

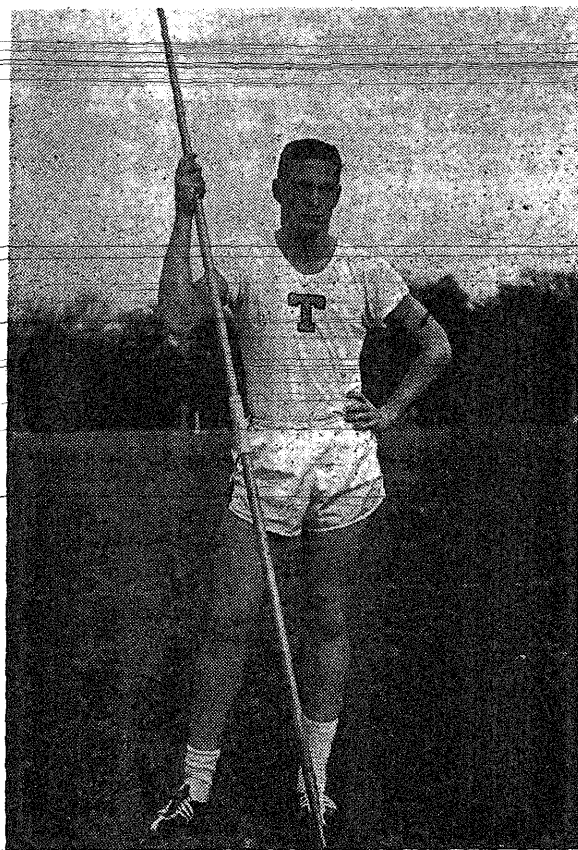
# The California Tech

California Institute of Technology

Volume LVIII

Pasadena, California, Friday, September 28, 1956

Number 1



Phil Conley

## Conley, past ASCIT prexy, to Olympics

Pride and joy of all Caltech alumni and students is Phil Conley, member of the class of '56 and a representative of the United States in the javelin throw at this year's Olympic Games at Melbourne, Australia.

Though Phil's remarkable record in college activities has been cited time and again by various members of the press, the staff of the California Tech realizes that new students at the institute may yet be unfamiliar with it and is printing this resume to enable them to talk about their new-found hero with ease and precision concerning dates, distances, and votes.

Pleasant red-headed Phil came to Tech in the fall of 1952 and by the end of his freshman year he had competed in all four major sports and set a new freshman record of over 176 feet in the javelin throw, an entirely new event to Phil at the time. In his sophomore year Phil lettered in all four major sports, played on the SCC championship basketball team of that season, and set a new conference record of 199' 2" in the javelin, as well as being elected ASCIT athletic manager.

National recognition came to Phil in his junior year as he broke the NCAA meet record in the javelin throw, only to see four others top his mark in the same meet. His fifth place in the javelin gave Caltech's "team" more points than most of the largest colleges in the country. Phil also found time to lead the SCC in total offense in football, gain second team berths on the all-conference teams in football and basketball, and become ASCIT president.

Last year saw Conley outdistance all other collegiate throwers in the country to become National Collegiate champion with a throw of over 239'. In the Olympic trials Phil not only bet-

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## Purposes of Frosh rotation reemphasized by Tech chief

by Tom Dodge

School days, school days, good old smoggy school days. Well we're all back from a tough summer and attempting to assimilate the new freshman class. The traditional and most efficient method of acquainting new freshmen to life in the student houses is the process of rotation. And after rotation comes selection and choosing of freshmen and houses. The decisions will greatly influence friendships for the coming year.

### Juniors sun at small cove near Laguna

About fifty persons are expected at Laguna Beach Sunday for the Junior Class Beach Party, according to Bob Walsh, social chairman.

Diver's Cove, a small cove slightly north of the main beach, has been chosen as the site for the affair. The spot features clear water, good surf, and a rocky area for a fire and dinner. Only soda pop and hot chocolate will be served as beverages, but those who wish to bring other refreshments are encouraged.

The meal will include hamburgers, spaghetti, garlic bread, and cold watermelon. The latter will be transported in ice to provide a cold treat for the bathers.

Most of the juniors are expected to bring dates, but stags will be warmly welcomed. Transportation problems are being solved by Dick Baron, class president.

As a secondary, but nonetheless important, purpose of rotation is for frosh to become acquainted with people in houses other than the one which they eventually choose. This may seem rather prosaic at the moment, but it is nevertheless something which is not fully realized by the freshmen. This is the time of the expansive and convivial upper-classman (not that they aren't always convivial) and it is wise to meet as many as possible. After rotation comes initiation which shapes and molds the frosh class into five separate groups and eventually integrates these groups into their respective houses. It takes time for the average freshman to become acquainted with those of his own class outside his own section, and even more time to know the upperclassmen in his house; he may never have an equal opportunity to meet the upperclassmen of other houses. This is not to say that anyone is expected to become acquainted with everyone at Tech, but many valuable friendships are missed

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### Announcements

#### Football

Caltech's Beavers will host Cal Baptist in Tournament Park Saturday as we open our football season. Game time is 2 p.m., and good spots will be at a premium. For complete story see pg. 5.

#### Taxi dance

The entire student body has been invited to attend the Scripps Taxi Dance at Olive Court on the Scripps campus. The dance will begin at 8:30 p.m. This dance promises to be better than the average exchange because even the super-queens have refused dates on the night of the Taxi Dance.

#### Frosh managers

The opportunity is now open for a limited number of qualified men to help manage the Frosh football team. The job requires attention only two days a week and pays PE credit and a letter. Here's a chance to do something for the class. If you are interested and qualified (i. e. a Frosh), see Brad Efron in room 30 Ricketts.

## Faculty, research positions filled

New appointments to the faculty and research staff of Caltech made by action of the board of trustees, were announced here recently.

Named as associate professors were Arthur Code and Robert Finn. Dr. Code has been assistant professor of astronomy at the University of Wisconsin since 1953, having received his Ph.D. at the University of Chicago in 1950. Dr. Finn comes from the University of Southern California where he was assistant professor of mathematics. He received his Ph.D. from the University of Syracuse in 1951, and spent two years at the Institute for Advanced Study at Princeton.

#### Research fellows

Senior Research Fellows named are C. A. Barnes, who returns from a year at the University of British Columbia, and Dr. Leite Lopes. Dr. Lopes is professor of theoretical physics at the University of Brazil and is secretary for the International Conference for Peaceful Uses of Atomic Energy. He received his Ph.D. at Princeton in 1946 and spent several years there at the Institute for Advanced Study.

Assistant professors appointed are Howard M. Dintzis and Harden M. McConnell, in chemistry, and Capt. Arthur S. Cooper, air science and tactics. Dr. Dintzis received his Ph.D. from Harvard in 1953. Dr. McConnell is a Caltech graduate; he received his Ph.D. in 1951.

Dr. Basil Gordon, who received his Ph.D. from Caltech in 1956, has been appointed instructor in mathematics.

Lecturers appointed are Leonard Mahood and Thomas L. Russell.

## Faculty, students tell frosh of life at Caltech

The new freshman class, over 180 strong, spent Thursday, Friday, and Saturday of last week at the annual New Students' Camp at Camp Redford in the San Bernardino Mountains. The camp, the new students' first contact with Caltech, featured a series of orientation sessions, accompanied by the usual diversion of softball, football, volleyball, ping pong, and mountain golf, in addition to the Grand Amalgamated Talent Show.

Lee Hood was appointed freshman class president for the coming quarter. The Board of Directors also named Board of Control representatives Hurlke

## Frosh to meet local belles

The annual Freshman Tea Dance will introduce the new class to the charms (and wiles) of Southern California women Sunday from 2:30 to 5:00 p.m. in the lounge and garden of the Dabney Hall of Humanities.

The dance, jointly sponsored by the YMCA and ASCIT, under the supervision of Ike Haissman, will feature the music of Claude Davis and his ensemble.

As has been the custom in the past, the dance is expressly for freshmen, and except for a small group of "bouncers" and lovable master of ceremonies Herbie Rauch, no upperclassmen will be allowed. The freshmen will be slicked up in coats and ties to impress "queens" from Westridge, Mayfield, Immaculate Heart College, Occidental, Mount St. Mary's, Pomona, and San Marino.

During the three days of camp the freshmen were given glimpses of all the various facets of Caltech life. Student leaders and faculty members touched on such topics as the Honor System, social life, school spirit, life in the student houses, athletics, and of course studies.

Highlight of the camp was the Friday evening session featuring the Grand Amalgamated Talent Show and Dr. Lee DuBridge, President of the Institute. The frosh gave an excellent accounting of themselves in the fields of music and drama, and Dr. DuBridge was personable and impressive in his talk. "What Is Caltech?" Other speakers included student leaders Craig Elliott, Rube Moulton, Jim Workman, Mike Duke, Marty Tangora, Dick Kirk, Vince Taylor, Glenn Con-

(Continued on page 3)

### California Tech

Editor-in-Chief — Tom Dodge and Frank Kofsky  
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Photography: Dave Groce

Business Managers: Dan Chilton and Ed Park

Entered as second class matter November 22, 1947, at the Post Office in Pasadena, California under the Act of March 3, 1879.

## Letters to the Editor

The following letter was received at our office, and we feel that it reports a scientific advance of such major importance that it should be reproduced here.



"Attention Woman's Page Editor,  
California Tech:

A new kind of cosmetic, a remarkable discovery called Fling, the first anti-perspirant designed for the feet has just been developed. Research chemists have been experimenting for years to find an effective foot anti-perspirant, and have at last achieved success with this new Fling product.

Scented, flesh-colored and packed in an attractive green plastic squeeze "poo" bottle, it will be sold primarily to women as an asset for foot grooming and appearance. Women will now have "pedal emancipation." They can really feel footloose and fancy-free—free to curl up their feet on the sofa, kicking off their shoes without a second thought.

Fling is applied to the feet and lower leg by directing the bottle at the area to be powdered and squeezing in a positive, sustained manner. The bottle works either upright or inverted."

### FROSH ROTATION

(Continued from page 1)

or undeveloped because the opportunity was not exploited during rotation to meet as many fellows as possible.

There is much about rotation that, however necessary, is not emotionally appealing to many people. There is a great deal of superficial impressing and being impressed. This may be extremely difficult for some more sensitive individuals who would appreciate a low-pressure routine. Rotation combined with the rest of the new environment here at Tech could make life a trifle trying at times. This is probably the first time many have been roommates with some guy they didn't know; been served dinner by their schoolmates or worked a Strong problem. We can only offer our sympathy to these freshmen and explain that there is a job to be done. The freshmen and the Houses must make their respective choices before the school year really starts to roll; experience has proven to be the best approach to the problem. It may be consoling to know that the rushing here is somewhat less intense than fraternity rushing in other schools.

With the above word of encouragement we should like to continue with our fortune-telling. There will be the coming ignomines of initiation (of which most frosh are yet only dimly aware) which may seem too degrading to endure for budding Nobel-prize winners. The end result will be not just a freshman, but a Freshman of Blank House. And this is the purpose of rotation.

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## Cooper replaces Steffy in ROTC

The assignment of Capt. Arthur S. Cooper as training officer and instructor of air science and tactics for the Air Force ROTC detachment at Caltech was announced recently. Capt. Cooper, 31, comes to Caltech from two years service with AFROTC detachment at the University of Southern California, where he taught air science. He replaces Maj. Robert E. Steffy, who has been re-assigned to the Far East Command.

### Veteran pilot

Capt. Cooper entered the Air Force upon graduation from Glendale High School and was commissioned a Second Lieutenant in 1944 at the age of 19. He saw service in the southwest Pacific and, at the conclusion of World War II, left the regular Air Force and attended USC, receiving a B.S. degree in commercial aviation in 1950. He maintained active status in the USAF reserve and was recalled to active duty shortly after the outbreak of Korean hostilities. In Korea he flew 56 missions as a B-26 low-level strafing pilot and served with the infantry as a forward air controller. At the present time Capt. Cooper is working toward a M.S. degree in industrial management at USC in off-duty hours.

### Many decorations

For service in World War II and in the Korean conflict, Capt. Cooper has been awarded the Silver Star, Distinguished Flying Cross, Bronze Star, Air Medal, four Presidential Citations and 13 Battle Stars.

## Attention Breitbard!

Beards are now fetching \$5000.00 an ounce.

This super price tag results from a nationwide search by a New Jersey firm for men with beards 3 months old or more.

Ronson Corporation, in newspaper ads across the country offers five thousand dollars per ounce for the privilege of shaving the beards of men selected for an electric shaver commercial on a network TV program.

In order to qualify for this contest, an applicant must be over 21. Application is made by mailing a few sample strands of the beard to Ronson, along with a close-up snapshot of the full beard. Details of age and occupation must also be sent with the application. Payment for the beard will be made immediately at the time of the shaving.

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# The world of Modern Jazz

Teddy Charles

Although a few months old, Teddy Charles' debut on Atlantic records is of more than passing interest because of the skillful introduction of a good deal of material that originated in contemporary classical music into jazz. The problem of devising a form more interesting than the usual one (statement of theme—improvisation—concluding statement of theme) has long intrigued the jazz musician, and many of them, like Teddy Charles, have attacked the problem by bringing techniques learned in the study of European music to bear. Unfortunately, ambition has all too often exceeded musical intuition (a quantity difficult to define) and what results is a melange which is neither jazz nor classical music. Where others have failed, however, Charles has succeeded admirably in balancing the tonalities of the jazz improviser with the atonalities of arranged sections.

Besides Charles, other composers writing for the tenet were Gil Evans (who did part of the book for Miles Davis' infatigable session on Capitol), George Russel and Jim Guiffre. The only faults that I could find were minor ones: Evans' arrangement of YOU GO TO MY HEAD seemed to bog down in parts; Guiffre's THE QUIET TIME was all conceived a-tonally except for the last chord which resolved into a key, a process that strikes me as senseless at best. These details should not overshadow the all-around excellence of the compositions and arrangements which deserves to be noted.

No small measure of the album's achievement is due to the integrated performance of the musicians who play with an insight that must be due to Charles' leadership in his cooperative jazz workshop group. Since its inception by Charles and bassist Charlie Mingus (whose new album should be reviewed here soon), the workshop concert is gaining in popularity among jazz musicians.

All of the soloists perform well in unfamiliar surroundings, but Charles (vibes), Peter Urban (alias Art Farmer, I think) on trumpet, guitarist Jimmy Raney and J. R. Monterose playing tenor struck me as being outstanding. Monterose, in the Sonny Rollins-out-of-Charlie Parker vein, possesses one of the most lucid tenor voices I have heard to date, and he should be given an opportunity to record with his own group.

This album must be heard. (ATLANTIC 1229).

Lennie Niehaus

Somebody or other once remarked that he was waiting for an alto man to come along that combined the lyricism of Paul Desmond, the searching conception of Lee Konitz and the emotionalism of Sonny Stitt. Well, he's still waiting, and so am I. Nonetheless, of the younger altoists, Lennie Niehaus has had brief moments when it appeared that our vigil had ended. Unfortunately, these moments have never been sustained long enough to justify hailing Niehaus as THE altoist.

Certainly Lennie, has the potential to develop into a composite Desmond-Konitz-Stitt. The conceptions of Paul and Lee are evident in his playing, and he

verbally acknowledges their influence, as well as that of Parker, in formulating his style. Nevertheless, Niehaus' work bears only superficial resemblance to Bird's in certain areas. For instance, although the blues represent the most fundamental element in jazz, Bird was able to play them so that the listener received a profound emotional message from them. No one can deny that Niehaus is possessed of great talent but he just does not communicate emotionally, while Stitt, who may or may not be less advanced than Lennie, gets more of a message to the listener.

The rest of the soloists are (Caltech alumnus) Bill Perkins, tenor; Jim Guiffre, baritone; Stu Williamson, trumpet. Perkins is intelligent and unhurried as always, his warm tone compensating for the coolness of his attack. Guiffre plays well, for Guiffre, and I am forced to conclude that he records much better than he plays "live" (having heard him play two choruses consisting of two notes with Shorty Rogers' group). Williamson, on the other hand, sounds much more vital with Shelly Manne's quintet. Shelly is also present, contributing his usual quota of well-conceived drum breaks.

There are quite a few problems arising from Lennie's use of a piano-less rhythm section, most of which are solved quite nicely. There is a feeling of anticipation waiting for the non-existent piano to come in of which Niehaus takes advantage, although there are definitely places where the addition of a piano would be a decided improvement. (CONTEMPORARY 3524).

George Wallington

This record will probably serve as an introduction to two new young soloists, altoist Phil Woods and trumpeter Donald Byrd (Wallington is present, of course, on piano). Both are excellent, and I mean excellent, jazzmen, but Byrd shows signs of being the brightest trumpet star since the late and sorely-missed Clifford Brown. On this record as well as others, Don has shown his ability to blow a long line that is not dependent on the usual bop cliches, and listening to him presents a constant joy... the joy of discovery. I hope to discuss Byrd's style at greater lengths in a later issue.

High points in this album are many but my biggest boot came from the improvised counterpoint in Phil's TOGETHER WE WAIL, although the pace seemed a little forced as did the double-time section of Byrd's solo on OUR LOVE IS HERE TO STAY. Bassist Teddy Kotick and drummer Art Taylor complete the quintet, and if Taylor seems a little rambunctious at times, the strong pulse from the rhythm section is ample compensation. Absolutely first class. (PRES-TIGE 7032).

Frank Kotsky

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## Brandow leads Y during '56-'57

For many Caltech students, the high-point of the scholastic year is the YMCA Leaders of America program. Under this plan, world-famous personalities live on the campus, allowing students to meet and question them informally. Those men are chosen whose characters typify the Y's ideals. Last year's guests were supreme court justice William O. Douglas, Paul G. Hoffman, and Ralph Bunche. Tentative plans for this year bring Robert Oppenheimer and Dr. Sarupalli Radhakrishnan, vice-president of India, to the Institute.

Baird Brandow, president of the Caltech Y, is initiating a plan this year to broaden interest in three fields, religious inquiry, social action, and community service. Discussion groups are being set up, and those interested are urged to contact committee chairmen Barry Bass, Don Pinkerton and George Hall respectively.

Students wanting to join the YMCA may do so by going to the Y office across from Ricketts house, and expressing agreement with the YMCA's statement of purpose.

## Little 'T' serves as aid to students

The Little T, dressed in a conservative black cover, made its thirty-fifth appearance at registration this week. Officially known as the handbook of the ASCIT, this publication contains all those necessary bits of information which Technen use constantly here at the Institute.

Primarily, however, the Little T is designed to aid new students in getting acquainted with the campus and traditions here at Caltech. It provides in its two hundred fifty pages a complete shopping guide, student index, by-laws of the ASCIT, welcome from President DuBridge and the Deans, along with a few shovelfuls of propaganda about the various houses, clubs, and societies.

Editor-in-Chief of this year's copy is Mike Godfrey and Jacqueline Brown, Mike's fiancée, served as managing the editor, or something like that.

## PAULING GRANT

(Continued from page 1)

dividual to manufacture abnormal molecules instead of the normal molecules, present in normal persons.

The initial subject of the research will be Phenylketonuria a disorder which affects many mentally retarded persons. It is known that this condition involves a failure of the body to oxidize a certain amino acid. Pauling believes that this condition may be due to abnormal enzyme molecules, and thus be a molecular disease. In studying the disease, Dr. Pauling and his group will attempt to develop methods for the isolation and characterization of enzymes in normal individuals, and then apply these methods in a search for molecules differing from the normal enzyme. They will also search for the mechanism whereby the mental manifestations of the disease are produced.

## PHIL CONLEY

(Continued from page 1)

tered the existing Olympic record, but beat world record holder Bud Held to qualify for the United States team, throwing 244' 1". At an exhibition meet during the summer Phil threw the javelin over 251', making him the 22nd best javelin thrower in all recorded history.

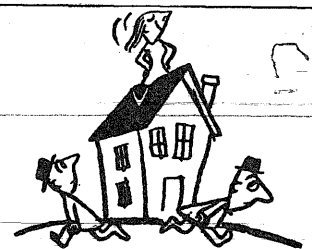
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**FROSH CAMP**

(Continued from page 1)

verse, Jon Harford, and Mike Konrad; graduates John Merrill and Fritz Trapnell; and faculty members Prof. Sharp, "Doc" Clark, and Dean Strong, Jones, and Eaton.

The "Too Eager Beaver" skits

were presented again this year by the Beavers in an effort to tone down the overly loud few among the frosh. Later that evening the Beaver commissary made a killing in soft drinks as frosh discovered that the drinking fountains were not turned on. Saturday afternoon, after a

clue session with the upperclassmen on campus life, the freshmen took the measure of the aging faculty in the annual Frosh-Faculty softball game.

The busses left for Pasadena at about 6:00 p.m. Saturday, carrying a full load of dusty and expectant freshmen.

**Frosh win honors**

Fourteen entering freshmen have been accorded honors at entrance on the basis of their high standing on entrance examinations, the Admissions Office has announced.

They include Neville A. Black,

David W. Butterfield, Samuel Ginsberg, Alfred W. Hales, Lester L. Hirst, Jr., Thomas H. Kiel, John Herbert Munson, James K. Neeland, Melvin King Neville, Ronald T. Phelan, David B. Singmaster, Stephen V. Stephens, Charles D. Trippe and John P. Van-Dyke.

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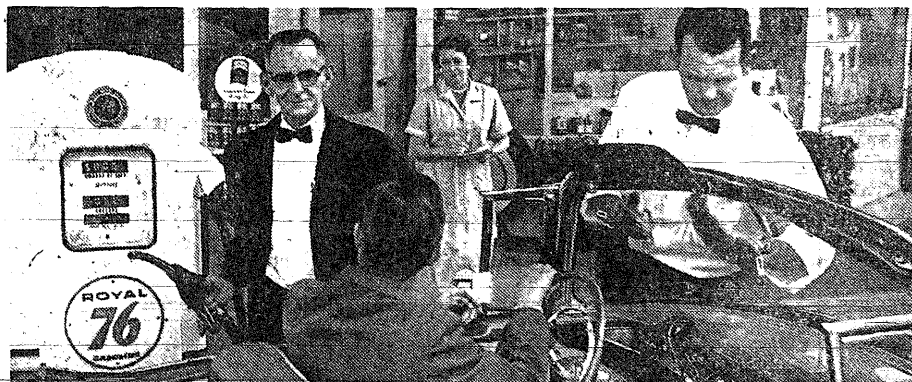
Yet in spite of continually rising costs like this we have been able to keep prices down, while constantly expanding our service and improving our product.

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# Football season opens as gridgers play Cal Baptist

Caltech's 1956 sports schedule gets under way tomorrow with the varsity football team playing host to Cal Baptist at 2 p.m. on Paddock Field.

Coach Bert LaBrucherie's Beavers will go into the game as slight favorites, mostly on the basis of a strong lineup from tackle to tackle in the forward wall. Tackles Larry Berry and Larry Whitlow have sparked the Caltech linemen in pre-season drills to date, with guard Jim Snyder playing steady, effective ball.

The Baptists are in their third season of organized football. In their only previous meeting with a Caltech team they dropped a 38-13 decision to the freshman squad of 1954.

Last week the Beavers met the University of California at Riverside in a practice scrimmage.

Offensive standouts for Caltech were backs Ed Krehbiel and Charley Malone, both starters from last season, and end Bill Mauer, who caught two touchdown passes.

Caltech will be using a combined double wingsplit T offense this season with Dick Van Kirk or Bob Ingram in the vital quarterback-tailback slot. Van Kirk, hampered by a sprained ankle the past week, is a doubtful starter and Ingram, fast improving sophomore, may be LaBrucherie's starting quarterback.

Fred Newman is the probable starting left halfback, though Hal Forsen, junior transfer from Compton, may break into the starting lineup after his sprained ankle heals.

Lettermen Ed Nelson and Gene Stanley are likely prospects for the starting end spots. Lance Hays, the only healthy center on the squad after Joe Lingerfelt was sidelined by influenza, rates the nod at that position. John Conover, Russ Pitzer, and Dick Baron are battling for the other starting guard position.

# Harriers begin fall workouts

A talented new coach and three returning lettermen from last year's squad are the key assets of this season's Caltech cross-country team.

The harriers started their regular training schedule Tuesday under the direction of Coach Claude Fiddler, a grad student in geology. Coach Fiddler did his undergraduate work at Occidental College, where in 1954 he set a conference track meet record in the two-mile run, covering the distance in 9:25.7.

The returning lettermen, Danny Wulff, Reed Saunders, and Dave Yount, should stay up with the top runners in the conference this year. Danny especially will be looking for a good season, since he has been working out most of the summer.

Last year's varsity squad fared well in the SCC meet, taking second place behind Oxy. In dual meet competition, the Tech harriers placed fourth in the conference. Coach Fiddler's main worry this year will concern getting depth in his squad.

# Nine returning lettermen lead soccer team into 1956 sked

By Brent Banta

With the advent of the smog season, the 1956 soccer practice began in earnest this week. Head coach Charlie Miller will have an extra tough job this year due to a new conference rule which makes a player ineligible after four seasons of play. Without the background of experience provided by the graduate students, Tech will need even more intense practice than in past seasons.

The core of this season's varsity team will consist of last year's returning lettermen. At center forward, Bob Norton will be key man, with last season's wings, Larry Tenn and Steve Mack, setting up the plays. Ed Berry, Rafn Steffanson, Elvis Bedoya, and Jim Ber of exceptional players from south of the border.

Possible prospects from last year's JV squad are Phil Thatcher, George Hall, Dick Dietz, and Kay Sugahara. An especially good bet is Luis Baez, sophomore from Venezuela. His experience and control are exceptional.

The whole league has improved this year, with UCLA and Pomona slated as the teams to beat. The new eligibility rule will no doubt measurably increase Caltech's chances against the largely graduate Bruin team.

A week from tomorrow the team scrimmages a semipro outfit, Pasadena Micron. Micron will field a strong team featuring a number of exceptional players from south of the border and will be favored to win the game. The game will be held at Tournament Park at 10 a.m.

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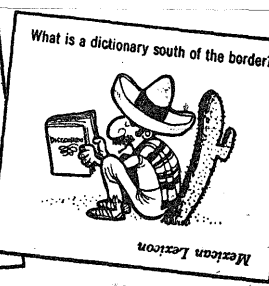
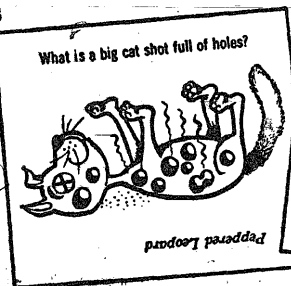
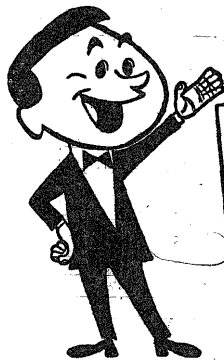
# Polo team to open season tomorrow

Coach Warren Emery's water polo team plays its first game of the season tomorrow after one week of practice; it is a "practice" game against the Caltech alumni. Next Friday the Beavers meet UCLA in what should be their first real test.

Expected to pace the Techmen are returning lettermen Clarke Rees, Vince Taylor, Don Wiberg, Ed Park, and sophomore Bob Blanford.

Last season the Beaver tankers finished in second place in the SCC race, winning nine of thirteen contests. Rees and Taylor, third and fourth in team scoring last year, and Blanford, frosh high point man, will probably bear the burden of the Caltech scoring attack.

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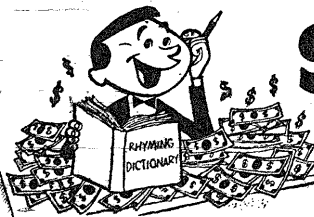
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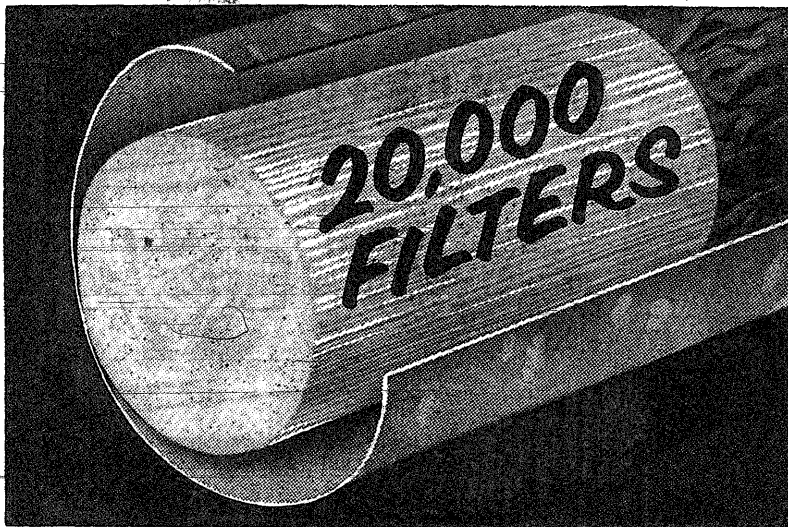
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