each hit for nine points. Pomona-Claremont's big center, Dick Bergstresser, led the well-balanced Sagehen attack with seventeen points, while the trio of Ron Zumbrun, Gary Biszantz, and John Nichols scored fourteen points each.

In the preliminary game the Caltech frosh kept their conference record clean by losing 89-44 to the Sagechicks.

During the halftime intermission Bob Fendler of Pomona College gave an exhibition of indoor high jumping in which he cleared the bar at 6'6" and barely missed at 6'8" and 6'10". Meet the Varsity



Rolland Moody

Adding offensive punch to Coach Carl Shy's varsity basketball team is Rolland Moody, senior guard. One of the deadliest shots on the team, Moody is in his fourth year of varsity ball, having made the team as a frosh in the 1951-52 season.

Rolland, a mechanical engineering student, is celebrating his third year of married life, and is the proud father of two children. At twenty-three years of age, he is the oldest man on the squad and lends a steadying influence to the younger, less experienced members of the squad.

Moody, whose 5'9" of height makes him one of the smallest men on the court, whenever he enters a game, resides in Alhambra with his wife and children.

BARBER SHOP In Old Dorm Where Everyone is Welcome Paul A. Harmon

Frosh Sports Roundup

by Brent Banta

The Junior Beavers had another tough weekend last week, dropping one to Oxy, 87-44, and second game to Westmont, 52-40. Again, a failure to grab the rebounds cost Tech a chance to make a good showing in both games.

Ralston for Oxy dropped in 21 during the first half of that contest to help the Tigers gain a 37-23 halftime lead, a lead that the Beavers were never able to whittle down. As in the earlier games of the season, Fred Newman led the way in scoring, this time with 15.

On Saturday, Tech put up a better show, with a particularly strong second half. Behind 25-11 at the half, the Beavers came back to outscore Westmont 29-26 during the final period. At several points the Westmont lead was cut to but 5 points, only to be built up again through our throwing away of the ball.

Rebounding was tremendously impoved over earlier games, with several follows after each shot. The heads-up play of Larry Kraus and Bill McClure was instrumental in controlling the backboard; with a little more accuracy on the close-in

shots, the Beavers will turn into a pretty sound ball club.

The Westmont game vividly pointed up the need for hustle on the Tech team; the responsibility can't all be placed on height. In this department, Jim Cribbs and Dave Meese will play big parts. Just and Newman led the scoring again with 15 and 12 points apiece, but it's going to take a similar effort on the part of the whole team if the Junior Beavers are to break into the win column.

The Frosh take on the Nazarenes at 4:30 this Friday in the Tech gym, and Chapman at 6:30 on Saturday in the opponents' territory.

Rowdies win back Discobolus, 21-6

Ricketts House won the Discobolus Trophy for the first time in over a year with a 21-6 victory over Blacker in touch football Tuesday afternoon.

Center John Price scored two Ricketts touchdowns on passes from Ron Wann and Jim Mebust, and Wann scored the third one on a short run. Blacker's sole tally came on a long pass from John Parks to John Kelly in the last quarter.

Beavers fade in second half

Caltech's basketballers held Westmont College to a 25-25 halftime score here Saturday night, but the Santa Barbara boys exploded for 44 points in the second half to sink the Beavers, 69-49.

Center Dan Heinrichs led the second-half rush for Westmont with 23 points, compared with his five in the first half. His 18point increase was almost all of the difference in the disastrous last period. Held down by Tech center Phil Conley on under-thebasket shots, he began to shoot from a greater variety of positions in the later minutes and could not be stopped.

Conley was high scorer for the Beavers with 13 points. Howie Bloomberg hit for nine from his forward position, and guard Rolland Moody and forward Glenn Converse each scored six.

Guard Jim Welsh's outstanding floor play sparked the Beaver game, particularly in the first half. His ball-hawking and hustling helped keep the visitors off balance. Notable also was guard Dick Van Kirk's drive and pass which led to several Tech scores.

A frank message to graduating electronic 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.

> 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 with and encouraged by a team of eminent scientists and engineers with many "firsts" to their credit in the field of electronics. Here you will be heard . . . not just one of the herd.

CAMPUS

and Holding, as of June 1956, B.S., M.S., Professional or Ph.D. Degrees in the Following Fields

A TOUR OF THE

Jet Propulsion Laboratory

and a Complimentary Dinner

Will Be Given to Caltech Students

Considering Full Time Employment

at JPL

AERONAUTICAL, ELECTRICAL, MECHANICAL AND CHEMICAL ENGINEERING - PHYSICS MATHEMATICS & CHEMISTRY

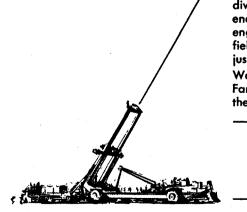
Monday, Jan. 23, '56-5 P.M.

Please Contact

Dr. D. S. Clark, Director Placement, Room 120, Throop

for application and reservation

NOT LATER THAN FRIDAY, JAN. 20, 1956



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

ON CAMPUS INTERVIEWS:

FEBRUARY 3

MISSILES • RADAR • ANTENNAS • MICROWAVES • INFRARED • SOLID STATE • TEST EQUIPMENT • INDUSTRIAL T. V.



FARNSWORTH ELECTRONICS CO., FORT WAYNE, INDIANA

COOL CORNER

(Continued from page 5) fair in Laguna's natural outdoor ampitheatre, and one of the smoothest we've heard. All in all, the jazzmen at the concert represent the very cream of the West Coast crop, and the record helps to demonstrate this fact. Contemporary Concepts: Stan Kenton,

Capitol T666, featuring the Stan Kenton Orchestra.

High-octave brass coupled with discordant chords, longtime Stan Kenton trademarks, are held to a moderate minimum here, and the arrangements of Bill Holman are styled to display the talents of some of the up-and-coming young

jazzmen. Several Kenton sidemen step out to the fore to blow vigorous solos, the most notable of whom are: Lenny Niehaus and Charlie Mariano, altos; Bill Perkins, a Tech alumni, and Dave Van Kriedt, tenors; Don Davidson, baritone; Stu Williamson and Sam Noto, trumpets; Kent Larsen, trombone; Mel Lewis, drums.

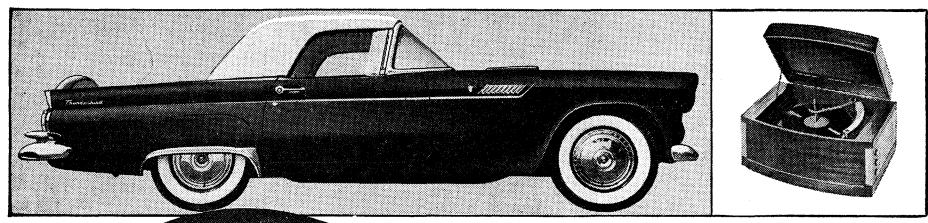
To Swing or Not To Swing: Barney Kessel, Vol. 3, Contemporary C3513 fea-turing: Barney Kessel, guitar; Harry Edi-son, trumpet; Georgie Auld or Bill Per-kins, tenor; Jimmy Rowles, piano; Al Hendrickson, rhythm guitar; Red Mitchell, bass; Shelly Manne or Irv Cottler, drums.

For the most part, the question posed in the title is answered in the affirmative. But, as the album notes validly point out, whether or not something swings is largely a matter of personal taste. At the risk of being called dogmatic, I do not think that the presence of Harry Edison on trumpet, although he is a jazz great, helps the album achieve its purposes.

HURRY! HURRY! HURRY! CONTEST CLOSES JAN. 315 \$50,000 IN PRIZES I Hord I hundernings

PLUS 40 COLUMBIA Hi-Fi Phonographs

FOR THE 50 COLLEGE STUDENTS WHO WRITE THE BEST NAMES FOR VICEROY'S PURE, WHITE, NATURAL FILTER!

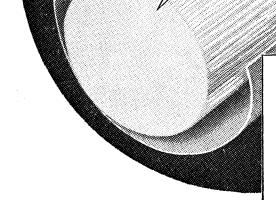


10 Winners! 10 Thunderbirds! Win a fully equipped new '56 Thunderbird! In your choice of colors! Automatic transmission, two tops, power steering, radio, white side walls. Act now and win!

40 Winners! 40 Columbia Hi-Fi Sets! Own America's most exciting Hi-Fidelity Phonograph—the Columbia "360"K—in beautiful Mahogany!

Plus 10 RCA Victor Color TV Sets to the college organizations designated by the 10 Thunderbird winners)

NO OTHER FILTER LIKE VICEROY! No cotton! No paper! No asbestos! No charcoal! No foreign substance of any kind! Made from Pure Cellulose-Soft...Snow-white...Natural!



JUST NAME THIS

JUSI AMAZING ME THIS THAT'S ALL FILTERI DO TO WINU

HINTS TO HELP YOU WIN!

20,000 FILTER TRAPS

TWICE AS MANY AS THE TWICE AS MANY AS THE NEXT TWO LARGEST-SELLING NEXT BRANDS - FOR THAT FILTER BRANDS - FOR TASTE! REAL TOBACCO TASTE!

You'll think of dozens of names when you read these facts: The Viceroy Filter is the most modern in the world today! Perfected through 20 years of research!

It contains no cotton, no paper, no charcoal, no asbestos, no foreign substance of any kind! Instead, it is made from pure cellulose—a soft, snow-white, natural material found in many good foods you eat.

Only the Viceroy Filter has 20,000 filter trapstwice as many filter traps as the next two largest-selling filter brands! No wonder Viceroy gives you that Real Tobacco Taste!

Name this amazing filter and win! It's easy!

It's easy to name this amazing Viceroy Filter when you know what it's made of . . . why it's superior . . . why Viceroys give you that real tobacco taste you miss in every other filter brand!

Remember, the Viceroy Filter is made from 100% pure cellulose-a soft. natural material found in many good foods you eat! There are no impurities in the Viceroy Filter. So naturally it lets the real tobacco taste come through!

Name the Viceroy Filter! Enter this \$50,000 contest, today!

JUST FOLLOW THESE EASY RULES!

- On any plain paper, write the name you think most suitable for the pure, white Viceroy Filter described on this page. It's easy! You can think of dozens of names like "Super-Pure," "Filtron," "Naturale," "Flavor Flow," "Cellutrate," "Twice-The-Traps." 1 You can use one, two or three words. Any name may win!
- Mail your entry to Viceroy Thunderbird Contest, P. O. Box 6A, Mount Vernon 10, New York. Write plainly or print your name, the name of your college and your mailing address at college! Submit as many entries as you wish—but with each entry include the picture of the Viceroy Filter Tip torn or cut from the backs
- of two (2) Viceroy packages.

- **3** Contest open to all students attending colleges and universities in the U.S.A.
- Contest closes midnight, January 31, 1956. Entries judged by The 4 Reuben H. Donnelley Corporation on the basis of aptness of thought, originality and interest.
- Prizes listed elsewhere in this ad. Winners of the ten Thunderbirds 5 Will also be permitted to designate the school organizations to which Brown & Williamson Tobacco Corporation will award RCA Victor Color TV Sets! Write the name of the organization you want to receive this award on your entry.

