

## Dean Acheson Visits Campus Last Term

Former Secretary of State, Dean Acheson, visited the Caltech campus on March 7 and 8, a visit he was forced to cancel last October due to the Cuban crisis. He was sent as President Kennedy's personal emissary to discuss the situation with President De Gaulle, Chancellor Adenauer, and the North Atlantic Council.

During his visit, Acheson met with a class on foreign policy, dined with various groups of students and faculty members, held a faculty seminar on arms control, and gave a dinner address before the California Institute Associates.

### Major Address

Acheson gave his major address Thursday night, March 7, in Culbertson Hall. The Former Secretary of State under President Truman, from 1949 to 1953, who headed the advisory group to the North Atlantic Treaty Organization in 1961, discussed "The Obstacles to Partnership in Europe."

Acheson limited his discussion to the obstacles to American military partnership with Europe. He pointed out that there exist three major obstacles to the extension of the present position of NATO into a real military partnership. In actuality, the present treaty relies almost completely upon American military might for European defense. Thus, it is no partnership; this is obstacle No. 1.

Obstacle No. 2 is the lack of a realistic defense plan. Acheson maintained that the non-nuclear force in Europe must be increased in both size and importance. This force would serve Europe as the conventional defense, nuclear strategic forces serving more as a secondary alternative. This plan would make the European powers equal powers and would require Russia to make the decision of initiating nuclear war.

Acheson then discussed obstacle No. 3, the absence of a

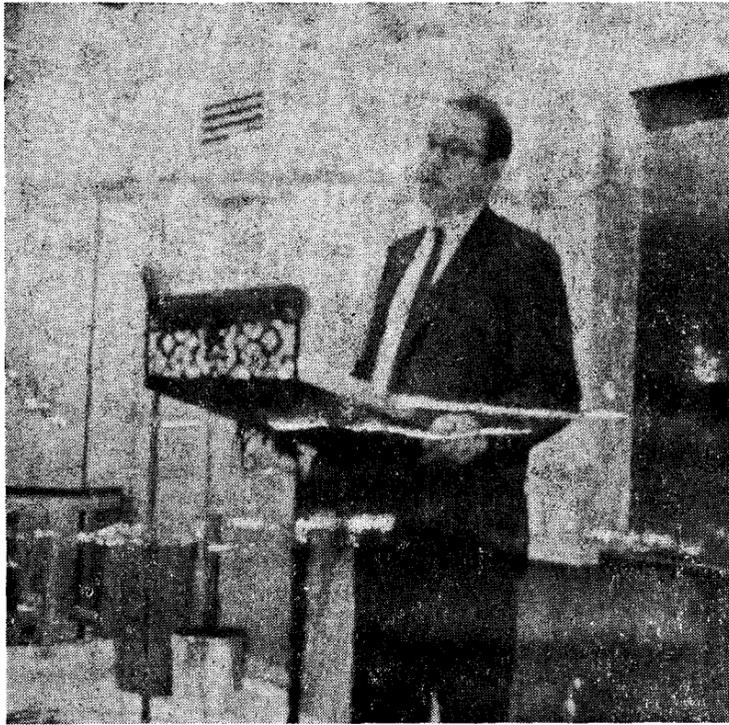
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## BOD Talks On Concert Plans

Planning a possible concert and discussing the proposal of a trip to Catalina for Lost Weekend were the major topics of interest at last Monday's BOD meeting. In other action, the Board agreed to pay for the first three coffee hours, announced applications for appointive offices (see Notices), and mentioned the New Lost City Ramblers concert yesterday.

There was considerable discussion about the several proposals for concerts presented to the BOD. The Paul Winters Sextet had agreed to present a concert in Culbertson for \$550 or at Pasadena High auditorium for \$1100, but seemed to have backed out on the first offer. The Board approved to offer them their first alternative, a concert in Culbertson, followed by a profit sharing proposal for the Pasadena High concert designed to

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—photo by Ken Brown

William Sloan Coffin, Yale Chaplain and freedom rider, spoke in Winnett last Tuesday evening.

## 'Lost City Ramblers' Presented In Concert

A folksing group, the New Lost City Ramblers presented a concert on Wednesday, March 27, at the assembly hour in Dabney Hall Lounge. The concert was sponsored by the ASCIT Assembly Committee.

The trio began by playing "The Black Mountain Blues." Next they sang "River Train." They said that the music that is now referred to as folk music was popular in the 1920's and 1930's under the name of hill-billy music. They also mentioned that they would be appearing at the Ash Grove along with Maybelle Carter from April 12 to 21. Miss Carter's family sang in the early days of folksinging groups.

### Program Content

Their program included the song "Worried Man Blues" and a ballad by Al Lomax entitled "First Through the Country." With banjo accompaniment one member of the group sang "Danville Girl," which he had found on an old record. With the

## Two Students Selected For MIT Meetings

Two Caltech students, Don O'Hara and Henry Abarbanel, have been selected as delegates to a four-day MIT Intercollegiate Conference, April 3-6. This conference is being attended by college undergraduates from all parts of the country. The delegates will meet with MIT students for a discussion of the topic, "The Federal Government — How Much?"

The role of the Federal Government will be examined in three specific areas: with regard to economic growth and stability, scientific research, and labor-management relations. The conference has been divided into

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rhythm beat of a pair of spoons the trio did a rendition of "Hawkins Rag." In blue grass style they sang "Ramblers Blues" and "Poison in a Glass of Wine," an old song of love and death.

The group specialized in stringed instruments, including the banjo, guitar, and fiddle. Two members did a skit in which one portrayed a traveller from the big city talking to a Arkansas farmer on a front porch. While playing their instruments they exchanged short comments and puns.

In encore they did "Orange Blossom Special," and "When I'm Gone." This is the second time the New Lost City Ramblers have appeared at Caltech. They performed last year in the assembly series.

## Negro Problems To Be Heard

"America's Emerging Tenth," a discussion series dealing in the problems of the American Negro, continues with the discussion topic, "How Prejudice Works," at the Y Lounge tonight at 7:30 p.m.

An article containing excerpts from the Anti-Defamation League pamphlet, "The Bigot in Our Midst," is available from the Caltech Y office for advance reading. The discussion series is still open to anyone who wants to participate.

The Avalon Project, service projects in which Caltech students contribute to the education of intelligent but "uneducated" Negro children at the Avalon Community Center in one of the Negro "slum" areas of Los Angeles, is open to participants. Now several Caltech students are helping sixth grade children in science projects. Anyone who wishes to participate should meet in the "Y" office 9 a.m., Saturday, March 30.

## Coffin Discusses Racial Problems

Last Tuesday night in Winnett Center Lounge, the Caltech YMCA presented an address entitled "Reflections on the Race Problem" given by William Sloane Coffin, Jr. Besides serving as the Chaplain of Yale University, Coffin was one of the twelve ministers arrested last year in Mississippi while serving as "freedom riders" in the South. He recently served as a Peace Corps instructor for a Corps group destined for Puerto Rico.

Coffin began his lecture with a denial that the problem may be logically approached from the atheistic viewpoint. Such an attempt must fail when the question of human dignity arises. When approached from the Christian viewpoint, however, this question offers no difficulty. For to the Christian, "human dignity is something bestowed" and not something to be earned. Thus, anything which profanes the sanctity of human dignity, including racial discrimination, thereby becomes a blasphemy against God.

### Roots of Prejudice

In searching for the roots of racial prejudice, Coffin stated that there exist two current schools of thought. The first maintains that the source of prejudice lies in the structure of society itself, while the second contends that prejudice is due the inherent nature of man.

The roots of prejudice Coffin found to be in man's innate feeling of insecurity, for man derives a sense of security and power from a belief in the superiority of race. "Education is

## Y Schedules New Forums

The Caltech YMCA has released a list of this term's upcoming Dinner Forums, which are held weekly at 8:30 Wednesday evenings in Chandler.

April 3 will see Dr. Kenneth Eels, the Institute psychologist, speaking on "Common Psychological Problems of Caltech Students." On April 10, Mr. John Atkins, Caltech's sole anthropology instructor, will present his hypothesis on "Caltech as a Sociological Phenomena." The next week, two members of the L.A. "CORE" Action Committee will discuss "CORE and the Method of Direct Action." Midterms week will feature Dr. Alan Sweezy, professor of economics at Caltech, on "Economic Implications of General Disarmament."

The last two programs of the term will feature Dr. Bernice Eiduson, Director of Research at the Reiss-Davis Clinic in Los Angeles, speaking on "Scientists and their Psychological World," on May 15, and, on May 22, Mr. Stuart Innert of the American Friends Service Committee on "The Warfare State — Is it With Us?"

To attend these Dinner Forums, sign the list which will be placed on each House bulletin board before 12:45 of the day of the Forum. Undergraduate meals are transferred. Graduate students are also welcome.

not enough, for man's love of truth is secondary to his fear of truth." Though Coffin asserted that the problem is largely one of individual morality, he emphasized the importance of environmental influences upon man's behavior. "You cannot legislate morality, but you can legislate conditions more conducive to morality."

### Negro Restrictions

The Negro is faced with a society that restricts him to mediocre conditions and then chastises him for living in squalor, presents him with inferior educational opportunities and then conducts tests to demonstrate his lower mentality, offers his children insufficient recreational facilities and then objects when they get into trouble, pays him unequal wages for equal work and then decries his lack of initiative, and backs him into a stagnant existence and then deplores the rebellion which follows.

The pertinent question, he concluded, is what action should the individual take when confronted by the prejudice which taints his society? He pointed out that the exclusiveness of the fraternity and country-club atmosphere fosters much of the racial discrimination that exists in America today. While man certainly possesses the legal right to exclude groups from his associations, in so doing he is committing an offense against human dignity.

The problem exists also in the professional world, where the graduating college student comes into close contact with racial prejudice. He pointed out that, among law firms outside the Negro community, only five in the entire country have accepted Negroes as junior partners. The heaviest responsibility lies with the educated, who must accept the burden of leadership by expressing the strongest disapproval of this kind of policy.

## Notices

### I.E.E.E. TO ORGANIZE

Any student who is interested in becoming an officer in the Caltech student I.E.E.E. should contact Dr. Langmuir, who is the faculty sponsor of the organization.

### HOW MUCH?

For those who are interested, with the number of ads in this week's *Tech*, finances from subscriptions and advertising are still insufficient to pay for the issue.

### APPOINTIVE OFFICES

Applications for ASCIT appointive offices are still open and will remain open at least until next Monday evening. Those offices with insufficient nominees at this writing include Students' Day chairman, Excomm, Darkroom chairman, Election Committee, Yell Leader, Assembly Committee, and EPC. Submit applications in writing to the "H" box in Ruddock.

### ASCIT PLAY TRY-OUTS

Casting for this year's ASCIT play, Shaw's "Man and Superman," will begin this Sunday from 2 to 5 p.m. in Dabney Lounge. Casting will also be held at 7:30 Monday night in Dabney Lounge. All those interested in acting or being technicians should come.

Editorials

# Watch Us Grow

After our resounding victory in the ASCIT elections, we, the new Editors of the **California Tech**, wish to salute the wise discretion of the Caltech Student Body. It is our desire and purpose to continue the splendid tradition of conscientious service which the **Tech** has given its community. Any endeavor of this nature, however, requires the support of the public. Therefore, we wish to make an earnest appeal for workers to join our staff.

Anyone, experienced or not, who has shown interest in some phase of journalism, whether in news, make-up, features, or sports is heartily encouraged to contact any member of the staff and come to work. Take the opportunity now to enrich your life by joining one of the world's finest professions—journalism.

Opportunities for travel and advancement abound; some of our reporters, through faithful service, have been awarded posts in such exotic places as Culbertson Hall, the Athenaeum, and soon our new auditorium.

Don't let it be said that you missed your chance to serve among the chosen, the staff of the **California Tech**.

Work on the **Tech** and Fight Communism!

—Don Green  
J. C. Simpson

## EDITORIAL POLICY

For the information of its readers, the **Tech** presents the following summary of its editorial policy:

The first signature following an editorial indicates the author of that editorial. The following signature, if any, indicates approval by the other editor. If editors sign the editorial, that editorial then represents the opinion of the **California Tech**.

In general, column writers have complete freedom as to the content of their columns. No column will be eliminated from any issue of the paper solely because of the

opinions represented in that column. Column writers represent their own opinions only and not necessarily the opinions of the **California Tech**.

The **California Tech** welcomes all letters, whether or not they agree with editorial opinion. Letters are edited (or left out) solely on the bases of space, decency, and the desire to present letter opinions in proportion to the amount of mail received. As with columns, the opinions stated in letters are not necessarily those of the **California Tech**.

## Acheson

(Continued from page 1)

solid allied policy in favor of the reunification of Germany. A unified allied position would do much to promoting a consistent policy in the face of recurring crises over the divided city of Berlin. Such a policy must strive

toward a free reunified Germany within a unified Europe. Acheson further maintained that the elimination of obstacle No. 1, the building a massive non-nuclear European deterrent, would greatly enhance the elimination of obstacle No. 3, and spur the realization of a united and free Germany.

# California Tech

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## Letters

### Piano Smashers

Dear Student Body:

We are aware of the wonderful reputation of C.I.T. The reputation of your institution has not only been established in America but throughout the world. The importance of your school can not be underestimated in light of the needs in this technological era. This is an important part of the society in which we live. We recently read an article in the March Atlantic edition of **Time** concerning the actions of some students at C.I.T. — that of demolishing an old piano. We are concerned not with your criticism of certain segments of society, but the notion that you have taken upon yourselves to physically destroy those symbolic objects which you think are obsolete in society. Perhaps others may decide that elements in science have no value and thus will destroy "insignificant" scientific instruments in 4 minutes and 50 seconds.

Criticize, yes! But by the symbol of your destruction, you have gone beyond the limits of mere criticism and have become final judges of what you disagree with in society. This is dangerous, for what will stop you from destroying anything which you do not feel appropriate for society?

As our Ethiopian students read these articles they become confused for the values conflict. Are we wrong in teaching ideals, imagination, the scientific method, creative thinking, and the importance of education? They read of "tomfoolery" and destruction. How can there be any feeling of seriousness toward education and the scientific values? If our aims are to change society, let us use a scientific approach of creating and not destroying.

Joyce Campbell  
Wendell Brooks  
Willie Mae Harris  
Jesse Council  
Sally J. Timmel

Editor's note: The above letter was signed by five members of

## ASCIT Bites Back

# 'Contrast' Shown Here; Paper Regular Feature

BY BOB LIEBERMANN

This is the first installment of a regular column, the subject matter of which is spewing forth spontaneously from that den of the intangible commonly known as the ASCIT Board Room. The purpose of this column is to provide information to the student body concerning topics of current and vital interest to ASCIT; it is not to be a forum for personal diatribes and opinions and the information herein conveyed does not necessarily coincide with the views of the Board of Directors. The topics to be dealt with in the column will be reviewed by a 4-headed monster known variously as the president, vice president, activities chairman, and the Interhouse chairman. Members of the BOD will thus be provided with a vehicle of communication with the entire student body.

### Contrasting Columns

The first of these articles deals with a new publication, concerned solely with ideas, which will appear monthly on seventeen Southern California campuses. The March issue of this paper has already been distributed and copies are available in the student house lounges and the Winnett Student Center. This publication, called **Contrast**, is run entirely by students, with representatives of each of the seventeen campuses. Among the colleges participating are UCLA, USC, Scripps, PCC, and the other members of Tech's athletic conference.

The purpose of **Contrast** is to open the channels of inter-collegiate intellectual communication and to provide a forum for

the U. S. Peace Corps presently serving in Ethiopia. The reaction spreads!

As it is rumored, Dr. Feynman expressed the final word — that it is the Peace Corps' job to explain this.

the propagation of a wide diversity of ideas and opinions with the hope of encouraging original and creative thought.

The paper has a rather elementary format. Every issue of the four-page rag will be highlighted by a feature article by a person of significance: such notables as Margaret Mead, Erich Fromm, Thomas Kuchel, Norman Thomas, and Robert Penn Warren have agreed to supply articles; the maiden issue features an Erskine Caldwell tract entitled "Fodder and Fondue in Fiction." In addition to the lead article, there will be minor essays on random topics. These essays are to be of student origin and members of the student body are encouraged to submit any essays of their own for discussion by the college public. A third portion of the paper will be set aside for letters addressed either to the editor or to the college public at large. Comments and criticisms are welcomed by the editors from all sides.

It is hoped that members of the Caltech student body will find this new publication interesting and provocative. To this end, the BOD is sponsoring the distribution of **Contrast** on this campus. Students are encouraged to submit all articles, essays, and/or letters to their friendly BOD member who, in turn, will relay them to the editors.

## EPC Shown To Be Super-Cool

BY BARRY McCOY

Applications are open for ASCIT Educational Policies Committee and will remain open until April 8. Interested people should contact Dave Helfman.

The EPC has no formal powers and its only duty is to represent the student body to the faculty in regard with educational matters. Sometimes this representation is done by informal talks with individual faculty members, sometimes by joint student-faculty meetings, and sometimes by formal letters.

The most consistent activity of EPC is to hold weekly meetings in the Greasy and escape Student House food, but several other projects have been started and a few completed:

1) The proposed changes in the PE program have been discussed and recommendations have been sent to the faculty.

2) It was recommended on the basis of a poll last year of the honor sections that freshmen honor sections in History and English be established. Such a honors section was set up second term and is going fine.

3) After being brought to the attention of the Humanities Division, Dabney library is open all day on the two weekends preceding finals.

4) Suggestions have been made to the Physics Department regarding the new program to follow the current frosh and sophomore Feynman course.

5) The Chemistry Department was reminded that Chem 41 and 46 needed more units and things have been improved.

6) Econ 4 and graphics were discussed and discussed.

7) and lastly, Dave Holtz worked on a pamphlet to inform frosh about honors research possibilities.

## frets and frails

# Ashgrovers Sing, TV Blacklists

BY LEE MOLHO

Clothed in colorful peasant costumes, "Chetvero Nas" sings Russian and Eastern European songs with effective harmony and plenty of spirit, in the Ashgrove show that continues through this weekend. This quartet is another of the brainchildren of Mike Janusz, who brought the Yiddish-oriented "Die Freileche Kabtzonim" to the Ashgrove stage some months ago.

And "Chetvero Nas" shows its parentage clearly. It has the excellent musicianship and fine stage presence of Janusz, but also his strong personality and eclectic tendencies — its gypsy song is pure Theo Bikel. Ruth Bachrach, Victor Pierce, and Marcia Berman are the other members of "Chetvero Nas."

Also on the same program are Kajsa Ohman, who sings everything from Greek ballads to pseudo-rock-and-roll, and Julio de los Reyes, a most talented flamenco guitarist. De los Reyes is indeed a treat to hear; his style is varied and exciting. (Sub note: Some day the Ashgrove will turn down its sound system for flamenco or replace its boomy \$2.98 specials with real

speakers. Till then, it is best to sit up close to the stage.)

### TV's Blacklist

The ABC television network, whose most radical programming used to be John Daly's news commentary, is (gasp!) getting into the folk music field. "Hootenanny," a weekly series, will premiere April 6. The program seems to have an excellent lineup of talent — Theo Bikel, the Rooftop Singers, and the Clancy Brothers are some of the artists — but two singers are notably missing — Peter Seeger and Joan Baez.

The reason for their absence was reported by Nat Hentoff in a recent issue of **Village Voice**. It seems that someone at ABC — no one will say whom — has blacklisted Pete, presumably because of his political views. Incensed, Joan Baez has flatly refused to perform on the show until Seeger is permitted on the program.

### KRHM Moves

Members of the let's-go-visit-Les-Claypool-on-Saturday-night society are hereby warned KRHM is moving in a month or two. The new studios, near Third and Kingsley in L. A., will be bigger but probably not big enough for live shows.



By Steve Schwarz

ASCIT Minutes

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minimize ASCIT's possible losses.

If neither of these two offers are accepted, a satire group would like to present a two hour show of "Third City Review" in Culbertson, recording the show for Electra records, a subsidiary of RCA. If the Review will agree to record in Culbertson their offer of \$400 for the performance will be accepted. Admission for students and their dates to these affairs will be between \$1 and \$1.50, and others will pay between \$1.50 and \$2.00.

To Catalina!

Deals for the steamship ride to Catalina for Lost Weekend are in the offing. The price for rides appeared to be about \$11 a couple of which ASCIT will probably subsidize \$5. The most promising proposal calls for leaving at noon on the two hour trip and returning at midnight (to Long Beach).

Coffee Hours this term will be held on Thursday, from three to four, rather than Wednesday as they were last term. This was done so those people who had Wednesday conflicts will be able to attend the coffee hours.

stage, where it is called ballet. Yet the cinema has never adopted it. Of course, there have been motion picture transcriptions of ordinary ballet, but movies, not being hampered by human performers or physical realities, are capable of so much more than this. Yet, except for that lowlife Walt Disney, nobody has ever tried.

Disney's Successes

It is interesting to see just what success Disney has had with the various kinds of music in the film. Most daring, and unfortunately least successful, is his completely non-representational accompaniment to the Toccatta and Fugue. Here one feels that there is no possibility of coordination between the musical and the visual; Bach, even Stokowski-ized Bach, completely overwhelms the stylized and rather simple Disney technique and makes it seem an annoying distraction. If Lionel Feininger could have been persuaded to draw the several thousand necessary frames it might have been a different matter.

With "mood" music, such as Rite of Spring he is more suc-

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FANTASIA at Grauman's Chinese

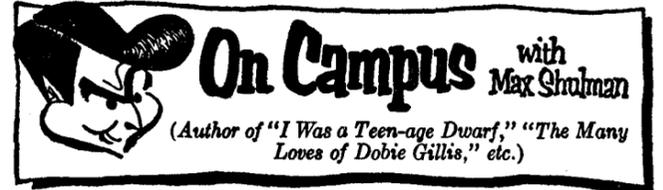
Those of us who were here when Lloyd House was a patch of weeds will remember Fantasia from the first time it was around, in the 1940's. It was a flop then — the only thing, I suppose, that Walt Disney ever lost money on. Now it seems that nobody will even notice it, N'th time around, and I say that's a pity. Sneer at Walt Disney if you will; nonetheless, Fantasia is a daring experiment that was ahead of its time when it was made, and in my opinion still is.

For the benefit of the younger generation, Fantasia consists of several classical selections, rendered by Stokowski and the Philadelphia Orchestra: Bach's Toccatta and Fugue in D Minor and Beethoven's Pastoral Symphony are included, as well as several familiar light pieces. To these the Disney artists have set a pictorial "accompaniment," with the hope of creating an experience both visual and aural, in which the whole would be greater than the sum of its parts. The idea itself isn't new, of course; it has been in use for at least a hundred years on the

Coffee Hour Today

Today will mark the first in a series of Thursday faculty-student Coffee Hours in the Winnett Center Lounge from 3 to 4 p.m. The Coffee Hours, which had previously been held on Wednesdays, have engendered a great deal of comment on the part of faculty and students alike. These ASCIT-sponsored Coffee Hours provide a pleasant and congenial atmosphere for discussion among members of the Caltech community.

The switch in days was made to enable many of those faculty and students who could not attend the Wednesday sessions to come to the Thursday Coffee Hours. Although the Coffee Hours will continue to be held on Thursdays during third term, it is hoped by the ASCIT Board of Directors that the placement of this hour can be made flexible enough in the general framework of the week so that all who are interested, both students and faculty, will be able to attend.



HOW TO GET EDUCATED ALTHOUGH ATTENDING COLLEGE

In your quest for a college degree, are you becoming a narrow specialist, or are you being educated in the broad, classical sense of the word?

This question is being asked today by many serious observers — including my barber, my roofer, and my little dog Spot — and it would be well to seek an answer.

Are we becoming experts only in the confined area of our majors, or does our knowledge range far and wide? Do we, for example, know who fought in the Battle of Jenkins' Ear, or Kant's epistemology, or Planck's constant, or Valsalva's maneuver, or what Wordsworth was doing ten miles above Tintern Abbey?

If we do not, we are turning, alas, into specialists. How then can we broaden our vistas, lengthen our horizons — become, in short, educated?

Well sir, the first thing we must do is throw away our curricula. Tomorrow, instead of going to the same old classes, let us try something new. Let us not think of college as a rigid discipline, but as a kind of vast academic smorgasbord, with all kinds of tempting intellectual tidbits to savor. Let's start sampling tomorrow.



We will begin the day with a stimulating seminar in Hittite artifacts. Then we will go over to marine biology and spend a happy hour with the sea slugs. Then we will open our pores by drilling a spell with the ROTC. Then we'll go over to journalism and tear out the front page. Then we'll go to the medical school and autograph some casts. Then we'll go to home economics and have lunch.

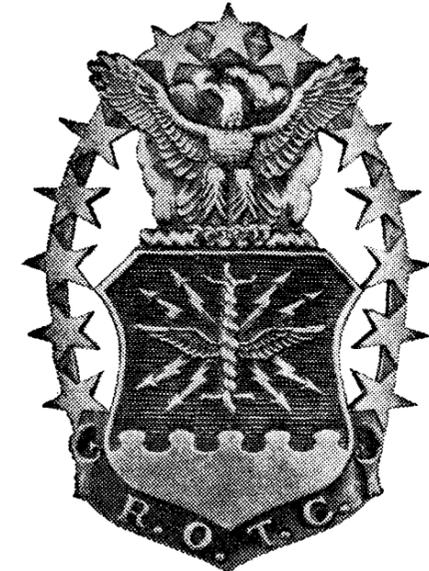
And between classes we'll smoke Marlboro Cigarettes. This, let me emphasize, is not an added fillip to the broadening of our education. This is an essential. To learn to live fully and well is an important part of education, and Marlboros are an important part of living fully and well. What a sense of completeness you will get from Marlboro's fine tobaccos, from Marlboro's pure filter! What flavor Marlboro delivers! Through that immaculate filter comes flavor in full measure, flavor without stint or compromise, flavor that wrinkled care derides, flavor holding both its sides. This triumph of the tobaccoist's art comes to you in soft pack or Flip-Top box and can be lighted with match, lighter, candle, Welsbach mantle, or by rubbing two small Indians together.

When we have embarked on this new regimen — or, more accurately, lack of regimen — we will soon be cultured as all get out. When strangers accost us on the street and say, "What was Wordsworth doing ten miles above Tintern Abbey, hey?" we will no longer slink away in silent abashment. We will reply loud and clear:

"As any truly educated person knows, Wordsworth, Shelley, and Keats used to go to the Widdicombe Fair every year for the poetry-writing contests and three-legged races, both of which they enjoyed lyrically. Well sir, imagine their chagrin when they arrived at the Fair in 1776 and learned that Oliver Cromwell, uneasy because Guy Fawkes had just invented the spinning jenny, had cancelled all public gatherings, including the Widdicombe Fair and Liverpool. Shelley was so upset that he drowned himself in a butt of malmsey. Keats went to London and became Charlotte Bronte. Wordsworth ran blindly into the forest until he collapsed in a heap ten miles above Tintern Abbey. There he lay for several years, sobbing and kicking his little fat legs. At length, peace returned to him. He looked around, noted the beauty of the forest, and was so moved that he wrote Joyce Kilmer's immortal Trees... And that, smart-apple, is what Wordsworth was doing ten miles above Tintern Abbey."

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Poets and peasants, students and teachers, ladies and gentlemen — all know you get a lot to like in a Marlboro — available wherever cigarettes are sold in all 50 States.



Missed A.F.R.O.T.C.?



Go A.F.O.T.S.!

These letters stand for Air Force Officer Training School—a three-month course for those who realize they want to become Air Force officers, but don't have enough school time left to enroll in AFROTC.

We prefer our officers to start their training as freshmen, so we can commission them directly upon graduation. But right now we're accepting applications for another fine way to become an Air Force officer—OTS. We can't guarantee that this program will still

be open a year or so from now.

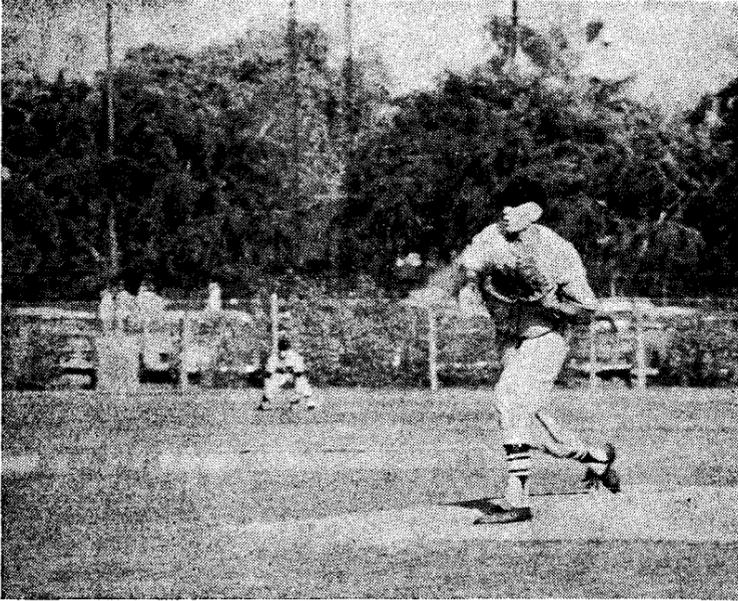
As an Air Force officer, you'll be a leader on the Aerospace Team, serving your country while you get a flying headstart on the technology of the future. The U.S. Air Force sponsors one of the world's most advanced research and development programs—and you can be part of it.

If you're within 210 days of graduation, get more information on OTS from the Professor of Air Science.

U.S. Air Force

# SPORTS

## Baseball Team Wins Games Over Whittier From Cal Lutheran, Upland Golfers Victors



—photograph by B.I.G. Tea

Bill Ricks blazes the fast one in, there.

In the third game of the season the Tech baseball team broke a two-year losing streak, beating Cal Lutheran 9-8. John Diebel and Murray Sherman shared the pitching and were backed up by the hitting of Bill Weber, Dave Barker and Gary Dahlman.

The team then stretched their streak to two straight by waxing Upland College 12-7 last Thursday, despite the absence of several starters. Bill Ricks started on the mound and gave up only two runs in four innings, both on errors in the first inning. Joe Bocklage, with a double and a triple, Dave Hewitt, and Dahlman were big at the plate.

Last Tuesday's game with Whittier resulted in a 6-2 loss. Team members feel that the

outlook is excellent that the team will win quite a few this year, including some league games. The starting line-up — Carlos Johnson behind the plate, Bocklage at first, Dahlman at second, Weber at third, Marty Hoffman at short, Barker in left, Les Tomley in center, and Hewitt in right — is stronger than last year at every position, and hitting is better than it has been. The mound corp (Ricks) has been greatly strengthened by the addition of sophomores Diebel and Sherman. This Saturday CHM plays in a double-header at TP starting at 1:00, so come on down and watch a winning team.

Last Tuesday afternoon, the Caltech golf team came through with an exciting victory 28-26 over a strong Whittier team. The match was held on the Anandale Country Club course. Leading the Caltech contingent to victory in singles were Faulconer, Schultz and Hyde who won their matches 6-0, 4-2 and 6-0, respectively. In addition, the doubles team of Landis and Faulconer won 4-2, and the team of Schultz and Hyde contributed with a 6-0 victory over their Whittier opponents.

This was Caltech's first golf victory over Whittier in some time.

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## Track Team To Enter Relays

The varsity track team meets the other SCIAC schools at Claremont this Saturday in the annual Claremont relays. Techmen varsity and frosh will compete.

The events in the meet will consist of the normal field events and some of the regular running events, such as the 100 yard dash. There will be in addition to these a number of relays. These include the varsity distance medley, the varsity and frosh 440 relay, and the varsity and frosh mile relay.

The tracksters' last meet was held on Tuesday of the last week last term. The meet, held against Biola, was won by Tech with the unbalanced score of 122-18.

Future track meets will be held at home against LaVerne on Saturday, April 3; against UC Riverside on Saturday, April 20; and away, against Whittier, on Saturday, April 27. The conference preliminaries will be at Oxy on Wednesday, May 1, while the Conference finals will be at Oxy on Friday, May 3.

## MIT Meetings

(Continued from page 1)

two sessions in each of the three areas; the first is a plenary session of addresses by specialists in that field followed by a panel debate by MIT faculty members, and the second is a more informal discussion session among delegates, speakers and faculty.

Caltech's delegates were selected from those who expressed interest by a faculty committee headed by the Dean of Students. In addition to the planned discussion session, the delegates will also have the opportunity to visit Boston landmarks and attend a banquet and dance at MIT.



**We went to the mountain to make 1963 Ford-built cars go 30,000 to 100,000 miles between major chassis lubrications**

Quite a task faced Ford Motor Company engineers when they set out to eliminate the traditional trip to the grease rack every 1,000 miles.

Like Mohammed, they went to the mountain—Bartlett Mountain on the Continental Divide in Colorado. More molybdenite is mined there than in the rest of the world combined. And from molybdenite ore comes the amazing "moly" grease that helps extend the chassis lubrication intervals for Ford-built cars. This grease sticks tenaciously to metal, stands up under extreme pressures and resists moisture, pounding and squeezing. It is slicker than skates on ice!

New, improved seals were developed. Bushings, bearings and washers of many materials were investigated. Slippery synthetics, like nylon and teflon, were used a number of new ways.

The search for means to extend chassis lubrication also led to New Orleans—where experimental suspension ball joints tested in taxicabs in regular service went two years without relubrication.

It took time. And ingenuity. But the effort paid off when Ford-built cars were the first to build in chassis lubrication good for 30,000 miles or two years—whichever came first.

Another assignment completed—another "Ford First" and another example of how Ford Motor Company provides engineering leadership for the American Road.



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# The Critical Ear

by  
rickerman

FM Tuners are one of the most useful additions to any high fidelity system. Indeed, it is often a good idea to invest in a good tuner before laying out the money for turn-tables, tone arms, preamplifiers, amplifiers, speakers, and the host of affiliated paraphernalia. A pair of headphones do very well for quite a lot of listening and they also block out distractions very nicely.

I will have a report on high fidelity headphones this next week or so, but for now let's look at kits. FM tuner kits can be built by anyone with a little common sense and ability. With this definition in mind, I shall assume that the average Techman will be able to construct any kit package on the market.

Furthermore, to buy prewired kits is a mistake. If you doubt this statement, take a look at the wiring in any prewired kit and ask yourself if you couldn't do a better job. A classic example of "prewired front ends" may be seen in the Heathkit FM-4 set. Dow radio is selling the assembly in a surplus bin at \$3, by the way, so you can see this one any time. Terrible, isn't it?

So — now you want to buy a tuner kit to use as an escape from snaking. The next question is where.

### Where To Go

The most obvious place to look is Dow-Hi-Fi on Colorado right across the street from A & H Discount Records.

A better deal can almost always be obtained, however, at Stereo Mart on 3205 Foothill Boulevard. If you want an illustration of the importance of that "little hole-in-the-wall" I suggest you take a look at the local yellow pages under High Fidelity & Stereophonic Sound Equipment and look at the listings under distributors for the manufacturers included.

A prospective kit buyer is often concerned over the inevitable problem of "alignment" so the set does its best. To this particular problem there are

three distinct solutions. Firstly, you can do it yourself by sound — assuming, of course that the set is fairly close to right at the beginning; if you get any sound out you can usually manage to get pretty good sound with a little fiddling. Secondly, you can get the amateur in the alley (there almost always is one) to play with it — maybe even for a EE7 lab project. Last of all you can take it to a serviceman. Look out! Unless you meet a very unusual guy you will get nailed for this one since you are over the proverbial barrel with a non-working set, or one not doing well, after you have paid for it.

### Back to Kits

There are six major kit manufacturers in the field. They are (in order of increasing price) Heath Company (AJ-31, AJ-12)

(Continued on page 6)

Wherever you go you look better in  
**ARROW**

At last, somebody has buttoned down the perfect collar

## THE BELL TELEPHONE COMPANIES SALUTE: NORMAN AZEVEDO

Norman Azevedo (B.S.C.E., 1960) started with Pacific Telephone as a building designer and coordinator in San Francisco. On this job, Norm was responsible for building projects from original design to final field inspection.

As a staff assistant in the Traffic Department, his next job, Norm made an emergency lighting study that further enhanced his reputation.

Norm was recently assigned work on division of revenues between Pacific Telephone and Independent Telephone Companies. An important step up.

Norm Azevedo and other young engineers like him in Bell Telephone Companies throughout the country help bring the finest communications service in the world to the homes and businesses of a growing America.



### BELL TELEPHONE COMPANIES

#### TELEPHONE MAN-OF-THE-MONTH



## Audience

(Continued from page 3)

cessful. Here many of the images he invokes — volcanoes, dinosaurs, demons, the Greek Gods — are very compelling, and not easily forgotten. In these pieces the best coordination between look and listen seems to be achieved in more-or-less surrealistic sequences, so that one feels he is dreaming to the music, only more vividly than usual. On the other hand, the worst results are obtained with occasional slapstick cutenesses, like pink lady hippopotamus ballerinas falling on their butts. I suppose force of habit was just too much for Disney, but as far as building up rapport is concerned, each one is a table scratch.

### The Sorcerer

The greatest success of all, however, is had with the only out-and-out story-telling piece of music, *The Sorcerer's Apprentice*. Here, with an actual storyline to help them along, the Disney drawings are really equal to the task. You may argue that this is really only an animated cartoon set to better-than-average music; I reply that Dukas' music itself is only a cartoon that

(Continued on page 6)

**Critical Ear**

(Continued from page 5)  
multiplex), EICO (HFT-90K, ST-97K multpx.), Dynaco (FM-1, FM-1 & FM-3 multpx.), Harmon-Kardon (Citation III with and without multiplex and the award series F-50XK multiplex only), Scott (LT-10, LT-110 multpx.), and Fisher (KM-60 multiplex only). Lafayette, Allied Radio, and Radio Shack have their own mail-order brands but I have had no recent contact with them.

The battle between the low priced (\$40) Heathkit and EICO units is as old as the two companies. EICO, however, developed a unit and has not altered it for quite a while. It is a nice looking, clean cut set with a tuning unit not found on the Heath models. It lacks flywheel tuning which may or may not be a drawback. Heathkit, on the otherhand, has a rather overdone (I hesitate to say gaudy) cabinet and the flywheel. Both sets perform about the same — weak signals mush up very easily, bandwidth is fairly good but I would think twice about multiplex with these lowest priced sets, distortion is quite low, strong signal separation (KFMU-KDUO-KNOB region) is poor, and any pre-alignment is done only with a straight edge. My own preference here favors the EICO — barely.

The Heath AJ-12 unit is no more than the above unit (AJ-31) with a multiplex adaptor. EICO produced a more expensive adaptor resulting in a more expensive multiplex tuner. The end result is limited, however, by the tuners themselves. The adaptors, by the way, are not too bad.

Dynaco fills the gap between the "elite" units and the low cost sets with its very sharp FM-1 tuner. This kit has some very fine features such as no dial cords (Scott style "planetary" dial), a good tuning indicator, very fine sound with low distortion and excellent station separation capability. Alignment is not a problem generally speaking but the tuning indicator can be used for minor adjustments. The multiplex adaptor FM-3 fits inside the FM-1 and automatically gives you second channel output when you tune into a multiplexing station. On general FM you get two identical outputs from the two channels. The adaptor is very good and or a very good FM set I recommend the FM-1/FM-3 combination.

(Continued next week)

**Audience**

(Continued from page 5)  
the listener's imagination has to animate. At any rate, Disney seems to supply pictures for Dukas' music that are much better than any that my imagination ever came up with. After seeing *Fantasia* I defy anyone to hear the music and not think of Mickey Mouse thrashing away at those infernal brooms.

**Schwarz's Spiels**

In passing, I think it is interesting to consider the possible new directions suggested by this experimental film. Here is one, which I offer to the many producers in my readership free of charge. In view of Disney's success with filling the imagination-gap in story-type music, why not take some of the more interesting descriptive selections — ones that we've always wanted to picture and never quite could — and portray them using ac-

tors that are live, but act in pantomime so as not to mess up the music. You could have various kinds of pieces for various emotional moods: for pathos we could watch *The Death of Ase*; for humor Mozart's *Musical Joke*; for horror perhaps Kurt Weill's song *To a Drowned Maiden*; you can go on and fill in a list from your own favorites. Or you can see whether *Fantasia* doesn't suggest some other new approaches for movie-making to you — probably it will.

**Coming Attractions**

Here's another daring experiment for you, this time over at PCC. The Orchesis group of that venerable institution is doing a modern dance adaptation of Arthur Miller's *The Crucible*, at 8:30 p.m., April 3 and 4. Offhand it sounds kind if far-out, but if it doesn't appeal to your artistic longings the girls' costumes may at least appeal to your nether side.

HEY! WHAT'S THAT YOU'RE CHEWIN', BILL?

COPENHAGEN, OF COURSE! HERE, TRY A PINCH!

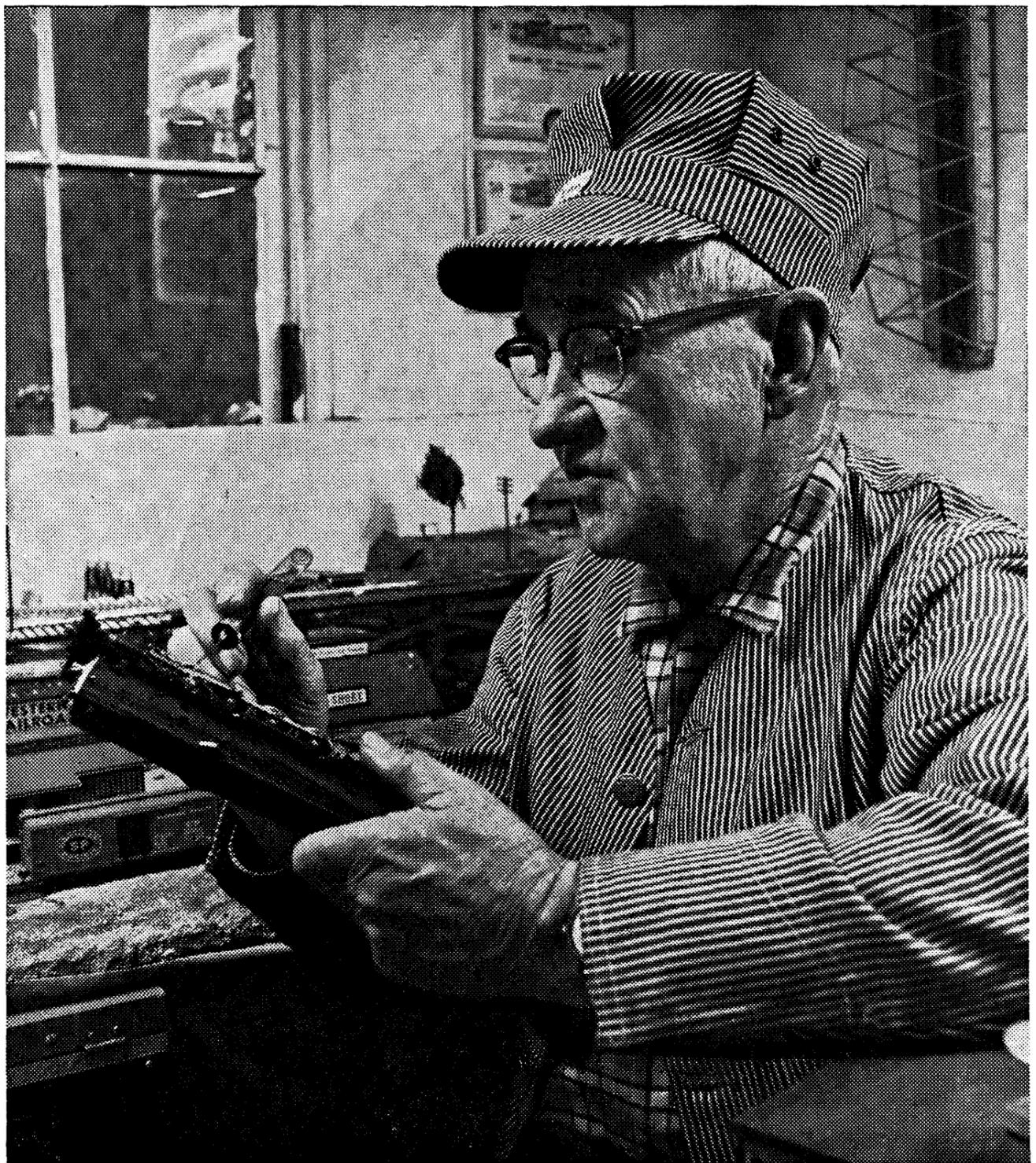
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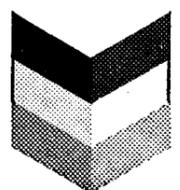
and is still one of the "Boys" at the refinery. He knows that he *belongs*.

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