

## Females To Spark Glee Club Sing

The sound of female voices will brighten the atmosphere at the 10th annual Caltech Glee Club Spring Concert. (No, this isn't any slight to our fine Caltech Gleemen's masculinity.) The Pomona College Women's Glee Club will join the Caltech group in presenting "Spring Serenade" on Saturday, May 11, at 8:15 p.m.

The concert will be held in the John Marshall Junior High School auditorium at 990 N. Allen Ave., Pasadena. Tickets for the concert are free for members of ASCIT, \$1.00 for other students and \$1.50 for adults.

The feature number of the evening will be the Brahms masterpiece, "How Lovely Is Thy Dwelling Place," to be sung by the two choruses combined.

The Pomona chorus will present Brahms' "Four Songs," Opus 17, for women's voices, two horns and a harp. The two horns will not be supplied by some undisclosed Techman as originally planned, but will be played by French horn players Jane Thompson and Peter Cobb. Harpist Elizabeth Elgin will supply the angelic touch.

Caltech's fine Glee Club will sing a collection of three 17th Century English fancies by Jean Berger; two of the late Robert Frost's poems set to music by Randall Thompson; and "John Henry." Freshman pianist David McCarroll will accompany the men's glee club.



—photo by Phil Liapis

"The Munchkins" demonstrate the proper method for developing a true flamenco dance technique during the ASCIT concert last Saturday. The concert was recorded by Electra Records.

## Faculty Board Revises Courses

On April 15, the Faculty Board approved several changes in various parts of the curriculum. Several of these offer somewhat major changes in certain option requirements. In the Chemistry option, the Chem 41-46 problem has been resolved by making two basic changes: first, Ch 41 has been made a 10 unit course (3-0-7) for the first term; the first term lab, presently Ch 46a, has been eliminated; second and third terms remain as they are now. The second basic change is the addition of a lab to go with Ch 144a, to be called Ch 145, with seven units (1-5-1). This is to allow another term of organic lab to replace the lost Ch 46a.

Chemical Engineering will no longer require AM 8ac. AM 8c has been added to the third term, junior year, and AM 9a to the first term, senior year. ChE 63c has been dropped and will be replaced with a new course the senior year, ChE 64, Applied Chemical Thermodynamics, nine units (3-0-6).

Physics has added a new course at the graduate level, Ph 236c, an extension of the present Ph 236ab; the new course is entitled "Special Topics in General Relativity," nine units, (3-0-6). Of more importance to undergraduates are the changes in the junior year curriculum. Ph 107 and Ph 111 are to be dropped, and replaced with three new courses: Ph 109, first term — Analytical Mechanics; Ph 114, second and third terms—Atomic and Nuclear Physics; and Ph 125abc, first, second, and third terms—Quantum Mechanics.

AM 8abc and AM 9abc are being changed to AM 97abc, Analytical Mechanics of Deformable Bodies, and AM 98abc, Analytical Dynamics. Both of these are 3-0-6 units. AM 95ab and AM 116 are to be combined to form AM 95abc.

The Biology Department has dropped the Econ 4 requirement, while the humanities are to be increased from 9 to 15 for the first and second terms, senior (Continued on page 4)

## Swank Hotel Site For Caltech Prom

BY RAY PLAUT

The 1963 Caltech Prom, Friday May 17, will be open to all undergraduates. In the past the Prom was a junior-senior affair, while the underclassmen put on a frosh-soph hop (which was usually a frosh-soph flop as far as attendance was concerned). This year, due to various circumstances, the Prom is being held during Lost Weekend. Therefore all undergrads, including Lost Weekend couples, are invited to attend this biggest and best Prom in CIT history.

The Prom will be held at the Huntington-Sheraton Hotel from 9 p.m. to 1 a.m. Music will be provided by Wayne Songer and his 10-piece band, plus a beautiful female vocalist. For more information, see Ray Plaut or Don Terwilliger in Ruddock.

## YMCA To Host Riesman Monday

BY LARRY RABINOWITZ

David Riesman will present a major public address, "Innovation and Reaction in Higher Education," Monday, May 6, at 8:00 p.m. in Culbertson Hall. Riesman, Professor of Social Sciences at Harvard University, will be brought to the campus May 6-8 by the YMCA Leaders of America program.

Riesman will talk Monday evening about the problems of the destruction of values in college, where students find themselves in a new intellectual climate. In his book, *Constraint and Variety in American Education*, he expresses the view that education is most effective when it serves as a contrast to dominant and accepted patterns in culture.

Riesman has been concerned with American foreign policies and their domestic impact, and he will discuss "Pressures on American Foreign Policy," Monday, 4:00 p.m., in the Winnett Student Center Lounge. He suggests in a recent article in *The New Republic* that "it may be easier in the short run to contain the Soviet Union than to contain our own allies or the American energies mobilized behind the Cold War."

On Tuesday, Riesman will meet with graduate students from 10:30 to 12:00 noon in an informal discussion in the YMCA.

## ASCIT Concert Proves Success

BY RODGER WHITLOCK

Last Saturday evening, the Munchkins presented their satirical review in Culbertson. The show was divided into three parts: a group of skits used in previous reviews; a film, "Last Year at Malibu;" and a group of skits inspired by comments from the audience. The first group of items included jokes about the Peace Corps, love children, fathers and their daughters' dates, husband-and-wife jealousy, foreign aid, fallout shelters, life in Spain, and modern life in general. Among the most notable lines from this section are "Would a Darwinian lie in front of a monkey?" "My wife majored in birth control at Antioch," as well as "I'm patriotic; I fly the flag on St. Valentine's Day."

The movie was the highlight of the evening; intended as a parody of the work of the more notable foreign directors, it fulfilled its task admirably. The filmwork and camera handling were completely dizzying at times, evoking a good response from the audience.

The evening ended with a coffee reception for the cast at Ruddock; many of the audience talked for about an hour with the cast. According to David Helfman, ASCIT Activities Chairman, exactly 400 tickets were sold for a total income of \$647.50. Expenses were approximately \$470, leaving about \$177.50 of profit for ASCIT. This, of course, has been pledged to the newspaper.

## Spartan Valor Revealed At Caltech-Scripps Conference

BY BOB GILLON

Last weekend, a battalion of Caltech's finest intellects took to the field of honor. These brave young men, dedicated to the principles of egoism, bigotry, isolationism, and apathy, pitted themselves against forty reactionary Scrippsies. Our enlightened forces were placed on the defensive early the first evening, following the issuance of the battle cry, "We're all brothers under the skin." Some of the better spirited of the troops rallied with a cry of "Really care," but the first day ended in defeat and disarray.

### Field Exercise

Reveille the following day was at 800 (a.m.) hours and our troops left the bivouac with vigor. Only one desertion must be noted; division 15 resisted all efforts to arouse them. The three worst offenders even slept through the taunts of enemy spies who somehow managed to penetrate our lines. There have been charges of drinking on duty, but all bottles, cans, and containers found were empty, so these slanderous remarks must be disregarded.

The first engagement of the day produced a positive result for our boys, but latest reports indicate that the courts will have it annulled. The second clash came in the pre-dawn (930) hours. The opposition, still seeking slogans to buttress its position, stated that we have a

moral duty to respond to international affairs. Tech spartans replied that the world is flat beyond the smog, and the tide of battle began to change. One interesting exchange came from the right flank. A Techman sneezed, and the enemy seized his words, generalized them, and moralized on the point.

### Liberty, Equality, . . .

The afternoon was a period of fraternization and varying degrees of intimacy, but by 1830 hours the battle lines were redrawn. Work on politics was their cry, but experience with the BOD had shown our men that all legislators are crooked, and victory was ours on every front. The combat degenerated to pagan dances (folk and stomp), singing, and personal combat, our forces retaining the upper position at all times.

The next morning, Scrippsie's depleted ranks launched their Pickett's charge. After an hours bombardment with cries of "Know Thyself" our forces were rather dispirited. But none of the opposition could reply to our leader's call of "Things are bad enough, why make myself neurotic." Their ranks broke, the enlisted women surrendered en masse, and suffered themselves to be carried off in bondage. No further trouble is anticipated with this group, as their leaders plan to sever all relations with our troops.

## Notices

### CIRCULATION MANAGER SOUGHT

The California Tech is looking for a new circulation manager. If interested, contact J. C. Simpson in Ruddock, or Don Green in Fleming.

### UGLY AMERICAN

Special student exchange tickets entitling students to one general admission for \$1.00 (tax exempt) to the *Ugly American* may be obtained from the personnel office or the Winnett Student Center Office.

### SAILING CLUB

The Caltech Sailing Club will meet briefly at 7:15 Thursday night in Clubroom No. 2 to plan sailing for the following two weekends.

### OLYMPIAD TICKETS

Tickets of admission to the Fleming Olympiad are available from Dave Jarvis, Fleming Sophomore athletic manager. All other classes' participants, as well as all spectators, must purchase these. Going fast, only 750 left. Get yours for \$0.69.

### THURSDAY COFFEE HOURS RETURN

There will be a Coffee Hour next Thursday, 3:00 p.m., in Winnett Lounge.

### PRIEST SPEAKS HERE

This Monday evening Fr. O'Rielly will present his views on freedom in the Catholic Church to all interested students in club room No. 1 Winnett at 7:30 p.m.

## Editorials

## Logic Is Still Best

In the last few days there has arisen a new insurgent force on the ravaged PE battlefield, a call to arms for four years of required PE. One of the nefarious publications of this new "school" was a letter submitted to the faculty strongly urging the retention of the present four-year system. The second manifestation of this growing sickness is printed in the column to the right. This quartet, speaking for "a large number of students," stands squarely in favor of four required years of PE.

At this point, it may be highly instructive to sample a bit of the evidence tendered for this dire need of a four-year PE program. The two epistles speak tearfully of the "somewhat different life" of the Caltech student and the necessity for a PE program to provide "desirable physical exercise and relaxation from studies . . ." The letter to the faculty sees beyond this truism, discerning the manifest "obligation" of Caltech "to produce socially and physically educated men as well as academically trained scientists."

For this "obligation" to be met, they claim, a four-year program of required PE is needed to provide "the necessary impetus that we do not neglect our physical needs." The authors of the faculty letter foresee the doom of Caltech sports if the present program is removed, emphatically crying that "the average Caltech undergraduate will not participate regularly in the physical education program unless it is an integral part of his curriculum."

Even granting the desirability of supplementing an academic education with physical exercise still does not justify the retention of a mandatory four-year program. The result of forcing a student into four years of active PE participation for "his own good" is the defeat of the program's express purpose.

How can mandatory four-year participation in physical education "produce socially and physically educated men?" If a student is mature he should have the freedom to decide to what extent he wishes to take advantage of the physical education program. If he is not mature enough by the time he is a junior or senior, that still is no excuse for constructing an entire program to force his participation at the expense of an enjoyable system for the rest of the students.

We agree firmly that PE is an important facet of Caltech life, but insist that individual responsibility and freedom is an even more important part. We hope that a realistic two-year PE program will be adopted and put into effect by the faculty board for next year.

—Don Green  
J. C. Simpson

## Disneyland Features Band In Plaza Gardens Concert

BY TOM LUBENSKY

Last Saturday afternoon, the Caltech "Concert" Band made one of its rare public appearances away from Dabney Lounge and the Rose Bowl. It presented a twenty minute promenade concert at the Disneyland Plaza Gardens. The concert consisted of light and pops numbers suitable to the ice-cream parlor atmosphere of the Plaza Gardens: a march, a pasa doble, an overture, and excerpts from Camelot. The band was well received:

there was a standing ovation after the final number (instigated we must admit by the dates of the bandmen). The Caltech Alma Mater was played in closing.

On Thursday evening, the twenty-third of May, the Caltech Band (now famed throughout the Los Angeles area) will present its first full-length concert. It will be presented outside in the Athenaeum patio under the auspices of the Athenaeum Program.

## Letters

## Some Favor PE Program For Four Years

Editors:

As may not have been altogether apparent during the recent discussion of reducing the physical education requirements, a large number of students are in favor of a retention of the four year program.

It is admitted that there are several changes in the present program which would make it more beneficial to the average Caltech student. For example, complaints have been registered against the volleyball class, which lacks the instructive nature it should have. That a class can be successful is emphasized by the swimming class.

Yet the above does not point out the real need for four years of P.E., and it is a sure thing that many people will think of other schools which have a much smaller P.E. requirement. The most important argument against shortening the P.E. program at Caltech is that we have a somewhat different life from that at the average school. Most evidently we do a tremendous amount of mental "exercise" and it is well known that a very healthful way to relieve the tension resulting from such work is to do a certain amount of physical exercise.

Let us try to picture realistically what would happen if the P.E. program were shortened. What would be the first time-consuming pursuit to be neglected if almost any other demand stood in its way? Undeniably this would be physical education. And once it had been pushed aside several times, what would be the incentive to return to it? Probably none.

Requiring physical education, even a small requirement as we have now — less than 2% of our time — provides the necessary impetus that we do not neglect our own physical needs. We believe strongly that the P.E. program should continue to be a four year program.

Bob Schmulian  
Jerry Nelson  
Terry Mast  
David Hammer

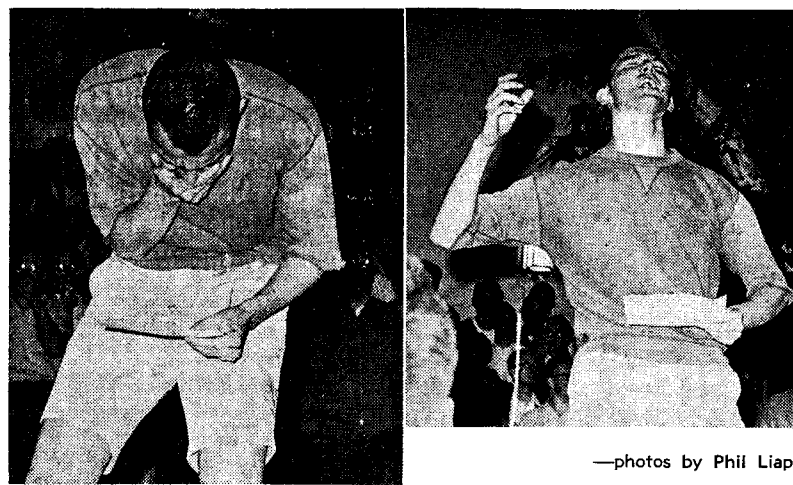
## Academy Elects Three From CIT Faculty

Dr. George S. Hammond, Dr. Leon Knopoff, and Dr. Allan R. Sandage were recently elected members of the National Academy of Sciences at its 100th annual meeting in Washington. D. C. Caltech now has 34 Academy members, the highest percentage of any university faculty.

Hammond, professor of organic chemistry, was also a recipient of the American Chemical Society Award in Petroleum Chemistry in 1961. He is considered to be one of the world's leading investigators in physical organic chemistry.

Knopoff is a professor of geophysics and has done considerable research on the mechanism of earthquakes. His mathematical models of earthquakes have been major advances in seismology.

Sandage, staff member at Mt. Wilson and Palomar Observatories, has made important contribution on the evolution of stars and star groups.



—photos by Phil Liapis

Stu Galley expresses extreme grief over a sheet of Apostol math during the frosh bit part contest. Stu's dramatic reading of this intense piece won him the contest, and "the line" in the ASCIT play.



AUDIENCE

By Al Fansom

### MAN AND SUPERMAN

It was our privilege Tuesday evening to witness the dress rehearsal of the Caltech Drama Club's latest production, **Man and Superman**. We were impressed. We are not certain just how we were impressed, but we were impressed.

In all fairness, the production we viewed was in no sense a finished performance. Rehearsals have been under way for only three weeks and the play is easily one of Shaw's most difficult. To begin with, the play, as of Tuesday, is over three hours long, an improvement over the (reputed) four and one half hours before cutting, but long enough to cause in the average viewer a passionate desire for food and drink — we make no comment about the sanitary facilities in Culbertson, but if you bring a date, we strongly suggest anti-diuretics for an enjoyable evening. Despite these difficulties, the production shows every sign of preserving the very good record sustained by the group in the past.

As is the case in many of Shaw's plays, the plot of **Man and Superman** is somewhat irrelevant to its import. One occasionally wonders, in fact, why Mr. Shaw chose to present his philosophy via the medium of the stage. We sometimes suspect the reason lay in the fact that his philosophy, which often closely resembles a tirade, would have been either deadly dull or totally ineffective presented other than dramatically. We probably need not remind the reader, however, that Shaw's wit is proverbial, his invective unmatched, and his characters uproariously funny.

Which brings us to the cast. Six of the parts are played extremely well; none are played at all badly. Barry Moritz takes the part of Tanner, male cynic,

with admirable poise and presence. This part, along with that of the devil, played by Joe Heller, bears the brunt of the long and difficult philosophical dissertations; both gentlemen do admirable justice to Shaw's sometimes tiring verbiage. Bradna Watson is a perfect coy huntress in the British upper-crust tradition. Bob Poe plays the very stuffy and proper Ramsdon extremely well. Two of the rather minor parts, played by Stephanie Digby and Mike Costello, deserve special mention for professional performance.

Staging, lighting, sound effects, etc., are as usual highlights of the performance. We predict another success for Mr. Heller.

## Techmen Still Same After Thirty Years

From the recently released autobiography of Joseph Wood Krutch, **More Lives Than One**, comes this account of a tour the author made of Caltech in 1930:

"The other incident of the tour that I remember best is a remark made to me by the gentleman in charge of the weekly noontime lectures in the assembly hall of the California Institute of Technology. We were on the platform when the noisy crowd of students pushed to fill the room and line up along its walls. Obviously they came weekly not knowing (probably also not much caring) what to expect, and I wondered if they would quiet down. The reply of my companion struck me as very significant. 'Oh,' he said, 'they will be a docile audience if, one, you stop by 12:50 so that they can get their lunches, and, two, are very careful not to say anything in favor of either religion or morality.'"

## California Tech

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# SPORTS

## Webmen Lose To Oxy; Conference Meet Here

In the final dual meet of the 1963 Swimming Season held last Friday in Alumni Pool, traditional rival Occidental College handed the Caltech varsity team a 38-56 defeat. The margin of victory for Occidental was provided by very close victories in the two relay events; Oxy won the 400 yard medley relay by just a touch and took the 400 yard freestyle relay by only three seconds. Tech's Freshmen team captured the final event, the freestyle relay, to tie the Occidental frosh 45-45.

George McBean was again high scorer for the varsity, winning the 50 yard freestyle in :23.7 seconds and the 100 freestyle in :52.9 seconds. D. Demirliloglu captured the 200 yard butterfly, Dave Seib won the 500 yard freestyle, and Chuck Smythe amassed 95.65 points to win the diving event for Tech's only other victories.

Caltech freshmen established three school records and one conference record in their meet. The medley relay team of Bill Owens, Pat Miller, Rich Nielsen, and Larry Anderson posted a 4:10.0 mark for a school record, although they did not win the event. The freestyle relay team

of Owens, Nielsen, Anderson, and John Walter set another school mark of 3:41.6. Anderson also sped to a :51.8 clocking in the 100 yard freestyle to establish both a Conference and school record for freshmen.

Caltech is again hosting the Conference Championship Swimming Meet, and The Tech varsity team is the defending league champion. Preliminaries were held yesterday and the finals will begin tomorrow at 3:30 p.m.

## Netters Downed By CHM

Claremont's undefeated tennis team rolled over the Caltech varsity last week by the score of 8-1. The match was much closer than the score indicates, but the better team won. The Beavers now face the easy part of their schedule with four matches which they should, with a little work, be able to win.

The only winner against CHM was Dave Owen, 6-3, 6-8, 7-5. Other scores were: Butch Niell, 4-6, 1-6; Frank Curtis, 4-6, 9-7, 3-6; Al Limpo, 1-6, 6-8; Ray Plaut, 1-6, 1-6; Don Green, 4-6, 5-7; Niell-Limpo, 6-8, 5-7. The next challenge for the Techmen will be

## Baseballers Edge Past CHM For Second Straight Victory

The Caltech baseballers scored their second straight victory over CHM last Wednesday, when they won 8-7 in a game played at Claremont. Bill Ricks pitched well through most of the game until the ninth inning, at which time Dave "Reliable" Hewitt came in to put out the fire. Bill Weber hit three pop fly balls which normally would have been outs, but with the tricky wind went for base hits. Jerry Gowen, Gary Dahlman, and Barry Moritz also connected for safeties. The Tech nine led all the way, at one time by a margin of 8-3, but it took Hewitt's "Anticipation Ball" and a diving catch by Moritz to make the final out, with the winning run at the plate.

This season is already the best a Caltech baseball squad has en-

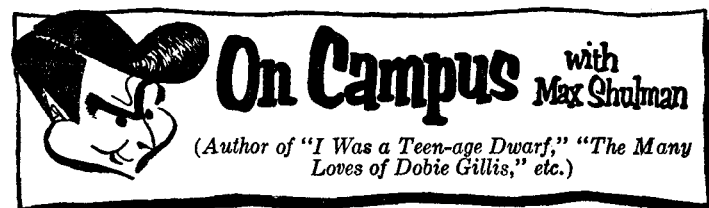
joyed in several years, and much more remains for the future. With doubleheaders against Pomona and Redlands coming up soon, the varsity may well move into fourth place in the league standings.

Interesting statistics up to the Claremont game include: Dave Hewitt has yet to give up an earned run in 17 innings of league play; Dave Barker has 8 hits in 16 trips, for a .500 BA.

## Whittier Downs Tech Trackmen

Whittier sent a strong varsity track team to Caltech last Wednesday afternoon and won eleven events out of sixteen to capture the varsity meet 90-49.

Tech did manage to win five events. Ken Brown beat two Whittier opponents in the 100-yard dash. The high jump was won by John Letcher as he cleared the bar at 5 ft. 10 in. Steve Garrison took an easy first place in the pole vault and George Radke threw the discus 138 ft. to win that event.

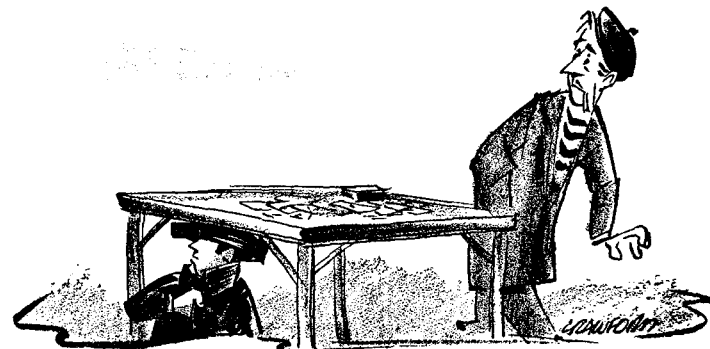


## HOW TO SEE EUROPE FOR ONLY \$300 A DAY: NO. 2

Last week we discussed England, the first stop on the tour of Europe that every American college student is going to make this summer. Today we will take up your next stop—France, or the Pearl of the Pacific, as it is generally called.

To get from England to France, one greases one's body and swims the English Channel. Similarly, to get from France to Spain, one greases one's body and slides down the Pyrenees. And, of course, to get from France to Switzerland, one greases one's body and wriggles through the Simplon Tunnel. Thus, as you can see, the most important single item to take to Europe is a valise full of grease.

No, I am wrong. The most important thing to take to Europe is a valise full of Marlboro Cigarettes—or at least as many as



*He introduced shortness to France*

the customs regulations will allow. And if by chance you should run out of Marlboros in Europe, do not despair. That familiar red and white Marlboro package is as omnipresent in Europe as it is in all fifty of the United States. And it is the same superb cigarette you find at home—the same pure white filter, the same zesty, mellow blend of tobaccos preceding the filter. This gem of the tobaccoist's art, this prodigy of cigarette engineering, was achieved by Marlboro's well-known research team—Fred Softpack and Walter Fliptop—and I, for one, am grateful.

But I digress. We were speaking of France—or the Serpent of the Nile, as it is popularly termed.

Let us first briefly sum up the history of France. The nation was discovered in 1066 by Madame Guillotine. There followed a series of costly wars with Schleswig-Holstein, the Cleveland Indians, and Jean Jacques Rousseau. Stability finally came to this troubled land with the coronation of Marshal Foch, who married Lorraine Alsace and had three children: Flopsy, Mopsy, and Charlemagne. This later became known as the Petit Trianon.

Marshal Foch—or the Boy Orator of the Platte, as he was affectionately called—was succeeded by Napoleon, who introduced shortness to France. Until Napoleon the French were the tallest nation in Europe. After Napoleon most Frenchmen were able to walk comfortably under card tables. This later became known as the Hunchback of Notre Dame.

Napoleon, after his defeat by Credit Mobilier, was exiled to Elba, where he made the famous statement, "Able was I ere I saw Elba." This sentence reads the same whether you spell it forward or backward. You can also spell Marlboro backward—Orobloram. Do not, however, try to smoke Marlboro backward because that undoes all the pleasure of the finest cigarette made.

After Napoleon's death the French people fell into a great fit of melancholy, known as the Louisiana Purchase. For over a century everyone sat around moping and refusing his food. This torpor was not lifted until Eiffel built his famous tower, which made everybody giggle so hard that today France is the gayest country in Europe.

Each night the colorful natives gather at sidewalk cafes and shout "Oo-la-la!" as Maurice Chevalier promenades down the Champs Elysees swinging his malacca cane. Then, tired but happy, everyone goes to the Louvre for bowls of onion soup.

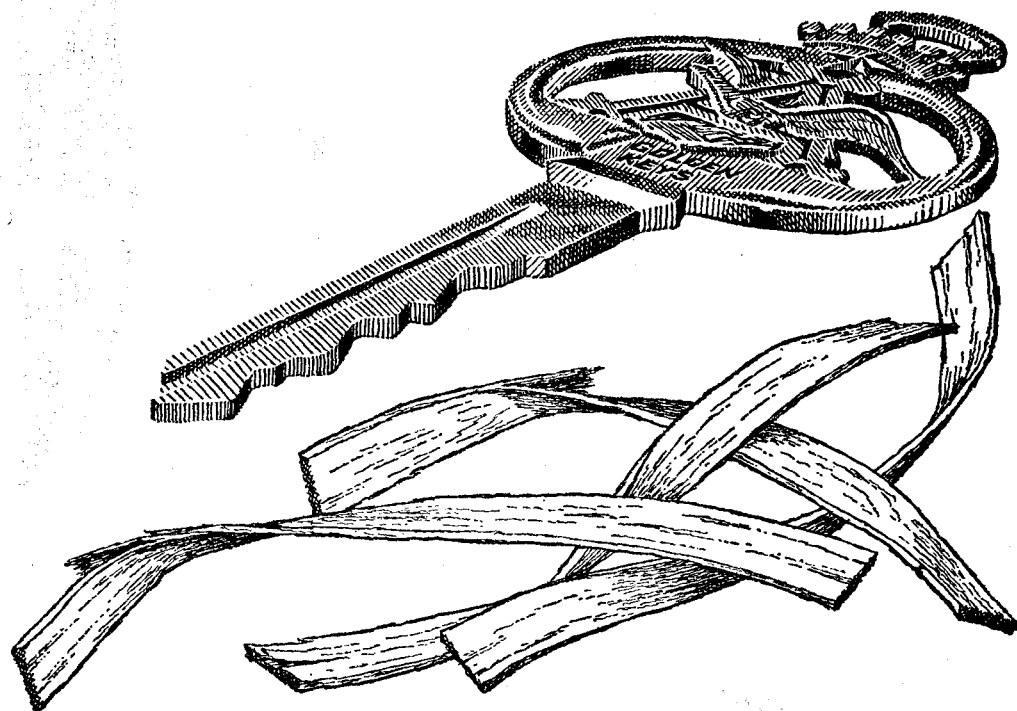
The principal industry of France is cashing travellers checks. Well sir, I guess that's all you need to know about France. Next week we will visit the Land of the Midnight Sun—Spain.

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\* \* \*

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# Brewins



"The ignorant work for the fruit of their action."

—Bhagavad-Gita

It comes to Beak's attention that after last Saturday Munch, certain of the denizens of Redfowl House were celebrating the arrival of Timesaving to the glorious Southwest with late-nitely mixed activities. Some participants chose not to return to their roommates till the wee-small hours, and assuredly the undeclared champ was the legendary Son of Nell, whose Nordic wench brought him back at the toll of ten. By far the fascinatingest tale concerns one Nil, who returned with seven strikes; according to him: 2400, Lv Tek; 0100 = 0200, Ar Mugu's in holly-woods; 0200-0300, influx of vittles; 0300, Lv Mugu's; 0400, Ar Pas.

## Logic

Unfortunately, said Nil's filly's fatherly parent earnestly requested presence of offspring back at nest on or before 0200. Thus, rather than disappoint tottering old fellow, Nil decided to wait for departure of said parent for saltmines at 0545, so that confrontation is narrowly avoided. However: 0530, mater calls Redfowl ra, with "Where's my dotter?" (said ra having himself arrived near phone at 0500) and threats of action by gend-armerie; 0545, totterer totters for salt; 0600, Ar Nest of Filly, by Nil et al; 0615, return of totterer and ensuing etc.; 0700, Nil wearily totters to roommate, with flecks of foam about oralness.

PS: Veracity of Nil's story was completely unsubstantiated by check on miles traveled by car, borrowed by Nil from Tekedjc. Odometer reading indicated impossibility of recent jaunt to holly-woods. All this aside from fact that location of Mugu's slipped Nil's mind when questioned.

## AutoRF

Ragefrosh Ag was recently

## Course Changes

(Continued from page 1)

year. Also dropped is Bi 110; added is Bi 119, Advanced Cell Biology, with prerequisites of Bi 9 and Bi 107. This new course will be offered alternate years starting 1963-64.

The undergraduate Geochemistry option has undergone major revisions:

"First year: no change.

"Second year: 'Strongly urge' student to elect Ch 41abc and Ch 46abc (total of 10 units each term), leaving nine units of electives.

"Third year: Require three terms of Physical Chemistry (Ch 21abc) instead of two terms of Ch 24ab. Require Ge 114 and Ge 115ab (12 units each term) instead of Ge 104abc. 'Strongly urge' Ge 130ab (six units each term). Ge 123 (Summer Field Geology) required.

"Fourth year: 'Strongly urge' students to elect Quantitative Analysis (Ch14, 10 units) first term, and Physical Chemistry Laboratory (Ch26ab, eight units) second and third terms. Require Ge 115c (10 units) first term."

turned into Basemetal before very eyes of onlookers. During his weekend voyage to Home and Hearth, room of said Agfrosh was broken and entered by jolly playmates. Playmates then filled all possible cavities in room with appropriate fillings. Then, to culminate frustration, door of room was devoided of lock innards, so that rotation of knob produced negligible effect.

Upon arriving back at Rage, Agfrosh and paterfamilias were engagingly PO'ed at inability of

knob to function properly. Jolly playmates presently offered to rectify problem as a Publicservice, then found their hyperrf was an autorf: they too were out of it.

Solution: telekinesis of helpful emissary by transubstantiation of energy barrier through nextdoor pullman, rectification of door, end of problem. Interestingly, this marks the second time frosh lockster has pulled autorf and was forced to seek outlet through telekinesis.

## NOTICE

Both the amendments to the ASCIT by-laws received the necessary 2/3 vote in Tuesday's election. TECH subscriptions will now be \$3.00 per year and the year-book assessment \$6.00 per year.

Drugs Sundries Cosmetics Tobaccos  
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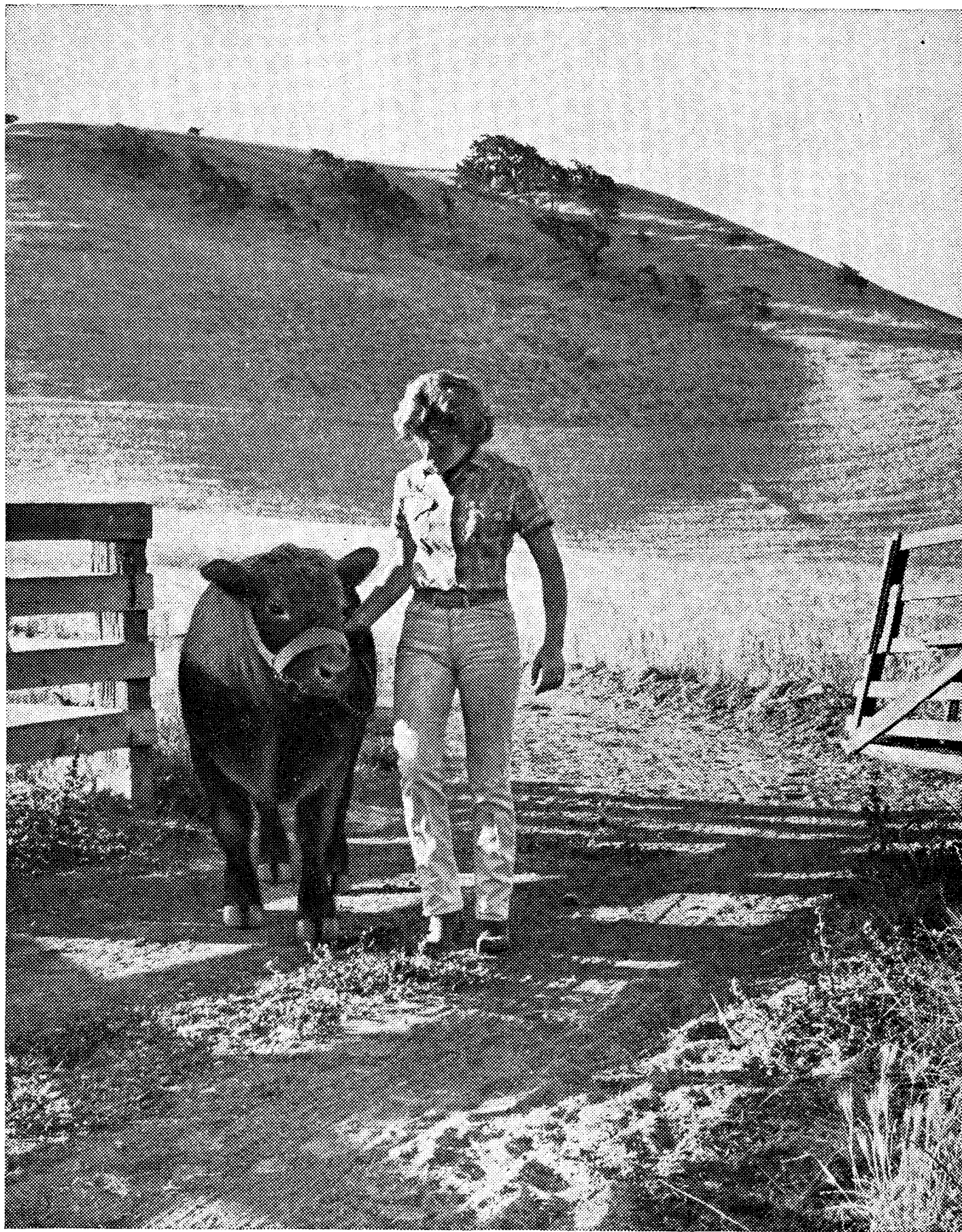
PRIVATE INSTRUCTION

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## Do you think Charlie can win a ribbon?

That's what Joan Anderson, 4-H girl, is striving for: a blue ribbon for Charlie at the County Fair.

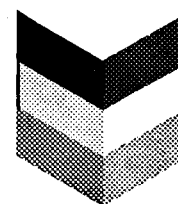
Working for excellence is one of many fine principles which the 4-H Club and Future Farmers of America inspire in their youthful members.

Honoring their purposes, our Company annually provides 74 first-year college scholarships for 4-H and

FFA to award to deserving members in the West, Alaska and Hawaii.

Joan Anderson plans to apply for one of these.

This is part of the nearly \$1½ million we contribute annually for scholarships, fellowships, grants, services and materials for schools. We deem it a privilege to give this support.



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