

Conley wins ASCIT election

ICC Dance next weekend; Occidental to be host school

Billy May and his orchestra will headline the entertainment at the Inter-Collegiate Council Dance, Friday, March 4, at the Pasadena Civic Auditorium. Occidental College is host this year with Caltech handling the decorations and Redlands the finances. The dance will run from 9 to 12:30.

Intermission entertainment will be provided by four of the colleges in the council. Caltech is represented by a quartet from the Glee Club. Those participating include first tenor,

Fineman and Brooks will speak at Tech

Two famous writers will appear at Tech Monday, when Mr. Irving Fineman, well-known novelist, speaks on "The Relationship of Science and Art in the Modern World," in an appearance with Van Wyck Brooks, noted critic and historian of literature.

The address will be given in 206 Dabney at 7:30 p.m. next Monday, February 28.

Fineman, lecturing with the Huntington-Hartford Foundation, is speaking under the sponsorship of **Pendulum**, while Brooks will participate with the audience in a discussion of Fineman's topic.

Fineman represents an unusual combination of literary and technical background. A graduate of M. I. T., he devoted the first part of his life to civil engineering. His first novel, published in 1930, won the Longmans, Green \$7500 prize. Since then he has published five highly praised novels—two of them on Biblical themes, one about research workers—as well as poems, essays, and reviews.

Van Wyck Brooks has written five distinguished books on the history of literature in America, including **The Writer in America**, a study of contemporary literature. As a literary critic, he has written reviews which have been widely published in magazines and newspapers.

Air Force and eager freshmen combine to keep the amateur radio fanatics happy

by Guglielmo Marconi
CQ CQ CQ CQ! Two new developments on campus in the past few weeks have opened up opportunity for Techmen interested in amateur radio to really get their big chance.

The first of these developments is a recent move by the Caltech Air Force ROTC unit, which has opened the membership ranks of radio station K6-FCS to qualified Tech cadets and other interested students. The other is the materialization, after fifteen years of half-existence, of the Caltech Radio Club.

Station K6-FCS is part of MARS, the Military Affiliated Radio System. Operating on civilian short wave frequencies as

Rube Moulton, second tenor, Howard Berg, baritone, Harry Griffith, and bass, Ted Johnson.

First Representative Bob Kausen enthusiastically pointed out the fact that the ICC Dance is one of the largest and best attended of the functions on the social calendar. It is a good chance to dance to a big name orchestra in very pleasant surroundings.

Each year one of the eight colleges in the council has a chance to host this affair with students from all eight attending. Last year Caltech was host, with Jerry Gray and his orchestra providing the music. It, too, was at the Pasadena Civic Auditorium.

Dress for the occasion will be suits for the men and party dresses for the women. It is requested that there be no flowers.

Price of the tickets will be \$2 per couple. Tickets will go on sale at the end of this week. Those interested may get them from BOD members and house social chairmen. Expectations are for a contingent in excess of 200 couples to represent Caltech.

Calling guides for spring vacation

The News Bureau needs ten to fifteen students who will be at or near Tech during spring vacation, to conduct a tour of the campus.

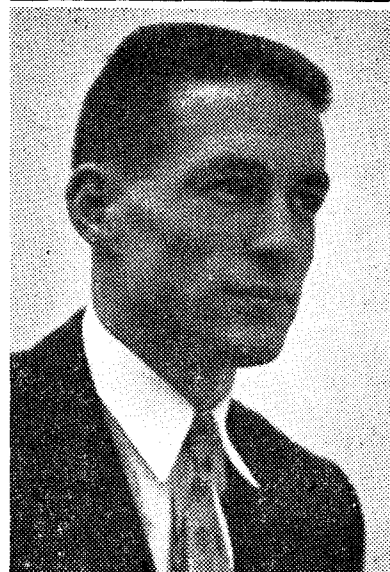
Some 300 members of the Service League will be shown the campus including the new gym facilities. Anyone who wants to help is asked to contact either the News Bureau or Rube Moulton in Ricketts before the end of next week.

K6-FCS and in military networks as AF6-FCS, it is equipped with a Johnson Viking II transmitter with VFO and an HQ Hammarland receiver. This equipment was made available to the MARS station by the Air Force to be operated by members of the Caltech AFROTC unit and other Caltech students who are licensed radio operators.

The purpose of MARS is transmission of military information and for communication in case of power failure or other civilian emergency. Emergency messages may be transmitted for civilians and already have been sent as far as Japan.

Cadet Lt. Phil Farrell, a Caltech senior physicist, is Com-

Trapnell defeated in close presidential race; Berg, Young, Morse, Elliott, and Kofsky win



PHIL CONLEY, newly elected student body president.

Hobby show to come in March

The Caltech personnel department will sponsor the 1955 arts and crafts show in Dabney Lounge March 30 through April 1. Exhibits of fine arts, photography, ceramics, models, textiles or any constructive hobby which have been made by the exhibitor will be on display in the lounge.

Last year the show included such outstanding features as a detailed model of steam locomotive, a gun club exhibit, model planes, and the photography of the Caltech Camera Club.

Anyone connected with Caltech, Huntington Library, Mt. Wilson or Palomar Observatories, Jet Propulsion Lab, of the Consolidated Wind Tunnel and members of his family may participate in the show. It is requested that anyone interested in exhibiting fill out and return the entry form as soon as possible. These forms are available from Dave Browne at Jet Propulsion Lab, Elizabeth Fairfield at Consolidated Wind Tunnel, or Charles Easley in the personnel office in Throop.

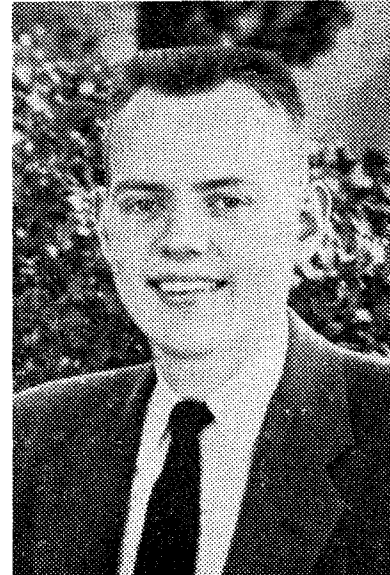
munications Officer in charge of the MARS station. Ferrell states that any Techman who is a U.S. citizen with an FCC radio operator's license is eligible to join the MARS staff.

The Radio Club has contrarily developed from the student body. A group of freshmen became interested in the idea while at New Student Camp. Returning to Pasadena, they investigated the history of the Caltech Radio Club. What they found was only incomplete records of two efforts to organize such a group, the first of which was in 1940 and the latter in 1948, and both of which soon folded.

Confident that they would suc-

(Continued on Page 4)

Phil Conley was elected ASCIT president yesterday. He defeated Fritz Trapnell in a close race. The vote in the presidential contest was: Conley, 257; Trapnell, 237. In the vice presidential race Howard Berg defeated Lyman Fretwell, 264 to 225. John Young was elected treasurer over Bob Gelber, 290 to 188; and Dick Morse defeated Curt Schulze for first representative, 302 to 180.



HOWARD BERG, vice president for next year.

Caltech profs act and sing at Fleming House

Last night the members of Fleming house were feted at a dinner given by Caltech faculty members. The dinner, a reward for the house collecting the largest amount in the charities drive, featured faculty members serving as waiters and as after-dinner entertainers.

The after-dinner entertainment, which was emceed by Ed Hutchings, editor of **Engineering and Science**, included a skit, "Diagnosis," with Drs. George Mayhew and eGorge Tanham; a dramatic recitation, "4 Prominent Btstards," in which the leads were played by Drs. C. W. McCormick, Ward Whaling, Dave Elliot, and Norman Davidson; and two songs: "Three Juvenile Delinquents" sung by Kent Clark, Ron Sowden, and Hutchings; and "I'm the Belle of the Greasy Spoon" sung by Mrs. Ned Hale.

In addition to these acts Elliott Davis, an imported pianist, performed at the piano; and Dr. Eugenio Calabi acted as a strolling accordionist.

Serving as waiters were Drs. Whaling, Bohnenblust, Kent Clark, D. S. Clark, Davidson, Elliott, Kryopoulos, Mayhew, McCormick, Neher, Tanham, and Corcoran, and Bert La Brucherie and Ed Hutchings.

INA sponsoring Athenaeum dance

The Caltech Inter-Nations Association will give a dance tonight in the Athenaeum basement. The dance, "Evening in Paris," will be held from 8 p.m. to 1 a.m.

The dance is open to everyone and is a drag or stag. Admission \$0.60 to members of the INA.

In the race for publicity manager Craig Elliott defeated Jon Harford, 247 to 235. Dick Johnson beat Bob Talbot for yell leader, 395 to 79; and Frank Kofsky defeated Howard Hilton for rally commissioner, 313 to 132.

Runoffs

In three of the races, secretary, athletic manager, and second representative, the vote was so close that runoff elections will have to be held. These runoff elections will be held next Monday, February 28.

The vote in the secretarial race was: Tom Bergeman, 187; Rube Moulton, 151; Bill McDonald, 82; and Ray Orbach, 72. Bergeman and Moulton will be in the runoff.

For athletic manager the vote was: Arne Kalm, 164; Jim Mebust, 124; Jim Workman, 124; and Reed Saunders, 69. The first three will be in the runoff.

For second representative: Dick Ashby, 136; Andy Perga, 121; Clarke Rees, 120; and Gerry Lawrence, 85. The first three will be in the runoff.

Publications

Also elected yesterday were the six unopposed candidates: Dick Hundley and Marty Tangora, **California Tech** co-editors; John Bailey, **California Tech** business manager; Don Nierlich, **Big T** editor; and Dean Anschultz and Norton Starr, **Big T** co-business manager.

The newly-elected men will take office for third term this year and the first two terms next year.

Flames subject of Friday talk

"Flames and Explosions" will be the subject of this week's Friday evening lecture. Dr. Stanford S. Penner, associate professor of jet propulsion, will be the speaker. The lecture will be given at 7:30 p.m. in 201 Bridge.

Dr. Penner will discuss scientific studies of flames and explosions which are of importance in connection with the development of jet propulsion engines. His talk will also deal with combustion problems in rocket engines and recent experiments on laboratory flames.

Professor Penner, a Caltech faculty member since 1951, has done extensive research in the fields of combustion and jet propulsion. He is a member of the Combustion Panels of both the NATO and U.S. Advisory Groups for Aeronautical Research. He is a graduate of Union College and holds MS and PhD degrees from the University of Wisconsin.

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The World and Tangora

by Walden Tangora

Words simply cannot express the feeling of pleasant surprise which overcame me when I realized that they were actually going to landscape the new athletic center.

I had taken it for granted that it was just going to be left the way it was a few weeks ago—stone and glass and bare dirt. After all, there is something to be said for keeping consistent with the rest of the campus. But where I come from trees and bushes and grass are the rule, and I guess somehow I even got to the point of liking a little greenery here and there—nothing lush, you understand, just a little here and there.

It's a good thing that the administration have kept their heads about this, though. Imagine what the expense would be if our little campus had any more green spots than it does! Upkeep on concrete is virtually nil compared to upkeep on trees

and bushes and grass.

Most of the good real estate developments are now being set up with restrictive clauses in the deeds. These clauses specify that if one wishes to build on the demised premises, one must spend at least a certain fixed amount (say 2% of the building cost) in landscaping the property. But such a general principle obviously would be impractical for the wheels in Throop Hall. After all, there is no reason that a college campus should have to be as attractive as a real estate development. College campuses should be functional; space should be utilized to the greatest possible degree, for everyone knows that students would rather walk to class past a hundred yards of concrete than past a quarter mile of trees and bushes and grass.

I have a picture of our little campus as it will be in fifty years, and it will surely be remarkably efficient, with dozens of stacked-up laboratories, parking lots, and archways. What a fine ratio of scientific eminence to beauty we will eventually build up!



Health center gets X-ray unit

Break a leg lately? If so, you've probably been one of the lucky few to use the new X-ray setup in the Health Center.

While the basic unit has been here since '49, it was only last month that the additional equipment needed to take X-ray photographs was installed. Before then, the machine had been used as a fluoroscope.

Up until now, anyone needing to have a X-ray taken had to go to Huntington Hospital had one of several X-ray specialists in Pasadena. This was inconvenient, time-consuming, and last but far from least, expensive.

It cost the Health Center Board \$1000 for the new equipment, but since it has cost \$2500 per year for X-rays taken outside, the machine will pay for itself in a relatively short time. Dr. Wood and the staff operate the X-ray unit themselves, so there is no additional expense for an X-ray technician.

One warning to the unwary ones who sneak into the Health Center through the back door—the one marked, "Please

Campus Brewins

"A hen is only an egg's way of making another egg."

—Samuel Butler.

It is possible that eggs need no means of reproduction for it has come to the Beak's attention that in Dabney the sophomore branch of the KKK began second term initiation. In attempting to lock four sterling frosh, Ashby, Hilton, Howell, and Kirk, in the alley 5 kitchenette perfection was not a prevalent factor. After securely pinning and barring the door with said frosh on the other side, master-mind Harper Whitehouse found that he also left a light and a pair of vise grips inside. Whitehorse later teamed up with fellow soph Dan Mack to break the alley 2 kitchen door. Going price is now around \$30 for such mishaps. Thus second term initiation ground to a halt.

Speaking of Eggs

Red faces were noted in Upper Doc's Alley of Blacker Saturday night when Raucous Reiter was

use front entrance." The X-ray machine is located just on the other side of the door, and as a result, it is now the "hottest" spot on campus.

heard commenting extremely loudly on his roommate's sexual habits. What Mr. Reiter didn't know was that parents of a fellow alley member were quietly sitting next door. The result was dead silence punctuated only by four raised eyebrows. When informed of his monumental faux-pas, Gordo replied with, "Well, I thought he was."

Mountain to Mohammed

Janice Addicott again found the call of Tech irresistible. This time, with fellow South Passie, LaVerne Huck, she wandered into Fleming at one A.M. Apparently Phlegms John Myers and Bob Smoak were successful in subduing these maidens for young Janice left with more than her spirits dampened. Possibly this is the advent of similar but more interesting water fights.

Ricketts Brewins

No justice dept.; Saturday night a group of loyal Trojans were living it up at an SC sorority party which was to be highlighted by a drawing for a pair of beautiful and genuine SC Trojan cuff links. Who won the cuff links? None other than disloyal, non-Trojan Adams.

A Campus-to-Career Case History



He figures for the future

It's James Kirchhoff's job to look ahead. As a Plant Engineer with Illinois Bell Telephone Company, he helps estimate telephone equipment needs years in advance.

For example . . . when a new real estate development is in the planning stage, Jim figures how much telephone equipment it will need when it reaches its full growth. His estimate is based on his knowledge of

the equipment's potential plus forecasts provided him of the area's rate of development. He then makes a complete report that becomes the basis of plans for the future.

Jim can take a look at his own future, too. In telephone engineering he can see a great many opportunities opening up in the next five years . . . ten years. He can pick the one he wants and start working toward it.

Jim graduated from Northwestern University as an E.E., class of 1952. His progress since then is typical of college men who have chosen telephone careers. If you'd be interested in a similar opportunity, see your Placement Officer for full details. There are also openings with other Bell telephone companies, with Bell Telephone Laboratories, or Western Electric and the Sandia Corporation.



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Wandering reporter attracted to neglected Geology Museum

by Joe Fineman

(EDITOR'S NOTE: This is the first of a series of Tech articles about interesting, but infrequently visited spots on campus.

The average Tech student may have been herded into the Geology Museum for five minutes on that first Guided Tour of the campus, but by now that was 'Way Back When, even for the frosh. A short stroll through the premises reveals a tremendous variety of samples of geological work.

Naturally, the first thing that catches your attention is the enormous mounted skeleton that fills half the room, which a sign identifies as a plesiosaur, or 100,000,000 year old sea serpent. Its neck takes up half of its length, attached at one end to a monster rib cage and at the other end to a tiny head. It is doubtful, however, if this animal took advantage of its splendid opportunity to look through its ribs and think it were in prison. Mostly it just paddled around on its four big flippers and ate raw fish.

Beyond and to the right is an excellent exhibit on the horse, including a complete Eohippus, a 13 inch high beast which is what horses were about 50 million years ago. This is something you will not get a chance to see in many places, because complete skeletons are rarely found. Even this one has a skull that came from a different animal from the rest of the skeleton. Other specimens of various bones follow in detail the Eohippus' development into our modern horse.

Leaving the vertebrae section after a cursory glance at a few piles of jaws and teeth, we find on the left a large collection of fossilized sea food, including such interesting forms as the ammonites, which grow in

mathematically perfect spirals. People who say that God must have been a mathematician will probably like this sort of thing.

No geology museum could be without a good collection of rocks, and there are some very beautiful ones there which will catch the eye of even a non-geologist. Most of them come from the West and are there as the result of Caltech work.

An exhibit on the Grand Canyon shows the variety and sorts of rocks that give it its color. Also there are several cases of gems and semi-precious stones, mostly part of the Gray McIntosh collection, ranging from crystal clear quartz to topaz and tourmaline.

Tax explanations available at Throop

The Pasadena office of the Director of Internal Revenue has arranged to have a deputy at Caltech today; Monday, March 7; and Tuesday, March 8.

The Deputy Director of Internal Revenue will be located in the lobby of Throop Hall for these four days, and will be prepared to help members of the faculty, staff, and student body with the preparation of their 1954 Federal Income Tax returns.

Radio astro head coming

Mr. John G. Bolton, who in 1948 discovered the first of the so-called "radio stars," has been appointed a senior research fellow in physics and astronomy at Caltech. He will assume his duties here immediately as scientific director of a new project in the field of radio astronomy.

The major goals of Caltech's radio astronomy project will be to detect radio signals from outer space, to find out what their sources are, and to discover as much as possible about the position, strength and size of these sources.

This radio astronomy project will be an important supplement to the astronomical work carried on at the Mount Wilson and Palomar Observatories, and will be greatly aided by Caltech's current research and development in ultra-sensitive radio receivers and high-frequency tubes.

Mr. Bolton, although only 33 years old, is regarded as one of the pioneers in the discovery of radio noise sources. Shortly after his 1948 discovery of a radio source in the constellation Cygnus, he made the first identification of a radio source with a visible object, the Crab Nebula. Since the recent discovery of an intense radio source at the center of our own galaxy, the Milky Way.

Bolton received his BA with honors in physics at Cambridge University in 1941.

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Houses slate dances, exchange, snow party for full weekend

The student houses will feature a variety of social activity this weekend, including two decoration dances, a snow party, and an exchange.

Saturday night from 9 to 12:30, Ricketts will have its Apache Dance, which has become an annual tradition. The Ricketts lounge will be transformed into a cafe in old Paris. The men of Ricketts and their dates will be attired in the Parisian manner suitable to the setting. Music for dancing will be provided by Chick Rogers and his orchestra.

The Blacker lounge will also change its appearance. Saturday night, for the Blacker Casino Party, to be held from 8 to 12:30. The saloon to be depicted, will include swinging doors, a bar,

and gambling tables. The bar and gambling activity will provide diversion from dancing.

Dabney has an all-weekend snow party scheduled at the Caltech Ski Hut. The snow will start flying Friday evening and continue until Sunday afternoon. As with most snow parties the activities will include everything from skiing to snowball fights. Adequate chaperones, probably faculty members, will be present to keep things under control.

Fleming men will be the guests of the Twin Pines girls' sorority of UCLA Saturday night. This exchange beginning at 8:30, is expected to be partially a date affair.

ENGINEERING SENIORS

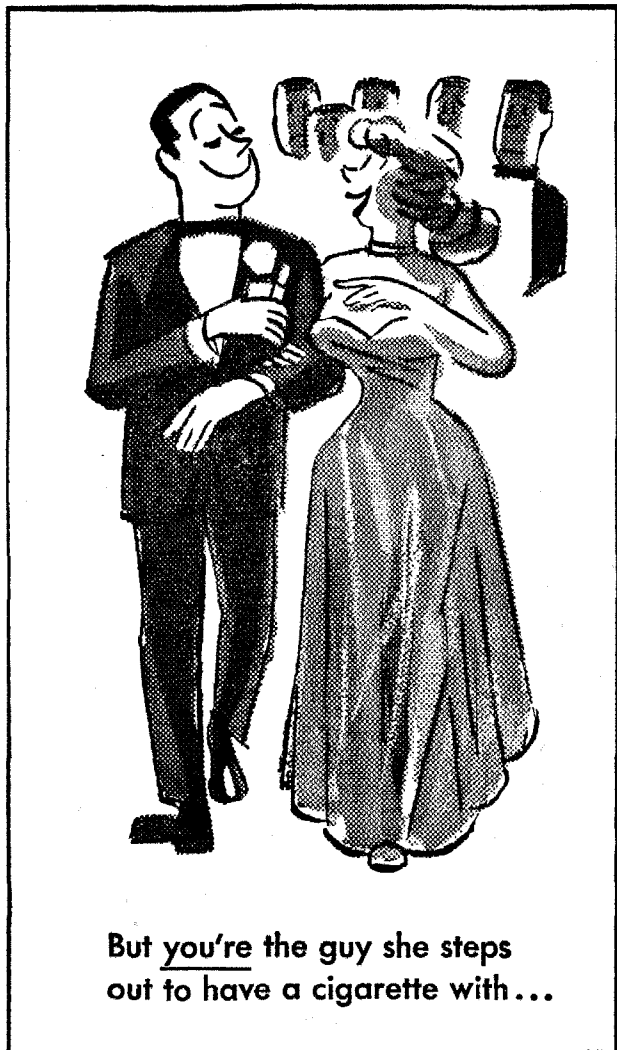
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The COOL Corner

by Frank Kofsky

I was dozing in class one day when suddenly it dawned on me that never once had I mentioned one (1) vocalist at any length. Fearing immediate reprisals, I took my chisel and stone tablet in hand, and sped off to the record stores in search of information. Fortunately for all concerned, my quest proved successful, and with your permission, I shall relay my findings.

If you, like me, are an extremely ardent admirer of the Four Freshmen, you may be dismayed or overjoyed, as the case may be, to learn that you are well on your way to becoming a follower of progressive jazz. The Freshmen, as their name implies, are a quartet, and besides singing, they provide their own musical accompaniment. The resulting renditions can best be described by the word beautiful. They sound somewhat like a vocal version of Stan Kenton's orchestra, which is not too unusual, considering that they used to be with Kenton. Their records on Capitol's "Voices in Modern" series are danceable, extremely listenable and I cannot recommend them too strongly. To get the idea, try and listen to their excellent version of "We'll Be Together Again."

Miss June Christy, who is in reality Mrs. Bob Cooper, is another product of the Stan Kenton organization. Prior to 1954 she was Kenton's vocalist, but last year, backed by Pete Rugolo (another ex-Kentonite) she put out her latest album entitled "Something Cool," and the album is just that. She does some standards and some new tunes in the album, all with her characteristic refreshing style and sweet voice.

MISS Christy met HER HUSBAND, "Coop," when HE was with Kenton; however, he also left Kenton, and is presently blowing tenor and oboe at the Lighthouse. Occasionally June can be seen on the TV show, "Musical Chairs," on Friday nights at ten on some channel or other. Incidentally she, together with Chet Baker, Nat (King) Cole, and Nelson Riddle will make a personal appearance at Royce Hall, UCLA, February 27.

Sigma Xi will hear Dr. Mazia

Dr. Daniel Mazia, professor of zoology at the University of California, will visit Caltech next week as a Sigma Xi lecturer. He will address members of the Caltech chapter Wednesday, March 2, at 4:30 p.m. in 119 Kerckhoff on "The Life History of the Cell."

The Society of Sigma Xi, national honorary science organization, sponsors annual speaking tours of its chapters.

In his talk Dr. Mazia will discuss recent investigations of the growth, division, and genetic apparatus of the cell. He will describe new methods for following events in the life history of a single cell and recent advances in the interpretation of the role of hereditary equipment in the cell.

Dr. Mazia is well known for his research in several branches of biology and zoology. He is a Fellow of the American Academy of Arts and Sciences, a member of National Research Council committees, and of the Board of Trustees of the Marine Biological Laboratory at Woods Hole.

Debaters enter UCLA tournament

At the U.C.L.A. tournament held last Friday and Saturday, Tech debaters received two degrees of Excellence. At the tournament, which was primarily individual events, Tech entered Ray Orbach in Upper Division Extemp and Bill Lindley in Upper Division Impromptu and Oral Interpretation. Bill won a degree of Excellence for his showing in Oral Interpretation, and Ray won a degree of Excellence in Extemp.

The purpose of the tournament was to mold into shape, in the individual events, the debaters that may attend the national Pi Kappa Delta tournament at Redlands next semester.

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AIR FORCE

(Continued from Page 1)
ceed where others had failed, the group obtained Dr. Langmuir as advisor and elected officers for the remainder of the year. Andy Perga was elected president, Tod Whitmore, vice president, and Joe Fineman, secretary-treasurer. Meetings of the

club have been held on the first Thursday of each month during assembly period.

There are signs of a synthesis of these two organizations, for the Radio Club offers lessons in Morse code and theory preparatory to obtaining the ham license necessary for MARS membership.

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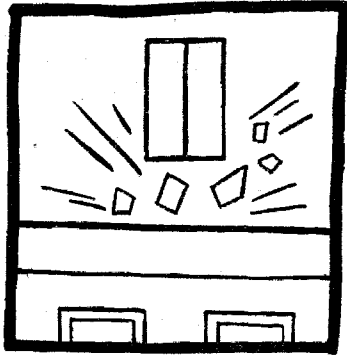
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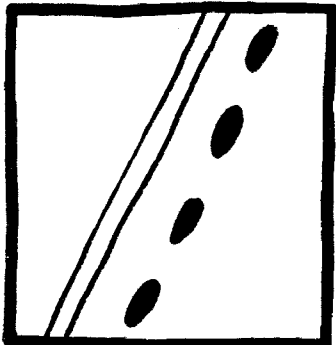
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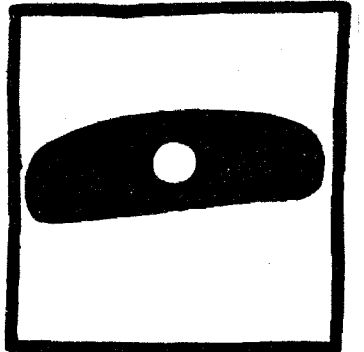
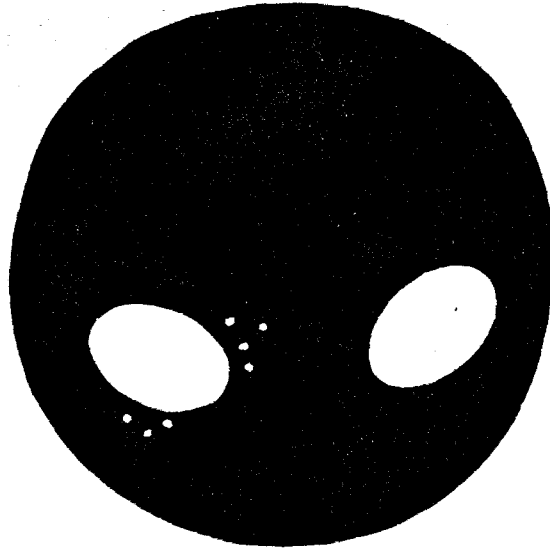


ELEVATOR ARRIVING AT 5TH FLOOR OF 3-STORY BUILDING
Gary R. Dierking
University of Kansas

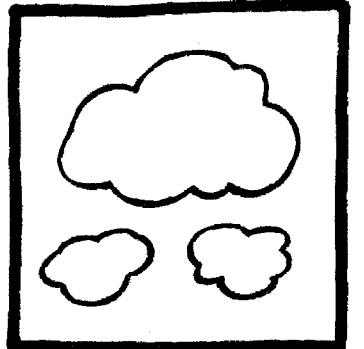


SKIER LOOKING FOR LOST SKI
James U. Crouse
Colorado State College

WHAT'S THIS? For solution see paragraph below.



MOTORCYCLE COP SEEN IN REAR-VIEW MIRROR AT NIGHT
Frank Shunney
University of Maryland



SECRET JET FIGHTER PHOTOGRAPHED BY INCOMPETENT SPY
Janice Abeloff
UCLA

Interview Schedule

Fri., 25—BS, MS, PhD/Ge, Geoph, Ph, Ch, CHE, ME, CE, EE, CONTINENTAL OIL COMPANY.
Fri., 25—BSup/Ph, EE, ME, Ma, LINCOLN LAB—MIT, Lexington, Mass.
Fri., 25; Mon., 28—BS, MS, PhD/ME, CHE, EE, Ae, Ch, Ph, AEROJET—GEN'L. CORP., Azusa, Calif.
Mon., 28—JD, Ph, ME, EE, Ma, Ch, GENERAL ELECTRIC CORP.
— M A R C H —
Tues., 1—BSup/Ae, CE, EE, ME; MS, PhD/Ph, Ma, CONVAIR—Ft. Worth (Div. of General Dynamics Corp.
Tues., 1—BS, MS/CE, ME, EE, CORPS OF ENGINEERS—U. S. ARMY.
Wed., 2—BS/EE, ME, BENDIX AVIATION CORP. Interviewing for all divisions: Pacific Div., North Hollywood, Bendix Products Div., South Bend, Ind. and Eclipse Pioneer Div., Teterboro, N. J.
Wed., 2—BS, MS, PhD/Ge, Geoph; BSUp/Ge, Geoph for Summer SOCONY VAC. OIL CO., INC. All employment is in Venezuela.
Wed., 2; Thurs., 3—BS, MS, PhD/Ch; BS, MS/CHE, ME, TECHNICOLOR MOTION PICTURE CORP.
Thurs., 3—BS/CE, EE, ME, Ph (Interested in electronics) MARE IS. NAV. SHIP.
Thurs., 3—BS, MS, PhD/EE, Ph, ME; Jrs/ME, EE for Summer. HYCON MFG. CO., Pasadena.
Fri., 4—BS, MS, PhD/CE, Ae, EE, ME, NORTH AMER. AVIATION ENG. DEPT., Inglewood, California.
Fri., 4—BS, MS, PhD/Ch, CHE, COLUMBIA-SOUTHERN CHEM. CO., Corpus Christi, Texas.



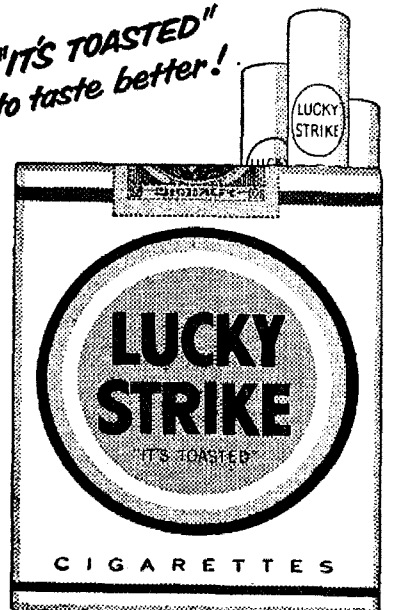
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Varsity, Frosh split with Oxy

Occidental College assured itself of at least a tie for the SCIAC basketball championship by defeating Caltech, 49-43, in Scott Brown Gymnasium Tuesday night. The victory was Oxy's seventh against one defeat, while Whittier has a 6-1 record with one game left to play. For Tech it was the seventh league defeat. The Beaver frosh meanwhile assured themselves of at least third place in the conference by beating the Oxy frosh 51-46 to reverse a previous Oxy victory.

Varsity

The varsity game started out fairly close, but the visiting Tigers pulled away to a 35-25 halftime lead as Tech could only hit on 25 per cent of its floor shots. In the second half the Beavers started to catch up, closing the gap 44-39, but then they turned cold again while watching Oxy spurt to a twenty point lead. The second half shooting percentage for Tech was even worse than the first half as they hit for only 15 per cent.

Bill Gregory spearheaded the Tiger victory with 19 points. Captain Bill Chambers led the Tech cause with 17 points on 4 field goals and 9 for 16 free throws. Dick Sovde and Bob Henry had 14 and 13 points, respectively, for Oxy. Tech center Phil Conley scored 10.

Tonight Caltech closes its season with a game against Pomona at Pomona. Tech lost to the Hens 49-46 earlier in the season, but a victory now would give the Beavers a tie for fourth place in conference.

For Bill Chambers, George Madsen, and Jim Tyler it will be the last game in a Tech basketball uniform. These men are all three year lettermen and have formed the nucleus of this year's team. Let's all give them a big sendoff at the Pomona game with our support.

Frosh

The frosh victory came as a pleasant surprise and assured the team of a winning season as they have already defeated both Redlands and Whittier.

Solid defense and the shooting of Ron Marson, Sonny Nelson, and Glenn Converse brought the victory. Tech used a zone defense throughout the game and general alertness made passing so unprofitable that Oxy was reduced to long shots. Good defensive rebounding resulted in ball control and enabled Tech to play the game in the slow deliberate manner which suits the team best.

Oxy was never ahead although it came from a 25-21 halftime deficit to tie the game at 29-29 and 31-31. Converse played a sparkling game in the post. His

(Continued on Page 6)

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Cagers bow in two games

The Beaver basketballers spent their weekend playing a couple non-conference opponents and they came out on the short end of the score both times. Friday night Tech played another thriller with crosstown rival Pasadena Nazarene and bowed in the final minutes by the score of 65-64. Saturday night the cagers moved to Long Beach and dropped a 67-53 decision in a game that was a lot closer than the score indicates.

In Friday's game the Crusaders shot into a quick lead, but Tech soon overhauled them and pushed its margin to 37-32 by halftime. In the second half the Beaver team continued to increase their lead and by halfway through the period they were 13 points in front. Then Nazarene started hitting the hoops and, urged on by their rooters, they cut the Tech lead to three. Late in the game they tied the game at 61-61 and then forged to a 65-62 lead. With seconds left Tech got possession of the ball and Jim Tyler laid one in just as the gun went off, but the Nazarenes had their one point victory.

Saturday night's game with the Long Beach Staters was close most of the way, with the home team pulling away to a big advantage in the final minutes. The half time score was 30-27 with State in the lead, but Tech scored the first basket of the second period and then the lead changed hands for about ten minutes before Long Beach forged to the front.

Caltech netters win first match

Caltech's tennis team started the season off on the right foot as they beat Pomona-Claremont in a conference match, 6-3. It was Tech's first win over the Sageshens in five years, but the men had to fight for it all the way. All the matches were close ones and only three of nine were finished in two sets.

In the featured first singles match Alva Yano of Tech defeated Lockie Haight, 6-3, 3-6, 6-1. In the other singles matches Ax of Pomona defeated Mueller, 6-3, 7-5. Barnes of Tech beat Jeter, 6-1, 5-7, 6-0. Tech's Beebower beat Bob Wager, 7-5, 6-4. Morris of the Hens downed Schmid, 2-6, 6-1, 7-5. Poisner of Tech took care of Don Wager, 6-8, 6-4, 6-1.

In doubles competition Yano and Mueller beat Haight and Jeter, 10-8, 4-6, 6-3. Beebower and Barnes downed the Wagers, 6-2, 4-6, 6-0. Hobbs and Becker of Pomona beat Schmid and Hays, 7-5, 8-6 in the third doubles match.

Four meet records broken as Juniors win Interclass

Four meet records were tied or broken in last Saturday's Interclass track meet as the Juniors won with 49 points. The Seniors were second with 42, the Frosh had 40, and the Sophomores trailed with 33. It was, however, the closest Interclass meet in several years as but two points separated the top three teams with two events to go. Then the Juniors came through with first and second in the broad jump to clinch the contest.

Don Lewis and Fred Witteborn got the Juniors off to a booming start in the first race of the day, the mile run. Lewis won in 4:38.7, but Witteborn was only two strides back, and he was timed in 4:38.9. Both runners broke the old meet record of 4:39.0 which had stood since 1932.

Junior Roger Wileman ran a record-equaling 51.8 440 and John Lukesh of the Sophs won both sprints, in 10.5 and 22.6.

Rod Supple broke the two minute barrier in the 880 as he

turned in a great 1:59.0 clocking, completely shattering the old meet record of 2:04.1. Supple turned in his fine race with no close competition, as the second place man, Mike Rusch, was over seven seconds behind. It's fun to run, isn't it, Rod?

Soph Ted Lang flung the discus 135'1½" to break the meet record by more than three feet. Another Soph, Chuck Luke, won the javelin at 153'7½" and Senior Sam Sims took the shot put with a heave of 37'5½".

Junior Jim Lloyd was high point man for the meet, taking three firsts in the jumps. He pole vaulted 11'6", broad jumped 19'1½", and took the high jump at 5'7".

Senior Don Taylor ran away with both the hurdle races and Frosh Tom Moore turned in a good 10:28.1 as he easily won the two mile run.

The Soph team of Marty Tangora, Ed Berry, Ted Lang, and John Lukesh ended the day by winning the 880 relay in 1:34.5.

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Beaver basketballers break into win column with LaVerne victory

Caltech's on-again, off-again basketball team broke into the win column for the fifth time this season with a convincing 76-59 victory over highly-touted LaVerne College on February 15 in the Tech gym.

The first half of the game was fairly close with the visiting Leopards holding the early lead, but Tech, hitting more consistently than at any time this season, soon pulled ahead, and at the intermission the scoreboard read: Caltech 37, LaVerne 33.

In the second period the Beavers continued to build up their lead and it became increasingly clear who the eventual victor would be. As the end of the game neared, the Beavers began to stall and LaVerne drew a

number of fouls in their attempt to get the ball. Bill Chambers and George Madsen hit consistently from the free throw line to break the Leopards' backs.

Tech center Conley scored on better than 50 per cent of his floor shots to rack up 25 points and lead both teams in the scoring department. Chambers and Madsen each had 13 and Jim Tyler potted 6 field goals for 12 points. For LaVerne, Carter scored 15 and Stanford 13.

Varsity Frosh (Continued from page 5)

rebounding and general hustling added to his 15 points totaled a significant contribution to the win. Marson was high scorer with 19 points and Nelson had 15. Forwards Gene Cordes, Dick Van Kirk and Don Wiberg afforded the hustle, rebounding, and defense that does not appear in the statistics.

Tonight the team plays its last game of the season at Pomona. The Sagehens are leading the league, but Tech is pointing for another upset.

Tech trackmen begin season

Caltech's varsity track team opens its season tomorrow afternoon with a four-way meet with Pasadena Nazarene, LaVerne, and Cal Poly of San Dimas. The Beaver tracksters will be favored to win handily on the basis of early season performances.

It looks like Tech has a fine chance to win the amateur division of the SCIC (all the schools excluding Oxy) this year. Last Saturday's interclass meet brought out some fine times in a number of events. Tech has two good milers in Lewis and Witteborn and an excellent half-miler in Rod Supple. Roger Wileman and Supple will provide the punch in the 440 and John Lukesh (10.2 and 22.4) and Jim Tyler (10.0 and 22.2 last year) will be the sprinters.

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Frosh Sports Roundup

by Bob Walsh

Tech's freshman basketballers won two out of three last week, defeating La Verne 63-42, losing to Pasadena Nazarene 70-48 and winning 56-52 from Long Beach State.

Wednesday afternoon's La Verne game was never in doubt as Tech took a commanding 31-14 half-time lead and coasted the rest of the way. The game was played with a make-shift scoreboard and a stopwatch as the Scott Brown scoreboard and went out at the opening tip-off. Sonny Nelson and Glenn Converse were high scorers with 19 and 16 points respectively.

Nazarene overwhelmed the Beavers Friday night with center Jim Bond leading the way. He only scored 20 points Friday as compared with 47 in an earlier game with Tech. Nelson was again high for Tech with 16 points.

With the score 56-53 at Long Beach and 5 seconds remaining, Bomberg of State was awarded two free throws on a foul. He missed the first and in attempting to bounce the ball toward a teammate, missed the rim altogether on the second shot. Tech easily ran out the remaining time to win. Nelson's 17 points gave him high man honors for the third time that week.

Pomona defeated the tennis team 9-0 in the first conference match of our frosh. Roger Walihan won the only set for Tech although Bob Tokheim and Phil Reynolds forced their opponents to 28 games before losing their first set. The next match will be with Redlands Saturday on the Caltech courts at 1:30.

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