

# California Tech

Associated Students of the California Institute of Technology

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Number 22

## Tuition Rates Will Increase in 1962

Annual tuition charges for undergraduate and graduate students at Caltech will be increased from \$1275 to \$1575 beginning 18 months from now (September, 1962), it was announced by President L. A. DuBridge.

The increase was voted by the Board of Trustees, he said, in order to meet steadily rising costs of education at the Institute.

He added that the deferred payment plan now in operation will be adjusted to the new tuition charge and then an effort will be made to increase the number of scholarships available. He said, "It continues to be our aim to see that no qualified undergraduate student shall be excluded from Caltech for financial reasons alone."

## Caltech Glee Club Returns From Tour To Bay Area

The Caltech Glee Club returned last Saturday from its fourth annual tour of the California area. This year's tour consisted of 11 concert engagements in 10 different communities during the course of six days. It started on Sunday, March 19, in San Jacinto, and the last concert was given on Friday evening in the Arlington Church in Berkeley.

The tour is arranged for many reasons, not the least of which is to mold the club into a single, well-sounding unit, a goal that, according to director Olaf Frodsham, was achieved with good results. The Glee Club is fast building the reputation of being one of the top male choruses on the West Coast. The club has a repertoire consisting of works by Brahms, Schubert, Debussy, Palestrina, Paul Creston, Vincent Persichetti, Richard Rodgers and Meredith Willson, among others.

The financial responsibility for the \$1700, which the tour requires, stems from three sources: Tech, ASCIT, and the Glee Club earnings. A typical secular concert will have a guarantee of from \$50 to \$100. In church concerts, a collection is taken, which then goes to the club. The housing in the individual communities is arranged by the local people, affording each of the 54 Glee Club members the chance to be farmed out to a nearby

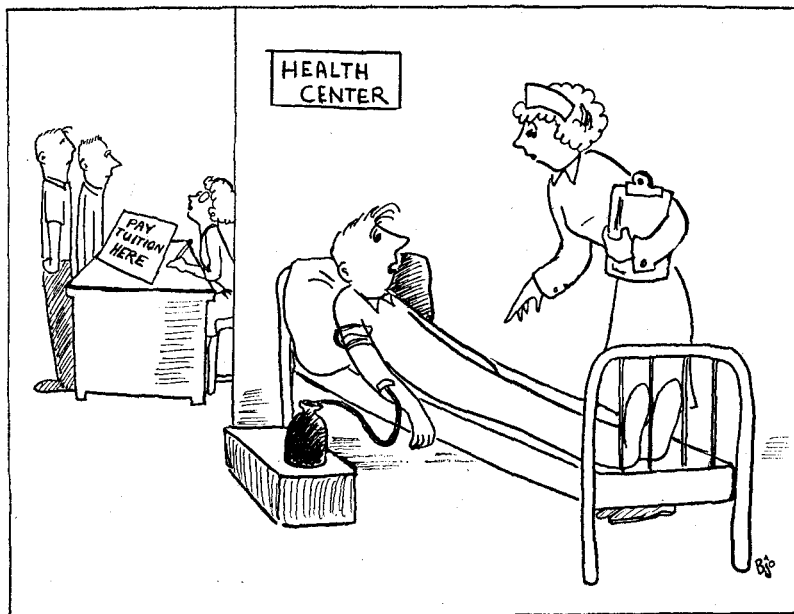
(Continued on page 6)

## Leaders Meet For Training

Newly elected IHC, ASCIT, and YMCA officers will participate in a two-day leadership conference the week end of April 8 at the Circle X Ranch, near Malibu.

Jack Zenger, head of Management Recruitment and Development for Pacific Finance Corp., and Wes Hershey and Al Green of the Caltech Y will guide the discussions and lecture on theories and problems of running campus activities.

More detailed plans are being made this week by four students organizing the week end: Bill Hogan, John Lohman, John Todoroff, and Gary Walla.



"I guess I'll have to defer the rest."

## Option Decisions Draw Near For Frosh; Meetings Soon

Dean Strong strongly urges all freshmen to attend the following option meetings, in which division advisers will discuss various aspects of careers in their fields.

Following the general meetings, students may arrange individual conferences with the option consultants listed below:

### Mathematics:

Thursday, April 6, 11:00 a.m., 206 Dabney.

Consultants: Professors Hall and Fuller.

### Chemistry and Chemical Engineering:

Thursday, April 13, 11:00 a.m., 22 Gates.

Consultants: Professors Anson, Corcoran, and Waser.

### Physics:

Thursday, April 20, 11:00 a.m., 201 Bridge.

Consultants: Professors T. Lauritsen and Leighton.

### Engineering Division: (Met today)

Consultants: Professors Norman Brooks, Charles E. Crede, R. V. Langmuir, G. D. McCann, Rolf Sabersky.

The Registrar's Office must have at least a tentative indication from each freshman of his choice of option by April 25. On about April 18, each freshman will be sent a form on which he will designate his probable choice of option; this form must be returned to the Registrar's Office not later than April 25.

## Margaret Mead To Discuss Sex, Sociology In April

Margaret Mead, the YMCA's second Leader of America this year, will arrive at Caltech April 11 for a three-day round broadening campus culture. During her time here, Dr. Mead will talk about sex, sociology, and a wide variety of other topics. To this end, she will deliver two full-dress lectures, hold several sessions of "office hours" and participate in assorted discussion groups.

Her lectures, to be delivered Monday and Tuesday in Dabney Hall, will deal with the shock of technology on local cultures on Monday, and collegiate sexual-marital problems on Tuesday.

Dr. Mead will also lead three discussion groups, to be held during the afternoons of April 11, 12, and 13 in the Y Lounge, which will deal with the same topics. Sign-up lists are currently posted in the Y for these groups, with a limit of about 15 or 20 students apiece. The Tuesday and Wednesday groups will deal with marital problems; students planning to attend are urged to read "Patterns of Sexual Behavior," by Ford and Beeche, and "Premarital Dating Behavior," by Winston Ehrmann. Copies of these books are available at the Y and they

are also sold as paperbacks.

Besides lectures and discussion groups, Dr. Mead will have contact with students by eating in four of the Houses and by holding office hours, probably in the Lloyd conference room. She will also speak at an Athenaeum Luncheon Forum, and will be the guest of honor at a student-faculty dinner to be held Wednesday evening.

### FCSH Votes 'No Rotation'

The Faculty Committee on Student Houses has voted "that a rotation system should not be used in the Student Houses for the year 1961-62." In a memorandum to the IHC, the Faculty Committee cited, "... the pressure to which a freshman is subjected in a rotation program," and "... the lack of strength of the recommendation by the Interhouse Committee" as factors influencing its decision.

Further consideration "... from the standpoint of the effect on and the benefit to the freshmen" is needed, concluded the memorandum.

## Yale Glee Club Visiting At Tech

Thirty members of the Yale Russian Chorus arrived on campus yesterday, beginning a three-day stay in the Student Houses. Their stay includes opportunities for informal discussions and a concert in Culbertson Hall Friday evening.

The chorus is an informal group of Yale men, undergrads, graduate students and professors, who were brought together by a common interest in Russian culture and Russian affairs. Under the inspiration of Denis Mickiewicz, a Latvian-born student in the Yale School of Music, the group became interested in Russian folksinging and developed into a surprisingly good Russian chorus, which has inspired the admiration of its listeners here and in the Soviet Union.

In 1957 the interest of the members of the choir in Russian culture and politics led to a trip to Russia during which the group sang in squares and public meeting places for all who wanted to listen. Wherever they went the singers greeted with enthusiasm by the Russian people and exposed to a barrage of questions ranging from the price of an American automobile to the latest Western theories of art or music.

The trip was so successful that the chorus returned to Russia in '58, '59, and '60. Although they have been commended for their important role in the United States' people-to-people diplomacy program, the members of the chorus travel each year to Russia as unofficial tourists so that they can meet the Russian people on an informal level.

Their visits to Russia have given the Yale singers an understanding of the customs and thoughts of the Russian people which they attempt to share with their fellow Americans by giving concerts throughout the country.

The chorus' schedule while at Tech has been arranged to give Techmen ample opportunities to talk with the chorus members. Last night the members of the chorus showed films taken in Russia and discussed their impressions of the Russian people and then adjourned to the Student Houses for informal sessions. Tonight the chorus will sing at a dinner given by the local Yale Alumni Clubs and Friday it will give a concert in Culbertson beginning at 8:15. Tickets are available to students for 75 cents in the Student Houses or at the "Y". Others can buy tickets for \$1.50.

## Gordon, Rovainen Elected Y Officers

On Thursday evening, March 2, YMCA members gathered in the Y Lounge to elect their officers for the coming year. About 30 members were present to choose from a slate which had four contested offices. The results of the election are:

President—Barry Gordon

Vice-President—Carl Rovainen

Secretary—Bob Ross

Treasurer—Dick D'Ari

Publicity Manager—Norman Reitz

National Representative—Gerald Chandler

An executive committee is comprised of the elected officers and serves to coordinate many of the YMCA activities. Apart from coordinating activities the Y officers have specific responsibilities. The National Representative is the liaison between the Caltech YMCA and the regional and national organization. He is also required to attend many

conventions of national student organizations. The treasurer has the pleasant task of conducting the student fund drive which is the first and most necessary step in the Y program. The secretary and publicity manager together are responsible for keeping the Y members, the faculty, and student body posted on the current facets of the Y programs. The president and vice-president are primarily responsible for the over-all student participation in the Y program. With Barry Gordon and Carl Rovainen to fill these positions, the YMCA looks forward to a year of successful service to the Caltech student body.

## Radoy, Moore Lead Fleming

The election of House officers for the year 1961-1962 was finally completed with the voting in Fleming House. The results of the March 9 balloting are:

President—Charles Radoy

Vice-President—Robert Moore

Social Chairmen: John Russ, Terrence Wogan

Secretary—William Weihofen

Treasurer—Robert Lin

Athletic Chairmen: Robert Gershman, Robert Williams

Librarian—Frank Rhame

## Fittings Taken For Athletes

The Whiting & Company representatives will be in Dabney House Lounge, Wednesday, April 5, at 7:30 p.m., to take measurements for jackets, sweaters and blankets. All Techmen out for baseball, swimming, track, tennis, and golf are asked to be there promptly at 7:30.

Editorial:

# Rotation

The Editors do have some points to make concerning the recent decision of the Faculty Committee on Student Houses against rotation next year. However, as we believe a fair presentation will require more "investigation time" than was available within this issue's schedule, we will withhold comment until next week.

—abell  
benson  
molho

## Gratia Artis

reviews by bob poe

It is nothing new or startling to this campus that foreign films are better than Hollywood products. While the local moguls keeps their assembly lines busy feeding their vast sub-teen market, the European companies turn out, with reasonable consistency, sparkling little gems of high comedy, low comedy, drama, and romance.

It is no surprise, then, that Caltech has welcomed to its

manly bosom the recent Greek flick, "Never on Sunday." And the welcome is well deserved, for "Never on Sunday" is a kind of Mediterranean "Born Yesterday": the tried and proven Judy Holliday plot is retreated with the characteristic European flair for slapstick and earthy vitality. The product, of course, is a pure delight.

In brief, Melina Mercouri por-

(Continued on page 3)

## a hand of BRIDGE

By Bill Tivol

### NORTH

S—K 9 3  
H—K Q J 10 6  
D—K J 7  
C—A 2

### EAST

S—Q 10 5 4  
H—9 8 3  
D—A Q 10 6  
C—5 3

### SOUTH

S—J 2  
H—7  
D—9 8  
C—K Q J 10 9 8 7 6

South dealer. North-South vulnerable.

South	West	North	East
4C	Pass	5C	Pass
Pass	Pass		

Opening lead: five of diamonds.

The last column illustrated how conventional trick-count may fall short of the actual worth of a hand. This hand shows the opposite. South's vulnerable pre-empt is sound, for, if his partner has nothing, his opponents have a slam. North, however, was too proud of his hand. He saw one trick for the ace of clubs, one for the pair of unguarded kings, and one or two for the hearts. Thus, content that even if his partner's bid was a little shaky the game was cold, he bid five clubs. North should not count quick tricks; he should count losers. It is highly unlikely that South has an outside ace for his pre-empt. If South has a void, it is probably in hearts. North can then easily see three losers: the aces, or if South is void in hearts, two aces and one queen. South will eventually get two quick tricks from the North hand, but he will be down two almost before he starts.

The moral is that losers are as important as winners. Count both before raising your partner's pre-empt.

## Letter To The Editor

### HUAC Riot Records Available

Editors:

It may be of interest to many of the students who attended the recent showing of "Operation Abolition," where Irving Hall presented the case against the film and for the students involved in the San Francisco disturbance, to know that the student political party SLATE at Cal Berkeley has a 12-inch 33LP recording available on the subject at a low cost of \$2.00. The record entitled "Sounds of Protest" gives the complete story of the San Francisco student protest against the HUAC, including the Friday afternoon disturbance. The recording includes tapes from newsmen who were recording at the scene, and it is accompanied by a printed analysis of the protest and disturbance written by

Robert H. K. Walter, a member of the California Bar. Copies of the recording may be obtained at \$2.00 each or three for \$5.00 from SLATE, P.O. Box 893, Berkeley 1, Calif.

Karl Knapp  
Class of '59 and ME  
Grad Student

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## 3 Named As Wilson Fellows

Three Caltech students have been named Woodrow Wilson Fellows for the year 1961-1962. They are among 1333 students from 381 colleges and universities throughout the United States and Canada.

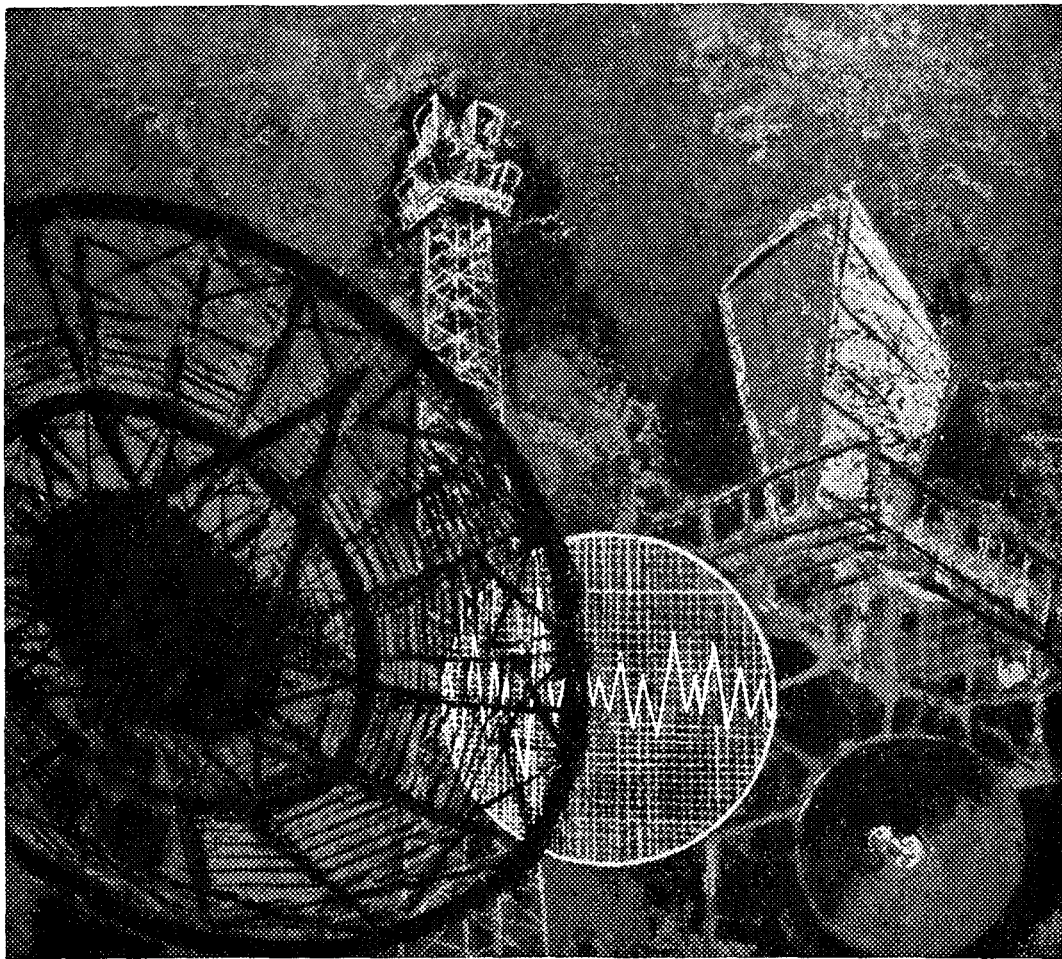
Caltech winners are: Bill Bauer, chemistry; Larry Brown, mathematics; and Richard Foster, mathematics. An honorable mention was awarded to Michael Schwab, physics.

This year saw the largest number of awards in the program's 15-year history.

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## Musical Notes

### EAST, WEST COASTS INFLUENCE JAZZ



BY BARRY MORITZ

Every so often, if not more so, a certain question floats around jazz circles, as will be verified by the men of one of our industrious Student Houses. The main point is the so-called controversial "continental divide" of American jazz. Just what is it, really, and does the terminology East Coast and West Coast Jazz have any real meaning?

Perhaps, just a few years ago, these terms would have had valid and just cause for existence. Today, however, in the time of nation-wide jazz tours, jets, hi-fi tapes and records, video, and improved audio, the meanings of these terms have lost their identities. It might at this time be best to consider these geographical zones as schools, comparing them as one might compare the Ivy League with Tech, for example.

When we compare a West Coast man such as Art Pepper with an East Coaster such as Sonny Rollins, we can hardly compare them on an interpretation or musical basis, but must refer instead to their initial schooling.

Although there remain a few certain characteristics that are referred to as Eastern or Western, the nationwide trend toward mobilization of artists has caused each school to borrow from the other. An arranger such as Quincy Jones (East Coast) uses basically the same chords, progressions, and orchestrations as Marty Paitch (L.A.). Similarly, Jazzbo Dizzy Gillespie finds his hard-swinging counterpart in the West's Shorty Rogers.

So what are we to conclude? Most simply that a few years ago the East Coast and West Coast were separated by a difference of interpretation. The East Coast was the sledge-hammer, driving jazz, while the West Coast depended on harmonic chords and fugues (Gerry Mulligan). Today, however, in most all cases we see the influence one group has on the other. There is no longer a solid Continental Divide, but only two schools, in which we find registered musicians of both sides of the country.

Usually, however, words cannot convey the meaning of jazz half as well as the music itself; so, I would like to list a few comparative tests that can be made with various artists, showing the various characteristics of the two schools.

A good, highly recommended album on Riverside is *The Can-*

*nonball Adderly Quintet at the Lighthouse.* Cannon ball and his brother Nat date back in jazz to the Village Vanguard in New York and various Philly hang-outs. The things to listen for in this album, besides just sitting back and enjoying some very tasty jazz, are in "Azul Serape," an original by the English pianist Vic Feldman. "Azul Serape" is characterized by the hard-swinging drive and the exotic chord progressions that mark the marriage of the two schools.

The West Coast drive is found in Shorty Roger's *Express* album on RCA. The Eastern influence is shown particularly in "Home With Sweets," despite the fact that the personnel of the band includes such Western greats as Shelly Manne, Jimmy Giuffre, Shorty, and Milt Bernhardt. "Sweets" is Harry "Sweets" Edison, mainstay of New York's famous Birdland for years and former trumpeter with the Basie band. Sweets can be heard on the cut.

Big news on the current Los Angeles jazz scene is the Art Farmer — Benny Golson Jazztet (of "Killer Joe" fame) at the Zebra Lounge. Highly recommended. Also, Ben Webster can be found at the Renaissance, and Terry Gibbs' big, if sloppy, band at the Summit. For the Miles Davis fans, there is a concert scheduled at the Shrine Auditorium tomorrow night.

'Snuff for now. Above all, it would be much appreciated if we could hear a bit from you all on what you want to hear about — current record reviews, news about who's who in jazz and who's where in L.A., or comments and ideas, like today's expose. Right now, a little of each is planned, so if any ideas are available, let us know.

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## Brewins

### POP PERFORMS; ENGINEER ENVIUS

Picking up date in borrowed car, troll fumbles with ring to find ignition key. After many trials correct key is located, inserted in lock, but doesn't turn same. Futile efforts of jiggling and two hand grips produced no better results. Skirt's father, coming to rescue, in one easy motion flicks key and starts motor. Troll too red-faced to expound on mechanical abilities.

### ELVIS EMIGRATES; TAKES TREASURES

Boy tough frosh makes scene by borrowing records, books, and money few days before spring break. Even has friends get money from friendly Y. Last heard from in Great Nook, N.Y. Plans do not include return to Tech.

### WINGS WEAK; OWL HOWLS

Birdman Solly, remembered for familiarity with second-story ledge on old Student

House, seen up to old tricks on second level of Throop Hall. Carried away with sport, Solly makes like bird but flies not. Spectators carry defeathered fiend to sick-bay.

### TIMING TERRIBLE; JOB JINXED

Floyd twitch's serene meditation is broken by realization that job interview had begun some 10 minutes before. After record three-minute changes from grubsville to suit and dash to placement office, he finds that he still has plenty of time. In fact, he is just 13 minutes short of being exactly seven days early. Twitch last seen puzzling over mysteries of Gregorian calendar.

### SLEEP SOOTHES WHILE WENCH WISTS

Random Phlegm's daily life made miserable by lack of loved one who resides many miles away. Daily letter hardly seems to help. Unable to return home

for spring break, hero collapses into despondent sleep. Helpful housemates rouse him from same and deliver his sleepy frame to RA's suite. There he enacts all-time classic twitch as he discovers that in true hearts and flowers fashion, troops had brought his quail to him.

## Gratia Artis

(Continued from page 2)

trays a zestful, lowbrow, free-lance prostitute in Piraeus, the port of Athens. An American philosopher (Jules Dassin), who is visiting Greece with the aim of discovering the cause of the decline in its ancient civilization, is struck by the prostitute's unused intellectual potential; he educates her, enlightens her, and shows her the error of her former ways. Of course, the result is satisfactory to no one, and the former state of affairs is joyously restored in a wild fi-

(Continued on page 5)



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## frets and frails

### Source Books Worth Perusal

BY JOHN D. CROSSMAN

The amateur folksinger at Tech must rely on outside sources for inspiration and new material. Records are one good source, not only for the songs themselves but also for the instrumental techniques that seem to be so important to the modern folksinger.

However, to gain a large repertoire from recordings requires an immense investment in records, not to mention the equipment to play them on.

So one is forced to turn to folk music books. There are several cheap paper-back folk-song collections that are worth mentioning. Perhaps the best known around Tech is Dick and Beth Best's *Song Fest*. Selling for \$1.95, *Song Fest* has a number of good folk songs sandwiched among the Sunday School Camp songs.

Selling for 50 cents in the Berkeley Medallion Edition (and for more in other editions) is *Folksing*. The 150 songs in this collection include many of the Weavers favorites such as: Follow the Drinkin' Gourd and Lonesome Traveler.

The *Burl Ives Song Book* and *Burl Ives Sea Songs*, both Ballantine books, and both cheap, contain a large number of good, singable songs, the former having piano arrangements if you are interested. Unfortunately, a number have been written in easy keys for the piano, Eb and Bb, which, as any guitarist will tell you, are hell on the guitar. Of course, you can transpose to a more useful key like E or C.

Along this line, I have found a real simple scheme for transposing songs. Called the chain of chords, it goes like this:

C  
F      G  
Bb     D  
Eb     A  
Ab     E  
Db     B  
F#

To transpose all you have to know is that the chain of chords is symmetric around each chord. For example, if you want to transpose from Ab to C, every Ab chord will obviously become a C chord, an Eb chord (one clockwise of Ab) becomes a G (one clockwise of C), etc., etc.

Two more paperback folksong

collections, not so well known but very good, are *The People's Song Book* and *Lift Every Voice*.

The best available sources for the amateur folksinger, however, are two hard-bound (and expensive) books by members of the famous folksong-collecting Lomaxes.

The first, by John and Alan Lomax, is *Folk Song U.S.A.* The prominent folksingers of the last decade, like the Weavers, Pete Seegers and the Kingston Trio, have relied heavily on this volume for their material. It represents a lot of original research, but the songs for the most part are well known now because of this book's great popularity among the professional folksingers.

For this reason, I will recommend more strongly the new work by Alan Lomax, *The Folksongs of North America*. The new volume has three times as many songs (300) and costs only 75 per cent as much (\$7.50) as the older work. The songs are for the most part new, and a great number are in modal minor modes (which I personally find fascinating). As an added attraction, each song is keyed to an appendix which names and describes an appropriate guitar or five-string banjo strum to use with the particular song. The appendices are excerpts from Alan Lomax and Peggy Seeger's *Folk Guitar* instruction book and Peggy Seeger's *The Five-String Banjo*. Both are good books but a little off the subject. In summary, a number of good folk-song books are available to the interested amateur folksinger (many more than I have mentioned here) and they offer one of the best ways of building a repertoire.

### THE CAMPUS BARBER SHOP

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## Ruddock Heads IH Football Standings

BY PETE FORD

Lloyd meets Blacker today in the first interhouse football game of the term. Tomorrow Dabney plays Fleming. At the present time, Ruddock and Page are undefeated, but Page has tied once. The standings are:

Ruddock	3	0	0
Page	2	0	1
Ricketts	2	1	0
Lloyd	1	1	0
Dabney	1	2	0

Blacker	0	2	1
Fleming	0	3	0

On the strength of Page's recent victory over Dabney (18-12), it looks as if Page has the best team. It lists an impressive array of intercollegiate players and has received stand-out performances from Ed Evans, Bob Koh, Jerry Clough, and Mike Perlman. Page in the past has had trouble with teamwork but appears to be working this out.

Ruddock and Page play Tuesday in what will probably be the most important game of the season. It should be a very good game and quite close. Ruddock has an outstanding player in Steve Gorman and an all-round, hard-hitting team. The winner of this game will probably take the championship.

Dabney forfeited their game with Ricketts because they used an ineligible man. Although Ricketts stands an outside chance for a tie for first place, it is very unlikely that they will defeat Page.

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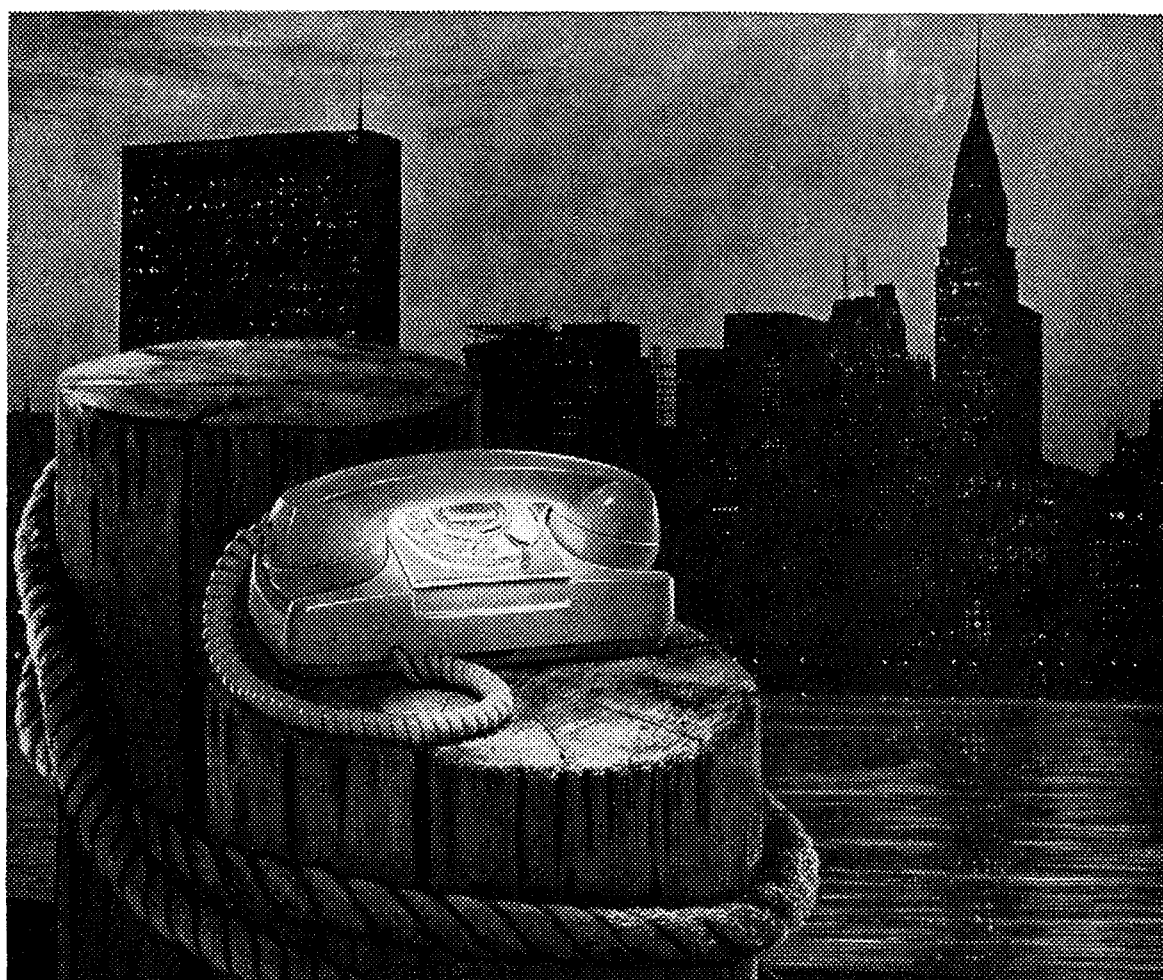
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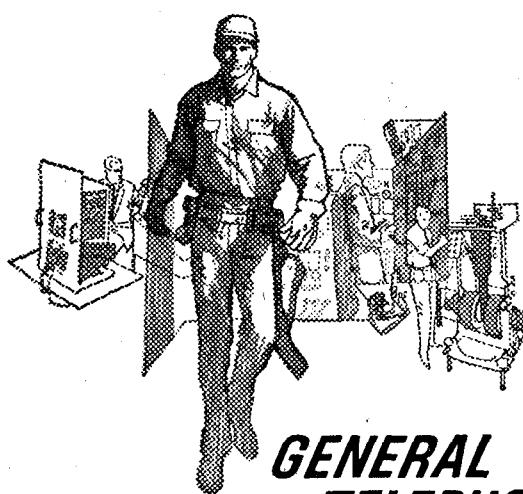
The dial of our compact STARLITE\* phone, for example, utilizes an entirely new source of light that marks a milestone in visual communications. Called PANELESCENT® (electroluminescent) lighting, it produces light without heat, has no bulb to turn on and off, and costs less than 1¢ a year for electricity.

Pioneered and developed by the Lighting Products Division of our subsidiary, Sylvania, this dramatic new light opens up almost infinite product possibilities in sight communication. Already it is being used for clock faces, radio dials, auto instrument panels and road signs.

And, through the development of an ingenious "cross-grid" design, electroluminescent panels are now capable of reproducing alpha-numeric "read-outs" for electronic computers. This achievement, in fact, may one day lead to "flat wall" TV.

It is another example of the way General Telephone & Electronics coordinates the scientific and engineering leadership of many divisions in order to make communications progress on all fronts.

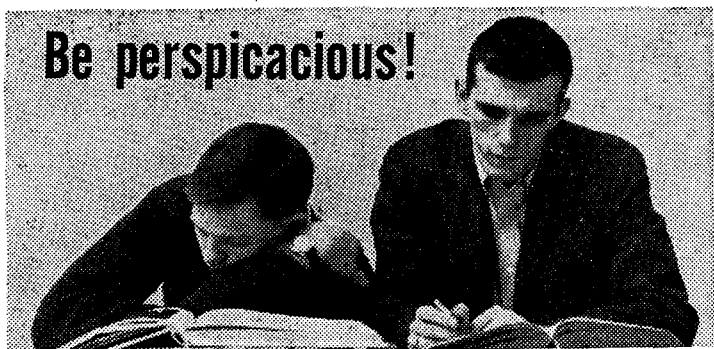
\*Trade Mark



**GENERAL  
TELEPHONE & ELECTRONICS**



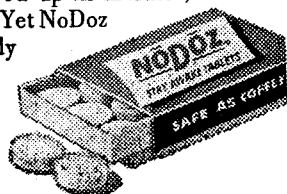
## Be perspicacious!



Not this: a student who  
drowns over books no matter  
how much sleep he gets.

This: perspicacious...  
sharp! NoDoz keeps you  
awake and alert—safely!

If you sometimes find studying soporific (and who doesn't?), the word to remember is NoDoz.® NoDoz perks you up in minutes, with the same safe awakener found in coffee or tea. Yet NoDoz is faster, handier, more reliable. Absolutely non-habit-forming, NoDoz is sold everywhere without prescription. So, to keep perspicacious during study and exams—and while driving, too—always keep NoDoz in proximity.



The safe stay awake tablet—available everywhere. Another fine product of Grove Laboratories.

# Baseball Prospects Not Bright; Team Beaten On Road Trip

BY BOB LIEBERMANN

On Tuesday, March 28, Coach Ed Preisler's varsity baseball team took the field in their first conference game with Claremont-Harvey Mudd. The outlook for the coming season is rather bleak and the morale of the team is low, but the squad is improving steadily and by the end of the season should develop into a cohesive and balanced unit. It will be difficult to fill the gaps left by graduation last year. However, several men up from last year's frosh team show promise and Bill Palke has stepped into the catching slot.

The diamond nine has just completed a four-day road trip to the San Diego area over spring vacation. They opened the trip with a game at the Naval Training Center. The NTC team, bolstered by a recruited Air Force pitcher, won handily, 13-2. Dave Barker, sophomore hurler, pitched his first varsity game for Tech. On the follow-

ing day, the Techmen lost, 14-0, to Cal Western with Marty Hoffman handling the mound chores. On Friday, catcher Bill Palke took the mound against NTC in order to give Coach Preisler's beleaguered and scant pitching core a brief respite. The Sailors again emerged victorious, 9-5. On Saturday, Barker held the Naval bats silent for six innings; long enough for the Beavers to build up a substantial lead and win, 16-6. The Tech team garnered nine hits, their largest game output thus far this season.

The road trip was not a success in the victory column, but the games provided Coach Preisler with an opportunity to experiment with various line-ups and the players a chance to gain valuable experience working together as a unit.

John Arndt and Skip Stenbit, lettermen from last year's varsity, led the team in hitting on the San Diego trip; Stenbit was

one of the leading home-run sluggers in the conference last season and his big bat is counted on heavily this year. The team was handicapped last week by the absence of Captain Buzz Merrill from the line-up. Merrill, one of the team's leading hitters and a stalwart of the pitching staff, is expected to return to the starting line-up if his pulled muscle responds to treatment. Despite the ominous beginning, there is still plenty of fight and spirit extant in the Beaver nine.

## ALVIN'S Photo Supplies

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## Gratia Artis

(Continued from page 3)

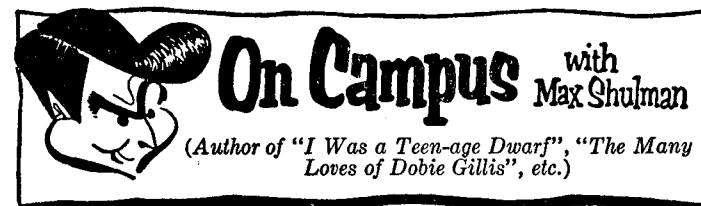
nale, with the American losing a few of his scruples.

What sets this film apart from a good Hollywood comedy? First, "Never on Sunday" is peopled by human beings such as one might well expect to meet in the streets and bars of Piraeus. The characters in an American movie, even if played by very good actors, still look and behave like very good movie actors.

Secondly, the picture comes to life with a host of zestful, realistic, physical actions. When-

ever the screen shows a mob of people, joyous or enraged, a feeling of unbounded vitality is created by the welter of interesting detail. Each character is master of his own individual assignment; he never loses his identity to the mob. And so the unrestrained dances and fights in the cafe, the aquatic orgies, the revolt of the prostitutes . . . all become masterpieces of physical movement.

And finally, "Never on Sunday" manages to deal with the juicy subject of prostitution with neither the drooling leer of the expose nor the long, sincere face of the social document.



## On Campus with Max Shulman

(Author of "I Was a Teen-age Dwarf", "The Many Loves of Dobie Gillis", etc.)

### BOOM!

Today, foregoing levity, let us turn our keen young minds to the No. 1 problem facing American colleges today: the population explosion. Only last week four people exploded in Cleveland, Ohio—one of them while carrying a plate of soup. In case you're thinking such a thing couldn't happen anywhere but in Cleveland, let me tell you there were also two other cases last week—a 45 year old man in Provo, Utah, and a 19 year old girl in Bangor, Maine—and in addition there was a near-miss in Klamath Falls, Oregon—an eight year old boy who was saved only by the quick thinking of his cat Walter who pushed the phone off the hook with his muzzle and dialled the department of weights and measures. (It would perhaps have made more sense for Walter to dial the fire department, but one can hardly expect a cat to summon a fire engine which is followed by a Dalmatian, can one?)



I bring up the population explosion not to alarm you, for I feel certain that science will ultimately solve the problem. After all, has not science in recent years brought us such marvels as the transistor, the computer, the bevatron, and the Marlboro filter? Oh, what a saga of science was the discovery of the Marlboro filter! Oh, what a heart-rending epic of endless trial and error, of dedication and perseverance! And, in the end, what a triumph it was when the Marlboro scientists after years of testing and discarding one filter material after another—iron, nickel, lead, tin, antimony, sponge cake—finally emerged, tired but happy, from their laboratory, carrying in their hands the perfect filter cigarette! What rejoicing there was that day! Indeed, what rejoicing there still is whenever we light a Marlboro and settle back and enjoy that full-flavored smoke which comes to us in soft pack or flip-top box at tobacco counters in all fifty states and Cleveland!

Yes, science will ultimately solve the problems rising out of the population explosion, but in the meantime the problems hang heavy over America's colleges. This year will bring history's greatest rush of high school graduates. Where will we find classrooms and teachers for this gigantic new influx?

Well sir, some say the answer is to adopt the trimester system. This system, now in use at many colleges, eliminates summer vacations, has three semesters per annum instead of two, and compresses a four year course into three years.

This is good, but is it good enough? Even under the trimester system the student has occasional days off. Moreover his nights are utterly wasted in sleeping. Is this the kind of all-out attack that is indicated?

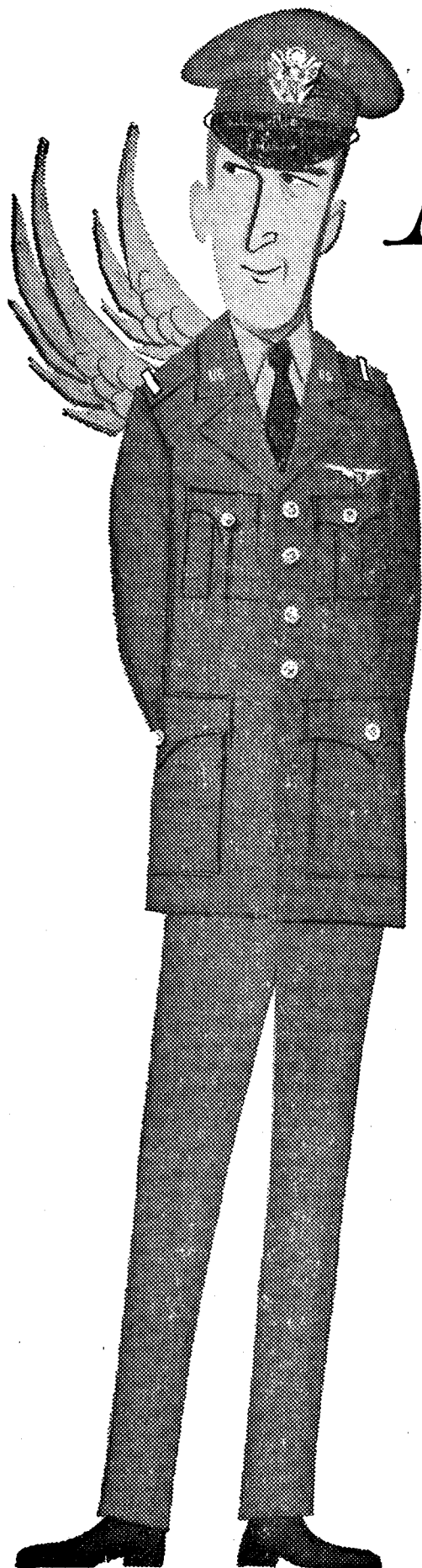
I say no. I say desperate problems call for desperate remedies. I say that partial measures will not solve this crisis. I say we must do no less than go to school every single day of the year. But that is not all. I say we must go to school 24 hours of every day!

The benefits of such a program are, of course, obvious. First of all, the classroom shortage will immediately disappear because all the dormitories can be converted into classrooms. Second, the teacher shortage will immediately disappear because all the night watchmen can be put to work teaching calculus and Middle English poetry. And finally, overcrowding will immediately disappear because everyone will quit school.

Any further questions?

© 1961 Max Shulman

Yes, one further question: Have you tried Marlboro's newest partner in pleasure—the unfiltered, king-size Philip Morris Commander? If not, by all means come aboard. You'll be glad you did.



## Do all Air Force Officers have Wings?

**Decidedly not.** In fact most executive jobs are on the ground. Of course, all officers may apply for pilot and navigator training if they meet the eligibility requirements. There will always be a need for piloted aircraft. And it is foreseeable that in your working lifetime, there will be piloted spacecraft—piloted and navigated by Air Force officers.

But right now, there is also a big future for college-trained Air Force officers on the ground. New and exciting technical jobs are opening up. Important administrative positions must be filled as World War II officers move into retirement.

**How can you—a college student—become an Air Force officer?** First, there's Air Force ROTC. Then for college graduates, men and women in certain fields, there is Officer Training School. The graduate of its three-month course wins a commission as a second lieutenant. Other ways are the Navigator Training program, and the Air Force Academy.

**Some benefits that go with being an Air Force officer.** Starting salary plus allowances compare with the average in equivalent civilian jobs. Then there's free medical and dental care, thirty-day vacation, the chance to win graduate degrees at Air Force expense, and liberal retirement provisions.

No, Air Force officers do not need wings to move up. There's plenty doing on the ground. Perhaps you could be one of these young executives in blue. Ask your local Air Force Recruiter. Or write, **Officer Career Information, Dept. SC13, Box 7608, Washington 4, D.C.,** if you want further information about the navigator training or Officer Training School programs.

## U.S. Air Force

There's a place for professional achievement on the Aerospace Team

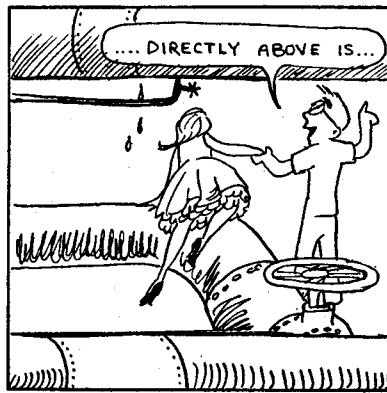
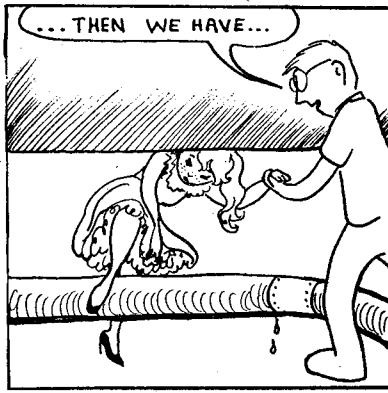


# CAL TECH

...by Bjo

## Caltech Glee Club

(Continued from page 1)



## YMCA Presents Red China Speaker

Frank Pestana, a prominent lawyer of Hollywood, will speak to the Diners' Club next Mon-

day on Red China. Aided by slides, Mr. Pestana will describe the six weeks he spent behind the bamboo curtain. As he is one of the last Americans to travel in this area, his visit to our campus will provide inter-

ested students with a rare opportunity to have their questions answered.

Pestana, who received his law degree from Berkeley in 1939, was a lawyer for the Fair Employment Practices Commission

until he entered private practice. Because of his travel he has currently been in strong demand to speak to various private groups.

The Diners' Club is a pro-

family.

Last Sunday, after completion of the tour, the Glee Club sang for the opening of the Music Educators National Conference in the Santa Monica Civic Auditorium. After several more concerts in the near future, their next appearance on the Tech campus will be the spring concert, May 5 and 6 in Culbertson

gram devoted to combining the views of leading Southern Californians with a Chandler meal complete with hot fudge sundae. The meal is free to undergraduate members of the Student Houses.



## It grows almost like Jack's beanstalk

To him, it's amazing. To teeming millions in crowded areas of the world, it's a new source of hope — of better food, a richer life.

For in food crops, astonishing *new* growth is being released by the green thumb of science.

One striking development in agriculture, for instance, is plant foods created by the people of Standard's ORTHO Division.

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Imagine what advances like these can mean to the peoples of other free world nations. Our field men see it... working with farmers and the land in 70 countries. Poor soil becomes fertile; plants become rich in nourishment.

And this has a larger meaning... more food brings more vitality to peoples of crowded lands, a stronger economy... a healthier soil for the growth of freedom.

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