

## Nominations on February 9

### Richard Robinson, third AUFS representative, here Monday

Mr. Richard D. Robinson, the third member of the American Universities' Field Staff to visit Caltech, will arrive on campus Monday, February 6. Mr. Robinson is an expert on Turkish affairs and will address several campus groups during his ten-day stay here. He has devoted eight years to the study of Turkish affairs, spending most of the time in Turkey for on-the-spot observation of economic trends, political movements, labor organizations, and developments in agriculture and religion. This is the second visit to Caltech that Mr. Robinson has made under the auspices of the AUFS. Since his visit in 1953, he has spent a year at the University of London studying Turkey, and a year in Turkey.

The AUFS was originated by Caltech and a number of other colleges to promote a greater understanding of other countries. An AUFS member spends some time in a country and returns to colleges in this country to tell his impressions of the country that he has visited.

While he is here, Mr. Robinson will visit the faculty members and address student groups. His program calls for lunch with the Y Undergraduate Lunch Club, a discussion with the Y Grad-Faculty Luncheon Forum, and several sessions with class groups. He will also help Caltech's Turkish delegation to the Model UN.

### Regatta will begin Friday

The Third Annual Caltech-Los Angeles Yacht Club Intercollegiate Invitational Regatta will be held this weekend (February 4 and 5) at the Los Angeles Yacht Club at Terminal Island.

The four-man teams representing Orange Coast, Occidental, Pomona, Santa Barbara, UCLA, and Caltech will sail in Caltech's fleet of six 13-foot Glascat dingies.

Racing for Caltech will be Gordon Fullerton and Ron Wann, skippers, and Chuck Helsley and Dave Gardner, crew members, with Jan Arps, captain.

## Douglas gives realistic impression of Soviets

by T. S. Dodge

"There has been so much evil in Communism . . . we tend to overlook the accomplishments of a socialistic government." These were the words of Supreme Court Justice William O. Douglas as he addressed the Caltech student body concerning "Soviet Russia 1956." He further commented, "I wish to inspire more realistic thinking in these fields. One must travel to get in closer contact with peoples of various lands. I want to expose you to a world different than you will encounter in the press." Justice Douglas is a man who has traveled widely, and who is not equivocal in relaying his impressions.

There has arisen since the

death of Stalin a new socialist aristocracy, that of the bureaucrats. Most of the present rulers of Russia are somewhat relieved that Stalin is dead, because their lives were very much in question when he was alive. These men like their present system of government because it affords them the prestige they now enjoy.

These products of the system, the new aristocrats, are playing a new game, and playing it well: the game of power politics. They are, "far more dangerous than we can realize." Justice Douglas cautioned, "those who think there has been any change except in strategy are sadly mistaken."

### Ingersoll will give demonstration talk this Friday night

"An American Professor in India" will be the title of this week's Friday Evening Demonstration Lecture, to be given by Dr. Alfred Ingersoll in 201 Bridge, 7:30 p.m.

Dr. Ingersoll, a Point Four Program specialist in engineering fluid mechanics, served at the Bengal Engineering College in Sibpur, India, during the 1954-55 academic year. Dr. Ingersoll will illustrate his talk with color pictures and slides taken during his stay.

A Caltech faculty member since 1950, Dr. Ingersoll is a graduate of the University of Wisconsin, where he also received the MS and PhD degrees. He is a member of Tau Beta Pi, the American Society of Civil Engineers, American Geophysical Union, American Waterworks Association and Chi Epsilon, and is co-author of two books, "Heat Conduction with Engineering and Geological Application" and "Fluid Mechanics."

## ASCIT Charities Drive to open Monday, February 13

The annual ASCIT Consolidated Charities Drive will be held on the Caltech campus February 13-17 this year. Howard Berg, ASCIT Vice-President, will serve as general chairman of the drive.

Four charities will be included: World University Service, The American Cancer Society, The American Heart Association, and the Pasadena Community Chest.

Of these charities, World University Service is entirely supported within the university community and serves students throughout the world, particularly in Asia. Projects include

## 1956 ASCIT officers will be nominated next Thursday

The ASCIT elections will be held Thursday, February 23. At that time men will be chosen to serve in the various offices from the beginning of third term this year until the end of second term next year. Those offices to be filled at the election are: president, vice-president, secretary, treasurer, first representative-at-large, second representative-at-large, athletic manager, publicity manager, rally commissioner, head yell leader, editor of the *California Tech*, business manager of the *California Tech*, editor of the *Big T*, and business manager of the *Big T*.

### Pitzer voted frosh veep

In the freshman run-off elections which were held last Thursday, January 26, Russ Pitzer was elected vice president, Neal de Gaston secretary, and Frank Childs treasurer, and Doug Carmichael, Board of Control member.

One Board of Control member has not yet been elected. Jim Cribbs and Bill McClure are running for this office in the second run-off election, being held today.

Defeated in last week's run-off were Frank Cormia for vice-president, Dave Allen for secretary, George Logemann for treasurer and Bob Huebotter for Board of Control.

The nominations assembly will be held at Culbertson at 11 a.m. on Thursday, February 9. Nominations for all offices which are uncontested will be open until one week later, February 16. ASCIT President Phil Conley has requested that all candidates planning to be nominated at the assembly inform him of their names and who will nominate them before the assembly starts.

The official election campaign will be conducted February 20-22. Every candidate must have his posters, handbills, and other campaign publicity matter approved by ASCIT publicity manager Craig Elliott before they are made public.

The duties of the various officers are as follows:

#### President

The president shall be the official representative of ASCIT in all of its dealings with the outer world. He presides at all of the meetings of the corporation. He is chairman of the Board of Directors, and is a member of the Board of Control and the Athletic Council.

#### Vice-President

The vice-president takes over the president's duties during his absence. He is chairman of the

(Continued on page 4)

## Douglas and wife guests of honor at Y open house

An open house with Justice and Mrs. Douglas as guests of honor tomorrow night at 8:30, and an after game dance in Ricketts House Saturday night, immediately following the Caltech-Redlands basketball game, make up the student social program for this weekend.

At the home of Ed Hutchings, 2396 Highland Street, Altadena, the open house in honor of Justice and Mrs. Douglas will be held. Hutchings is the editor of "Engineering and Science," the Institute magazine. The event is sponsored by the Caltech "Y" as part of its "Leaders of America" program. All students are invited and dates are welcome. The "Y" has asked that those who plan to attend notify the "Y" office before Friday night if possible.

Right after the Caltech-Redlands basketball game, which will be played in the Scott Brown gymnasium here on campus, the Ricketts open house will be held. All students and their dates are invited to attend.

## Spates appointed industrial lecturer

Thomas G. Spates, professor emeritus of personnel administration at Lake University, has received the first appointment as Arthur H. Young Visiting Lecturer in Industrial Relations at the California Institute of Technology.

As visiting lecturer, Mr. Spates will spend one week with the Industrial Relations Section in February, 1956.

(Continued on page 3)

# LETTERS TO THE EDITORS

Sir:

Most of the crusades that have been mounted in your paper have struck me as somewhat unimportant, so I have never felt compelled to comment on their method of presentation. Your latest effort, however, is a subject of vital concern to everyone at Tech, and I feel that your editorial hardly does your subject or your intentions justice.

At the outset let me say that I completely agree with your thesis that the attitude of a large part of the faculty toward the students is one of indifference, even on the part of some who should know better. But what did you hope to accomplish with your editorial? The members of the faculty who recognize the problem and worry about it will say, "Yes, I know, but what are we going to do about it?" The indifferent ones will just be repelled by the self-righteous attitude of this loud-

moutherd rabble-rouser and wave it off as "just griping."

By self-righteous attitude I mean sitting back, scowling at the faculty, and saying "Make me laugh," daring them to make you happy. It is either forgotten or ignored that morale cannot be forced upon a person without his consent or help.

I feel that, just as the faculty has been lax and indifferent, the students have failed to keep their end up. I have heard a lot of griping about the lack of student-faculty contact, e.g. last week's letter to the editor. Some of those doing the griping must know that each house is given forty free meals per term, for the express purpose of entertaining guests. This amounts to a guest four days a week, or a guest and his wife twice a week. How many of these meals are used? The answer is they go abegging.

Another means for student-faculty get-togethers has been

the Faculty Fireside, which the officers of the "Y" have evidently decided were not worth the trouble. It is true that these invariably involve the taboo against discussing a man's own field, i.e., you can't talk about the subject the man knows best, can teach you most about, is most interested in, and is probably the reason you're interested in the guy at all. I do not mean to say that firesides should become classes, but that no field should be excluded.

These are just a couple of instances of where the students are falling down. I hope nobody will conclude from these remarks that I think the faculty is blameless—far, far from it. I only wanted to point out that the responsibility is not theirs alone, and that more will be accomplished by dispassionate discussion than vitriolic denunciation, and more by self-help than by self-righteousness.

Harvey S. Frey

## NAS offers wide variety of tours to American students

If sufficient interest can be generated and adequate provisions can be made, twenty to thirty university students from the United States may have the opportunity to trade places with an equal number of their brothers in the Soviet Union. The National Students Association, of which Caltech has recently become a member, is at present trying to work out the details prior to instituting an exchange of students with Russia. Only once before, in the summer of 1954, were American students of Soviet affairs allowed to visit Russia.

If the proposed exchange of students with Russia actually takes place, it will be due to the joint efforts of the NSA Student Congress and the Anti-Fascist Committee of Soviet Youth, the latter being an organization which purports to be a national union of Russian students. In August of 1955, soon after the completion of the Geneva Conference, the Congress received a proposal for student exchange from the Anti-Fascist Committee which they in turn referred to its member schools to handle.

NSA itself has suggested several alternate plans as to how the mechanics of the exchange

would be handled. They can all be placed in one of two categories: Either the visiting student lives in a dormitory or fraternity house paying his own room and board, or else the host college or university assumes all financial responsibility for the exchange student. Of course possibility of consummating the proposed exchange will depend strongly on the interest shown by American students, especially those whose schools are members of NSA.

Although trips to Russia are still only subjects for conjecture, the travel bureau of NSA does much to aid the American student who wishes to obtain a first-hand picture of foreign lands. By providing students with a variety of tours, most of which cost a relatively small amount, NSA has been a powerful factor in creating good will for the United States abroad.

Perhaps the most famous travel plan which NSA offers is their Hobo Tour. The Hobo Tour costs the student \$650, for which cost he will spend 72 days in seven major European countries including Holland, Germany, Austria, Belgium, Italy, Switzerland and France. In Europe, students will travel in motor coaches, and trans-Atlantic passage will be provided by the NBBS line, operated by the Dutch government.

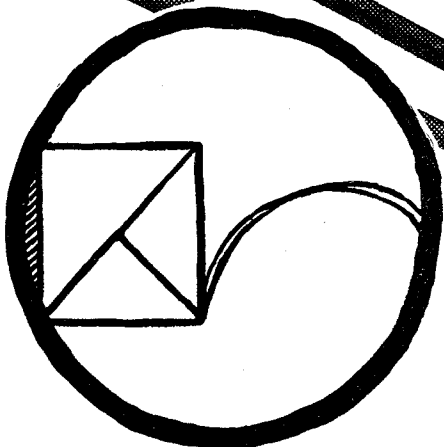
In addition to the Hobo Tour, NSA offers various other travel plans, some of which are quite specialized. For instance, for the student engineer NSA organizes a 75-day tour costing 885 dollars through England, Holland, Belgium, Switzerland and Germany.

Tours similar to the one described above are available in the fields of journalism, student government, sociology, business and commerce, education and medicine. There are, as well, North-South tours, East-West tours, Central European tours, cycle tours, sports tours and many more. The cost of most range between 700 and 900 dollars, and they last for 75 days. Application forms for tours may be had by writing to Educational Travel, Inc., 48 West 48th Street, New York 36, New York.

**HEY, SLOW DOWN! WATCH THESE LUCKY DROODLES!**

**WHAT'S THIS?**

For solution, see paragraph below.

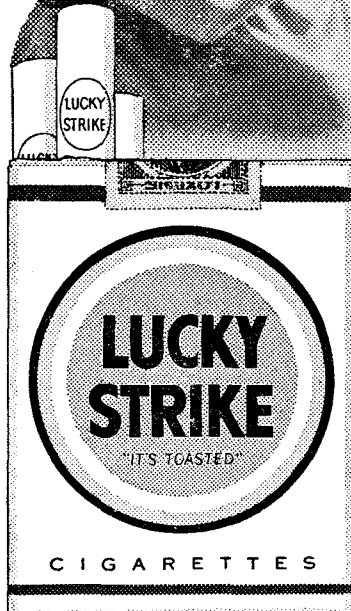


**QUICK WAY TO BETTER TASTE:** It's illustrated in the Doodle above, titled: Lucky smoker opening fresh pack. (He's merely doing away with a little red tape.) Better taste is what he's after, and better taste is what he'll get. Luckies taste better, you see, because they're made of fine tobacco . . . light, mild tobacco that's **TOASTED** to taste better. Break out a pack of Luckies yourself. You'll say Lucky Strike is the best-tasting cigarette you ever smoked!

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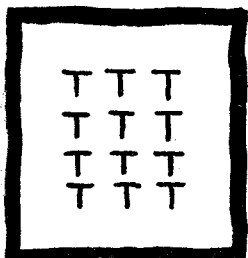


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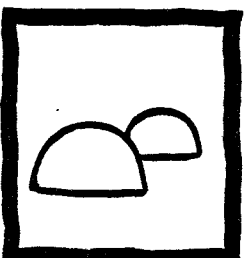


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# Let's ditch that yellow

Although everyone realizes that most of the rooms in the student houses are painted with a non-aggressive color known as "institutional yellow," not everyone realizes that Room 34 Ricketts is sporting a bright blue. If you want to see it, better hurry—you may already be too late—for the powers that be have asked that the yellow be restored by Monday.

It is a good idea to tell the inhabitants of that particular room to wash off the blue. Another good idea—one that has circulated quite a bit for the last couple of weeks—is to stop painting all the rooms that sickly yellow, and set up some scheme whereby a little color can find its way into the student houses.

After all, a Caltech student stares at yellow walls for the whole length of his weary day—in the classrooms, up and down the halls, in the lounges—varied now and then by a fading white or a darkling grey. So it is hardly a mental lift to return at night to one's room, only to find the same color (more or less) gloating at you from your own walls.

If the cost of coloring the rooms in some different way was prohibitive, or the policy was too complicated, there might be good reason to leave the yellow where it is. But it is hard to see any insurmountable obstacle to introducing colors.

A plan has been proposed which seems to meet this problem squarely, and we would like to endorse it.

The plan is simply to replace the one color, yellow, with about four basic colors—one of which might be the present yellow, the others inoffensive pastel shades of blue, green, rose, or what have you. There would be approximately the same number of rooms of each color, distributed evenly throughout the houses.

The additional expense would not be great—perhaps no more than the expense of mixing up three additional batches of paint. The effect on the houses, though, we feel would be great indeed—giving the rooms a lightness, a warmth, a variety which now are sadly lacking.

What if some students don't like the colors? Well, not very many are particularly attached to institutional yellow, either. And a student can take color into account during room drawings—just as he takes into account size, position, etc.

At present the Institute has no cut-and-dried policy on painting the houses—just about every summer those alleys are done which need a new job the worst. We would like to see some of those rooms turn up rose this year, some more blue next year—or some such scheme; so that a few years from now the rooms in the houses can be more than just clean and acceptable—they can be attractive, colorful, and cheerful.

# A note of gratitude

The following editorial is quoted verbatim from a bulletin of the Associated Collegiate Press, and we endorse it word for word.

A disheartening report on college journalism—editorial suppression—was brought out into the open in Detroit where about 800 delegates representing college and university newspapers and yearbooks met for the annual Associated Collegiate Press (ACP) conference.

Suppression of the right of the editor to speak freely came from at least half a dozen persons who complained that there is pressure being exerted on them not to print certain things or that college officials are allowing themselves the privilege of reading stories before printed.

One editor said that all material for his paper had to be read and approved by the college president before it could be published.

The reason given for this practice is that some administrative officials are sensitive about public relations and don't want anything they consider derogatory published which could damage the school in the eyes of the state legislature which holds the purse strings.

To this comment came the reply that college and university presidents and their associates realize the long-range possibilities and goals of their schools while some of the editors seem to be shortsighted in their editorializing.

There is a clear danger in the type of editorial which attacks the college without a realization of possible undeserved damage or is written from a perverted sense of power.

But any newspaper—college or other—which is controlled soon becomes nothing more than a bulletin board with no strength to improve the community.

With this inability to show need for improvement is the development of a cloak of secrecy where only the "right" people know what is going on. A college official who suppresses a campus newspaper is suppressing freedom and is admitting he's afraid of something—himself.

Techmen who agree or disagree with the points of view brought out in the editorials in the *California Tech*, often in strong language and sometimes severely critical of Institute policies, should keep in mind that Caltech is outstanding in its liberal treatment of student activities and student publications.

If we thought it necessary, we would preface every editorial with a grateful note to the administration thanking them for our right to print it without asking permission. But we hope that the Institute community understands without our saying so that we fully appreciate our rare and lucky privileges.

# Justice Douglas

(Continued from page 1)

students to attend college, also, take note Congress, "those who attend college are wholly exempt from military service."

A student has wide latitude in choosing his vocation. His decision must be tempered, of course, by various entrance examinations to the college of his choice. The choice of working location is not so liberal. Usually the state will determine where the graduate is to work.

Roughly six million out of two hundred and ten million persons in Russia are Communist Party members. This is not surprising when one considers the tribulations that one must endure to become a party member. Children in the age group of from seven to fourteen years attend "Pioneer Camp" during the summer. If one proves himself to be a leader among men, at the age of fourteen he is eligible to become a member of The Young Communist League. One's membership in the League continues, providing he lives up to accepted standards, until he is twenty-five. He is then eligible to become a member of the Communist Party, but not everyone

**California Tech**

Editors-in-Chief—**Dick Hundley** and **Marty Tangora**  
News Editor — **Dick Kirk**

News Staff.....Barry Bass, Jim Coe, Bill Hecht, John Lango, Ed Park, Mike Peters, John Price, Mike Talcott, Jim Wilkinson  
Feature Editor — **Frank Kofsky**

Feature Staff.....Tom Dodge, Craig Elliott, Karl Klutz, Stu Richert, John Lansingh, Al Farley  
Sports editor — **Dick Van Kirk**

Sports Staff.....**Brent Banta**, Don Lewis, Bob Walsh

Photo Staff.....Stu Bowen, Don Nierlich, Dennis Paul, Dave Groce  
Business Manager — **Dan Chilton**  
Circulation Manager — **Dave Leeson**

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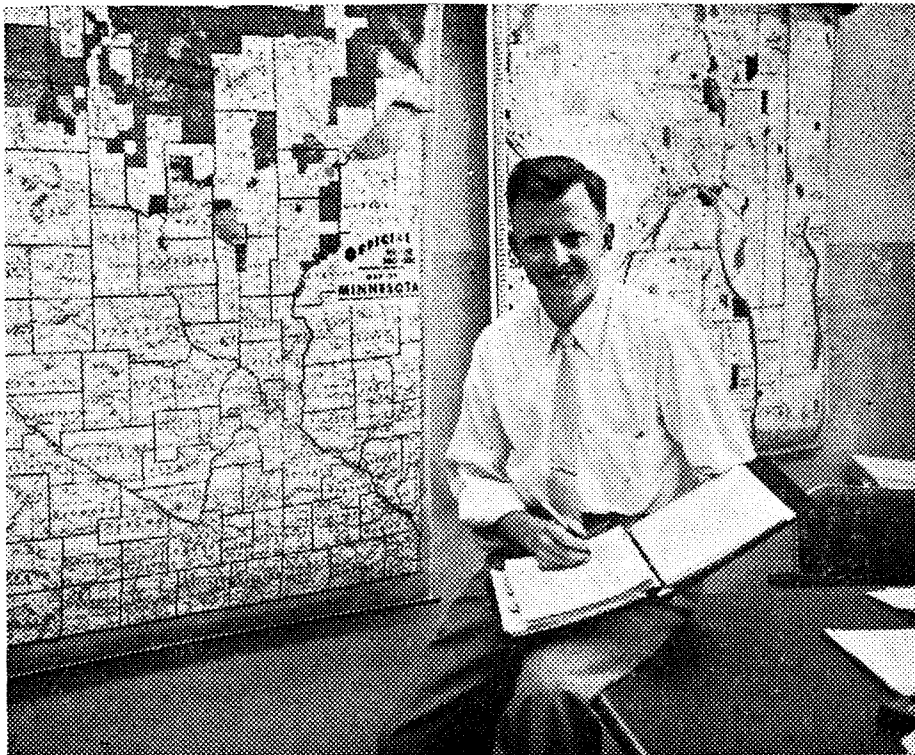
All farms in Russia are either collectivized or state owned and operated. They are graduating twenty-five thousand agricultural experts a year from their universities, and every state or collective farm has from twenty-five to thirty-five of these experts. Russia is very short of beef and dairy products. "However," Justice Douglas cautioned, "the Russian people are healthy, they are not about to starve to death. Russia is far, far ahead of the agricultural economy of Asia."

The farmer's market is one of the last vestiges of capitalistic enterprise remaining in the Soviet Union. "The private market in Russia is a great place to study the law of supply and de-

mand. It's a little capitalistic alcove in a Communistic regime. There they can charge what the market will bear. Coupled with this is the advantage that the farmer's income from this market is tax exempt, said Justice Douglas. "The desire of the profit motive is strong—the Communists have not changed human nature."

Justice Douglas presented this challenge, "I feel the desire of the Russian people for peace is sincere. It is the problem of our generation to mobilize this feeling and work out some kind of co-existence. Any other alternative is out of the question. The people who are thriving under this system have great pride in it; there is no danger of it collapsing."

## A Campus-to-Career Case History



## "One open door after another"

"That's how I feel about the telephone company," says Walter D. Walker, B.E.E., University of Minnesota, '51. "When I joined the company I felt that I could go in any direction. And that's the way it's been."

"For the first six months I was given on-the-job training in the fundamentals of the telephone business—how lines are put up and equipment installed. Learning those fundamentals has really paid off for me."

"Then I had the opportunity to go to the Bell Laboratories in New Jersey. I worked on memory crystals—ferroelectric crystals—for use in digital computers. I learned how important research is to the telephone business."

"After two years I came back to Minnesota, to St. Cloud, to work in the

District Plant Engineer's Office. There I made field studies of proposed construction projects and drew up plans to guide the construction crews. This combination of inside and outside work gave me invaluable experience."

"In July, 1955, I came to Minneapolis as an Engineer in the Exchange Plant Extension Engineer's Office. We do forecasting—not of the weather, but of future service needs. Using estimates of growth and economic studies, we make our plans for the years ahead. We figure out where and when new facilities will be needed to meet future growth."

"All this has been preparing me for a real future. You see, the telephone company is expanding by leaps and bounds. That's why it offers a young man so many open doors."

**Wally Walker's career is with Northwestern Bell Telephone Company. Similar career opportunities exist in other Bell Telephone Companies, and in Bell Telephone Laboratories, Western Electric and Sandia Corporation. Your placement officer has more information regarding Bell System companies.**



**BELL TELEPHONE SYSTEM**

## row 6, number 13

By Al Farley

The Boston Pops Orchestra, conducted by Arthur Fiedler, made its West Coast debut last Tuesday night to a packed house in Pasadena Civic Auditorium. The concert was definitely an unusual experience.

The program opened with the Polonaise from "Eugen Onegin" by Tchaikovsky. The orchestra handled this seldom-heard work indifferently. Of the following three numbers, Rossini's Overture to "The Barber of Seville," Vaughn-Williams' "Fantasia on Greensleeves," and Offenbach's "Gaité Parisienne," the Vaughn-Williams work suffered the least from its treatment by the orchestra.

Ruth Slenczynska then made her appearance as piano soloist in Rachmaninoff's "Rhapsody on a Theme of Paganini." Miss Slenczynska displayed a sure-fingered technique, although a tendency toward mechanical regularity was apparent in the slower passages.

Rimsky-Korsakov's "Capriccio Espagnol" suffered most from the Pops' theater orchestra style. In a work of this nature,

where orchestral color and tone play such an important part, its shrill brass and thin strings were completely out of character.

The remainder of the program, which consisted of a popular medley, Grofe's "On the Trail," and the "Look Sharp—Be Sharp" march, was the type of material that has established the Pops as a singular musical institution. Once in its element, the genuineness of the orchestra's playing inspired the audience to call for four-count 'em-four encores. The selections in these encores undoubtedly provided the musical high point of the evening, including everything from Debussy to Spike Jones. (Fiedler is an honorary fire chief in more than 20 cities.)

L. A. Phil

Alfred Wallenstein, Music Director of the Los Angeles Philharmonic Orchestra, returned after an absence of eight weeks to conduct an all-Mozart program last week in Philharmonic Auditorium. The soloist was violinist Isaac Stern.

The orchestra handled the opening number, the Overture

to "The Magic Flute," adequately if not outstandingly. The performance of the Divertimento No. 15, K 287, was hampered by the use of a large string section. Unfortunately, this work is heard to much better advantage when performed by an orchestra of chamber proportions. Sinclair Lott acquitted himself well in the horn passages.

The highlight of the program was Mr. Stern's delicate handling of the Violin Concerto No. 3, K. 216. Mr. Stern, not prone to showiness of any form, demonstrated wonderful control and a lightness of touch that was just in the spirit that Mozart requires. Wallenstein and the orchestra contributed a responsive but comparatively full-bodied accompaniment.

The concert concluded with a performance of the Symphony No. 41, K. 155. It was a satisfying rendition although Wallenstein's routine conducting lacked the deftness and crispness of Sir Thomas Beecham's recorded version. The superlative woodwind section of the orchestra again performed with distinction.

## ASCIT nominations set for next Thursday's assembly

(Continued from page 1)

Board of Control. He is also a member of the Honor Point Committee. In addition to these duties, he serves as chairman of such things as the charities drive and blood program.

**Secretary**

The secretary keeps a record of the proceedings of the meetings of the corporation and of the Board of Directors. He also keeps a record of the proceedings of the Board of Control. He carries on all ASCIT correspondence, and is responsible for posting notice of meetings and reports of meetings whenever they are necessary.

**Treasurer**

The treasurer's primary duties are to receive all money belonging to the corporation, bank it, and keep a full account of money expended and received. Unlike all of the other officers, the treasurer does not take office until the beginning of first term next year.

**First Rep.**

The first-representative is the ASCIT social chairman. He is in charge of the various ASCIT

social events, such as the formal, the Christmas dance, and the "Lost Weekend." In addition to this he is a member of the honor point committee. The first rep. must be a sophomore or a junior at the time of his election.

**Second Rep.**

The second rep. is a member of the Honor Point Committee. In addition to this he keeps the bulletin board in lower Throop up-to-date and helps the California Tech to maintain a calendar of campus activities. At the time of his election the second rep. must be a freshman.

**Athletic Manager**

The athletic manager is a member of the Athletic Council. He is in charge of all athletic award banquets and assemblies. He presents recommendations for awards and procures all awards. He recommends team managers for approval by the board of directors.

**Publicity Manager**

The publicity manager's job is to inform local and national publications of the activities of Caltech. He reports athletic affairs, social functions, and the like to various newspapers and to campus publications.

**Rally Commissioner**

The rally commissioner presides over the Rally Commission, the official entertainment committee of the ASCIT. He is responsible for the organization and presentation of assemblies, rallies, student parades, and game preparations.

**Yell Leader**

The head yell leader is responsible for organized yelling at all athletic contests and rallies.

**Tech Editor**

The editor of the California Tech is responsible for the publication and all editorial work done on the paper. The editor receives a salary of \$200 per year.

**Tech Business Manager**

The business manager of the California Tech is responsible for advertising selling and layout, bookkeeping, billing, and financial reports for the newspaper. He receives a 30 percent commission on local advertising and a 4 percent commission on national advertising.

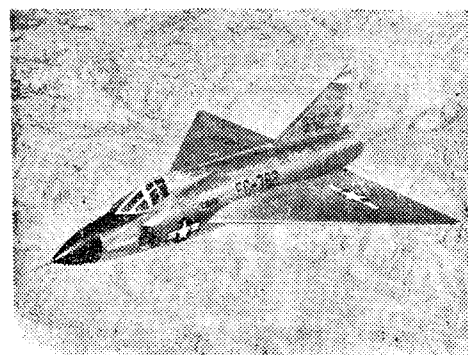
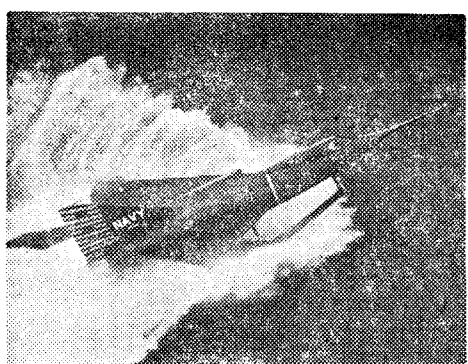
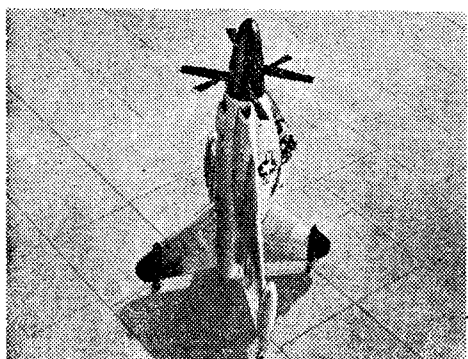
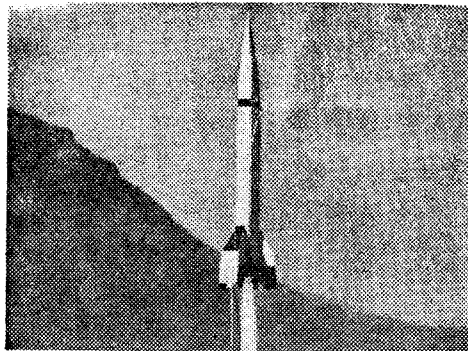
**Big T Editor**

The editor of the Big T is responsible for the editorial makeup of the yearbook. He receives \$175 for the year's work.

**Big T Business Manager**

The business manager of the Big T has the job of selling and advertising for the annual and makeup advertising layout. He also keeps the books and submits the bills. He is guaranteed a 20 percent commission on all advertising sold. If there is a profit, he may make up to 10 percent extra.

All officers except Big T and California Tech officers and yell leaders are on the Board of Directors.



# CONVAIR

(SAN DIEGO)

Representatives will be here, February 14

## TO INTERVIEW

### ELECTRICAL, MECHANICAL, AERONAUTICAL ENGINEERS ABOUT TO GRADUATE

At Convair, in beautiful, smog-free San Diego, California, you will find the diversity of challenging, far-reaching projects that offers you the unlimited career opportunity you seek.

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FEBRUARY 14

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# audience

**music**

A major event in the chamber music season will occur on Sunday, February 12, when the Virtuosi di Roma return to play in the Coleman concert series at the Pasadena Playhouse. This world famous group of musicians, known as the "Collegium Musicum Italicum" is conducted by Renato Fasano, a leader in baroque music of the Neapolitan and Venetian schools.

These musicians, whom Toscanini called "The greatest instrumental ensemble of this age," is composed of 13 players: six violins, two violas (one doubles on viola d'amore), two cellos, bass, oboe and harpischord.

During their brief stay here, three members of the "Virtuosi" will act as judges in the annual Coleman Chamber Music Audition which will be held on Saturday, February 11, at 9:30 in the Pasadena Public Library Lecture Hall.

Their program in Pasadena will consist entirely of works of Antonio Vivaldi. They will play his Concerto in A Minor for Two Violins, Concerto in D Minor for Oboe, Concerto in B Flat for Violin and Cello, and his suite of four violin concerti, "The Four Seasons." Their recording of "The Seasons" has just been released by RCA Victor on His Master's Voice recording No. LHMV 26.

The concert will begin at 3:30 and tickets are \$2.00 and \$3.00. THE BOSTON POPS with Arthur Fiedler conducting plays in Shrine Aud. (See review of Pasadena concert in this week's California Tech) Sat., Feb. 4, 8:30, \$1.65-\$3.30.

THE FIRST NEGRO BALLET performs this Sat, Feb 4, in Philharmonic Aud at 8:30; \$1.10-\$2.75.

GUITARIST ANDRES SEGOVIA will give a recital at the Wilshire Ebell Theater on Sat, Feb 4, at 8:30; \$1.50-\$3.50.

RUDOLF SERKIN appears as piano soloist this week with the LA Phil. Program: "Turandot"; Four Episodes for Orchestra by Einem, Piano Concerto No. 21 by Mozart, Strauss' "Death and Transfiguration" and "Burlesque" for Piano and Orchestra, Philharmonic Aud, tonight 8:30 and tomorrow at 2:15. \$1-\$3.75.

THE BALLET Russe DE MONTE CARLO begins its LA engagement on Feb 10. Here's the schedule: Feb 10 (Eve) Swan Lake, Licorne, Scheherazade; Feb 11 (Mat) Swan Lake, Nutcracker, Gaité Parisienne; Feb 11 (Eve), Les Sylphides, Don Quixote, Licorne, Gaité Parisienne; Feb 13 (Eve), Mikado, Black Swan, Harold in Italy, Scheherazade; Feb 15 (Eve), Pas de Quatre, Nutcracker, Gaité Parisienne; Feb 16 (Eve), Swan Lake, Licorne, Capriccio Espagnol; Feb 17 (Eve), Giselle, Pas de Trois, Le Beau Danube; Feb 18 (Mat) Les Sylphides, The Blue Bird, Mikado, Le Beau Danube; Feb 18 (Eve) Raymond, The Mute Wife, Pas de Deux, Scheherazade. Eves 8:30; \$1.50-\$4. Mats 2:15; \$1.50-\$3.50. Philharmonic Aud.

COMING UP Ballet Russe in Pasadena Civic Aud, program to be announced, Tues, Feb 14. John Barnett will conduct the LA Phil with Joseph Schuster as Cello soloist in Pasadena Feb 15. William Steinberg will be guest conductor of the LA Phil on Feb 9, 10.

**—Al Farley**

**night life**

ZARDI'S JAZZLAND, 6315 1/2 Hollywood Blvd, HO 5-3388; minim one drink per session. Stan Kenton's thundering herd is holding out in this Hollywood

nitery. Volume & discord are sacrificed for the swinging arrangements of Bill Holman. Listen especially for golden-toned altoist Lennie Niehaus & for Bill Perkins, a Caltech alumnus, who plays a raucous tenor. TIFFANY CLUB, 3260 W 8th, LA, DU2-5206; 2 drink minim. Shelly Manne, the world's greatest drummer, leads his own quintet, featuring an acclaimed new alto saxophonist, Charlie Mariano; Stu Williamson blowing valve trombone & trumpet, Russ Freeman on piano, Leroy Vinnegar, bass, & of course Manne playing drums.

THE HAIG, 638 S Kenmore, LA, DU7-9356; minim 2 drinks. The Bud Shank Quartet, who, along with guest Bob Cooper, provided the music for a recent Caltech assembly, is appearing at Al Haig's cozy night club. Caltechmen will recall the fine performances of Claude Williamson at the piano, Don Prell on bass & Chuck Frores, drums, all of whom support Bud's tuneful alto sax.

JAZZ CITY, 5510 Hollywood Blvd, HO4-8446; 2 drink minim. The much-renowned Modern Jazz Quartet, forsaking their niche on the East Coast, have come to Calif for a brief tour. Their quiet & tasteful sound, which still retains a strong jazz feeling, will win them many West Coast friends. Members of the Quartet are Milt Jackson, vibraharp & vibes; John Lewis, piano; Percy Heath, bass; Connie Kay, drums. Both Jackson & Heath have been quite successful in the Downbeat and Metronome polls.

THE STROLLERS, 57 Locust St, Long Beach; minim 2 drinks. Universally acclaimed one of the brightest new piano stars in a decade, Hampton Hawes together with Keith (Red) Mitchell

**LITTLE MAN ON CAMPUS**

by Dick Bibler



"HE'S IN PRIVATE CONFERENCE WITH MISS LUSH-CARE TO WAIT?"

on bass & Chuck Thompson, drums, provide the most modern of sounds while never losing track of the beat. Hawes is delightful to see & hear.

THE LIGHTHOUSE, 30 Pier Ave, Hermosa Beach; 2 drink minim. The Lighthouse was one of the original Southern Calif night clubs devoted to jazz, and over the years it has become more & more of a center for the young jazz enthusiast, mostly thru the unabated efforts of Howard Rumsey.

—Frank Kofsky

**dining out**

LAFAYETTE. 1239 E Green, Pasa. 6 to 9 except Mon. Price changes have made it very inexpensive to enjoy the most authentic French cooking in the LA area. Mention that you are from Caltech. SY2-9602. No bar.

DON THE BEACHCOMBER. 1727 N McCadden, Hollywood. 5 to 1 daily. Fabulous blend of Hawaiian, Tahitian & Cantonesc atmospheres. The Chinese diners are prepared with American tastes in mind, so they are quite palatable. Don't miss the rum drinks. HO9-3968. Bar.

TAIL O' THE COCK. 477 S La Cienega & 12950 Ventura Blvd. Most people say the one in the valley is far superior. Strictly American food nicely prepared. Service unbelievably good. CR-5-5173; ST7-1914.

PICCOLO, 2793 E Foothill, Pasa. 11 to 2 daily. American entrees & Italian a la carte. Steaks & chops from the charcoal broiler. Atmosphere due mostly to the lack of illumination. SY3-9492. Bar.

—John Lansingh

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# Slow first half costily as La Verne edges Caltech

Despite a tremendous second-half rush which netted them 42 points, the Caltech varsity basketballers managed to lose another game Tuesday, to the La Verne Leopards, 64-59, in the Scott Brown Gymnasium.

One of the main factors in the Beavers' defeat was an extremely cold second quarter. After holding the Leopards to a 12-12 tie in the first ten minutes of play, the Caltech game went completely to pot, and a combination of poor passing and weak defense resulted in 16 straight points for La Verne. The Leopards' fast break attack caught the Beaver defenses flat-footed, and forward Glenn Stanford led the offense in the first half, scoring 14 points on seven baskets from close in. The Beavers left the floor at halftime trailing 36-17.

The second half was an entirely different story, as the Beavers suddenly began to hit from the floor, steadily cutting away at

**SCC STANDINGS**

Only action in the conference last weekend was the Whittier-Caltech game. With the first round of conference play completed, the standings are as follows:

Team	Won	Lost	Pct.
Occidental	4	0	1.000
Redlands	3	1	.750
Whittier	2	2	.500
P-C	1	3	.250
Caltech	0	4	.000

La Verne's lead until time ran out on Caltech. Sonny Nelson was the leading scorer for the Beavers in the second half, notching 17 of his 24 points in the late rush. Rolland Moody, however, was the most spectacular figure in the rally, as he hit six long set shots late in the period to loosen up the Leopard defenses. Phil Conley and Jim Ball were the only other Techmen to score in the second half, hitting seven and four points,

respectively, in the half. Although the Beavers out-scored La Verne from the field, hitting 24 field goals to the Leopards' 23, they suffered from a lack of accuracy at the free throw line, hitting only 11 of 21 attempts, ten of which were made by Nelson. La Verne sank 18 of their 21 attempts, giving them a seven point margin which the Beavers couldn't make up from the floor. Nelson, Moody, and Conley were just about the entire Tech offense, scoring 53 of the Beavers' 59 points among them, with Nelson scoring 24, Conley 17, and Moody 12. Stanford led La Verne with 22 points, followed by Larry Deal and Ben Hines with 13 each.

**FROSH TENNIS**  
John Lamb, head tennis coach, has requested that all Frosh interested in competing on the Freshman tennis team report to the tennis courts after 3:30 today or Monday or Tuesday.

## Frosh Sports Roundup

**By Brent Banta**  
Another near miss for the Frosh basketball team last Saturday night; they lost to Whittier 49 to 39. Caltech remained in the lead throughout the major part of the first half. Whittier finally managed to tie it up 25 to 25 in the last few seconds.

Outstanding rebounding by Bill McClure was a large factor in the steady play which Tech showed all during the first period; maybe it's an indication that the team is finally going to catch fire. Tech came back on the floor for the final half looking like a team imbued with the old do-or-die, but it began to fade when Bob Ingram fouled out early, leaving few outstanding substitutes. Perhaps if Larry Kraus and Bob Lebovitz had been able to make the game, the offense could have turned that half-time tie into a Tech lead.

Fred Newman played steady ball throughout the contest, his hard driving helping to net him a big 18 points and high scoring honors. This Saturday, the Junior Beavers meet Redlands in

Scott Brown gym at 6:30; help 'em out by showing up and making a lot of noise! P.S. Coach Ed Priesler sorely needs a couple of extra managers; if you're interested in an honest job, see him after 4:00 in the gym.

The Frosh swimming team is really beginning to shape up under Coach Warren Emery's strict tutelage, stiff calisthenics and lots of work in the water being the prescription every afternoon. Some of the men whom Emery is counting on are Don Owings, breast stroke; Dick Mittleman, free style; Keith Brown, diving; and Bob Blandford, all strokes. Ted Bate, Doug Carmichael, and Ken Dinwiddie also look promising so far in practice. First meet for the Frosh comes up a month from now, on March 2, against UCLA. Best chance for seeing individuals in action will be at the Interhouse meet Feb. 18.

Track season is also close upon us, and right now, it looks like this might be the strongest of our Frosh teams. Vic Johnson is a good bet as a weight man; Bill McClure and Larry Kraus help to round out the field events in the high jumping department. Tony Leonard and Ron Forbes have been working out regularly at the middle distances; Frank Childs, Bob Ingram, and Bill McClure fill in on the hurdles.

Frank Cormia really spells hope for the Frosh tennis squad; in the interhouse match last week he won 42 games playing as first man for one of the houses. Jim Coe and Clint Frasier also will be high on the Frosh ladder if they continue at their present rate.

## Interhouse sports

**By Bob Walsh**  
Blacker squeaked out a victory in Interhouse tennis Saturday, scoring 29 points against Throop's 28 and Dabney's 27. Fleming and Ricketts tied for fourth with 18 each.

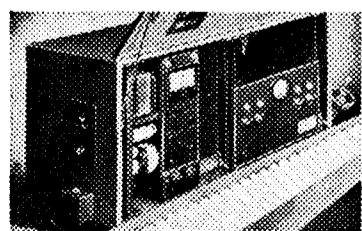
Ricketts' Frank Cormia won individual honors with 40 wins out of 48 games in the first singles division. Blacker's Al Goldberg took 44 games in third singles to register the greatest total of victories in the tournament. Throop won two first places as Scott Davidson won second singles and the team of Paul King and Bob Talbot took doubles in a close contest.

The final outcome of the tournament was in doubt until the very last games. Davidson was playing Mark Goldenberg in second singles while the final doubles games were being finished. Before playing their last game, they came over to the scoreboard to check the standings. Davidson then double-faulted four times in succession, and Goldenberg finished in a tie with Dabney's Truman Long. This extra point for Blacker at the expense of Dabney changed a potential three-way tie into a win for Blacker with Dabney getting third place.

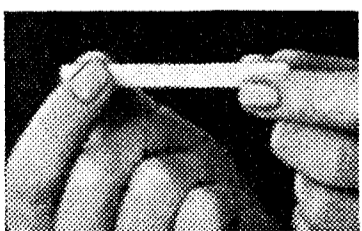


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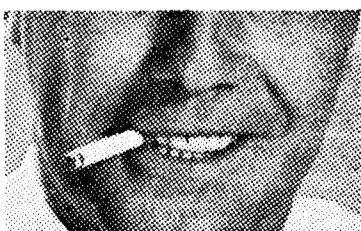
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# Hoopsters host Redlands in League game Saturday

Coach Carl Shy's varsity basketballers begin the second round of SCC conference play Saturday when the Beavers play host to the high-flying Redlands Bulldogs at 8:15 p.m. in the Scott Brown gymnasium.

The Bulldogs are currently lodged in second place in the conference, boasting a 3-1 record in league play. Their sole defeat has come at the hands of the powerful Occidental Tigers, 75-70. Outside the conference Redlands has played well over .500 ball, with one of their wins coming at the expense of the La Verne Leopards, 76-66.

## Whittier tops Tech, 58-42

Caltech's varsity hoopsters dropped their twelfth game of the season to the Whittier Poets Saturday at the Poets' gym, 58-42, despite a second half scoring burst by Sonny Nelson which almost brought the Beavers back in contention.

After hitting for only 14 points in the first half to Whittier's 32, Caltech came alive in the second stanza to outscore the Poets 28-26. Nelson and Phil Conley scored all the Beavers' points in the second half, with Nelson hitting for 18 points and Conley scoring 10. The pair wound up with 22 and 18 points, respectively, for the game. Stan Hubert led Whittier with 17 points.

The Poets threw a zone defense at Caltech in the first half which completely stymied the Beavers. Whittier took advantage of the slow-forming Tech defenses to pull ahead 9-2 on the strength of nine straight points by Hubert, mostly on fast breaks. The Beavers were unable to hit from outside, and the rapidly collapsing defense held Conley in check for most of the first half.

In the second half Nelson put on a one-man show of shooting that had the fans amazed. He and Conley pulled the Beavers to within twelve points of the Poets after trailing by more than 20 early in the second half. With eight minutes left to go in the game Whittier went into a stall, and the Poets pulled away to 18 points by the end of the game.

In the first meeting of the two schools this season, the Bulldogs took an easy 61-46 win over Tech, and Redlands rates as an odds-on favorite to win the rematch. Al Endeman, second team all-conference choice last season at forward, is the scoring leader for the Bulldogs. Dan Stevenson at center is Redlands' key rebounder.

Tech's hopes lie mainly in the scoring ability of Sonny Nelson and Phil Conley, the Beavers' one-two scoring punch. Nelson, who missed the first Redlands game because of a knee injury, is slowly rounding into shape, and may be able to go at top speed all the way Saturday.

Coach Shy will probably field the same team which has started the past few games, with Nelson and Glenn Converse at forwards, Conley at center, and Jim Welsh and Jim Workman at guards.

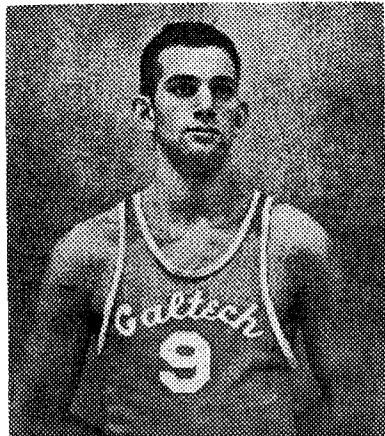
## Rowdies, Darbs tie

Ricketts House retained the Discobolus Trophy with a 2-2 tie with Dabney in softball Monday afternoon.

The tie enabled Ricketts to keep the trophy, pending the next challenge. Throop Club is next in line for a challenge, not having engaged in Discobolus competition yet this year.

Blacker, Fleming, and Ricketts are now in a three-way tie for the leadership in trophy points with six each. Three points were awarded for each win, two for ties, and one each for losses. The house with the most trophy points keeps the trophy during summer vacation and freshman rotation.

### Meet the Varsity



Howie Bloomberg

One of the "cage mainstays" on the Beaver basketball team is Howie Bloomberg, Junior forward. Bloomberg, who sometimes goes under the alias of Alfie H. Zornberg (Zornberg!?) is in his second varsity year.

Alf—er, Howie, who came to Tech from Portland, Oregon, is in the mechanical engineering option, and anyone can see how he uses his analytical brain on the basketball court merely by observing the care that goes into every shot he takes. In fact, Howie himself, when asked about this, has often indicated that "he really cares."

Bloomberg is now serving as president of the Junior class.

# The Sports Corner

by Dick Van Kirk

Just in case those of you who read the story on the Whittier game failed to notice, the trio of Sonny Nelson, Phil Conley, and Jim Workman scored all of Caltech's points, and Workman's contribution was a mere two points. This certainly doesn't speak well for the team's shooting ability, and a look at the scores the Beavers have run up this season seems to verify the fact. Coach Shy's boys have averaged only 41.4 points per game, and in these days of race-horse basketball it takes a lot more points than that to win a game. The return of Nelson to the lineup has taken some of the strain off Phil Conley, but some of the other players are going to have to start hitting if better results are expected.

\* \* \* \*

Despite the fact that they have been plagued by the recent rains, Coach Bert LaBrucherie's tracksters have been trying to get in shape for their first meet of the season Feb. 25 at Occidental. The Tigers haven't lost a dual meet in the conference for as long as practically anybody can remember, and they aren't planning to drop this one, but the Beaver thinclads are hoping to give them a good run for their money.

\* \* \* \*

On the national sports scene, those spectacular San Francisco Dons stretched their win streak to 40 games, but in the process they were involved in one of the strangest games seen in years. In the record breaking game against California a second string center on the Bears' squad decided to take his coach seriously when he said to hold on to the ball. As I understand it, all he accomplished was to send all six feet ten inches of Bill Russell into spasms of laughter, and to keep the point margin respectable. But even the Caltech team has scored more than 24 points (on occasion).

\* \* \* \*

Good deed of the week Dept. . . Head baseball coach Ed Preisler has asked this dept to convey a message to the student body of his urgent need for a manager or two for his baseball team. Anyone interested should see him before the rush starts.

## A frank message to graduating electronic and mechanical ENGINEERS

You know it . . . we know it . . . so let's be frank about it.

The demand for engineers—experienced or graduate—far exceeds the supply. And, from now on in, you are going to be sought after more than a triple threat halfback for next year's varsity.

You will be promised many things (including the moon with a fence around it), and for a young man just getting started these things are pretty hard to resist.

So, again, let's be frank. We at Farnsworth won't promise you the moon. (Although we are working on some ideas that may eventually get you there and back.) We are an old, young organization. Old, in the sense of being pioneers in the field of electronics. (Our technical director, Dr. Philo Farnsworth invented electronic television.) Young, by being the newest division of the world-wide International Telephone and Telegraph Corporation, devoting our efforts exclusively to research, development and production of military and industrial electronics, and atomic energy.

All of which makes Farnsworth big enough for stability and technical perspective, yet small enough for mobility, flexibility and recognition of the individual. Here you will be associated with and encouraged by a team of eminent scientists and engineers with many "firsts" to their credit in the field of electronics. Here you will be heard . . . not just one of the herd.

We earnestly invite you to hear the whole fascinating Farnsworth story. We're pretty certain it will make the decision for your future easier.

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FEBRUARY 3

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# Campus Brewins

**"I'd do anything to be able to listen to some hot jazz records!"**  
—Girl Dancing with S.A.M. at Fleming Sexchange.

If you were dancing with a nurse at an exchange, and she whispered these words in your pink ears, would you do what Stephen Adolphus Puerco Ojos did? Well, ole Mager was kinda shook up over his near success last week, so he was determined not to fail again. To his best and most trusted friend, Phil Conley, went our hero. "Please kin I borry your red hot jazz records, Phil? Please, huh? Aw comon, old buddy. Think of all the Pizzas we got together." Yet Phil knew what was best, and Steve has still retained that which he cannot recover once he has lost it—his laundry business.

**Win a few, lose a few**

Note: It was humored by unreliable sources that one of the team members who didn't score any points at Whittier decided to stay over night there at the house of a feminine friend he knew to try to get some negative points on his score.

**Better Boys Bring Babes**

Returning to the exchange Friday night, there were some unwelcomers who weren't especially invited. There were, in fact, two boys and one girl who wanted to dance together—two at a time. The Flem boy was our own Sheldon Burke, but he lost out to a Throoper named Malone who whisked away the girl—Her initials were B.B.

**When they call you father**

At the formal one anonymous youth became carried away with the atmosphere, the time, and the girl. He began calculating the difference between their ages on the tablecloth. "Why there's just 4 and 1/3 years difference! That's perfect, just exactly the same as my

mother and father." If this ain't war, what is?

**This is life?**

Some people really live in it—at least Frank Childs does. 'Twas Sunday afternoon when in came two damsels whom Frank had never seen before. It seems that the two had heard by some quite indirect means that he was a real neat guy and were checking the authenticity of the statement. A short time later Frank was seen to leave the house with one under each arm. You say you are spending spring vacation with them, Frank? He's a frosh now, but what the devil will he be like four years from now?

**Econ—practical application**

There are always those few who try to get something for nothing. Wayne Nelson & Wolffy were over in Hollywood taking in a show when whom do they meet just outside the show but a couple of Scrippses. Did they pay the girls' way in? Well, no! They picked them up in the show and ended taking them home. No comment.

**New Fod—what next?**

First it was Bonwell, now it's 'Gordee' Barrienbrock. It seems Gordee was wondering around the house (mentally wandering) dressed in his usual underpants (nothing else) when he comes face to face with two

members of the opposite sex. Females, that is. After the initial expected exchange of witty conversation (What the H are you looking at?) he beat a hasty retreat. Jim Crabbs also took to the new fad although, instead of wandering around the houses, he preferred to stay in the Laundry room. Couldn't find your pants, huh Jim?

**My seester, she is a —**

The Blacker Tijuana field trip has just returned triumphant, refreshed, and ready to face the drabness of midterm week. The Beak in an exclusive interview with the leader and chaperone of the expedition, Sir Daniel Horowitz, came away with the following statement, "She was twenty four, and her name was Olga." The other explorers gave

equally enthusiastic reports. See what you missed, Pope Kelley?

In a splendid and spectacular coronation Pope Kelley blessed those who were going to make the pilgrimage to Tijuana, but said he could not attend because of financial difficulties.

**EGAD!!**

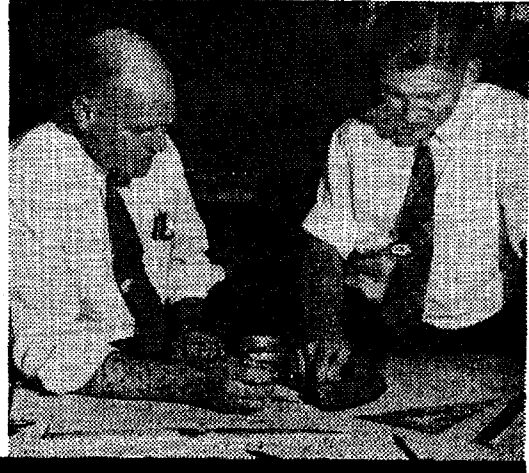
Maw: Paw, isn't it a shame about our daughters layin' up thar in the cemetery?

Paw: Sure is, Maw. Sometimes I wish they was daid.

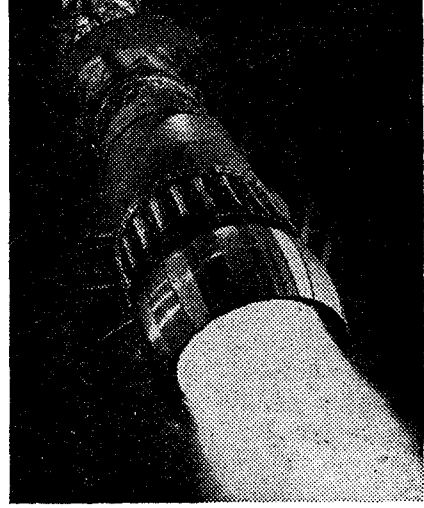
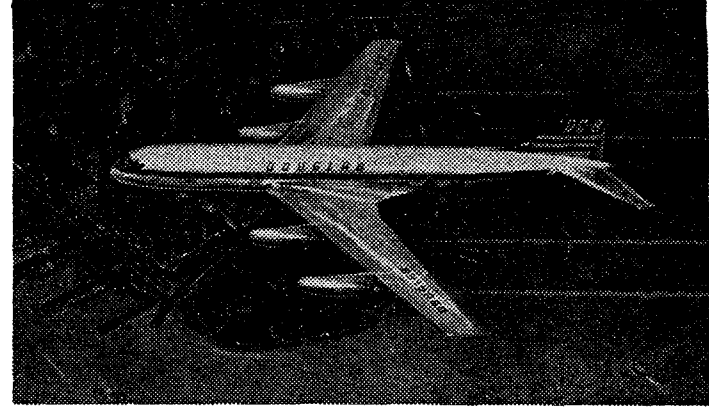
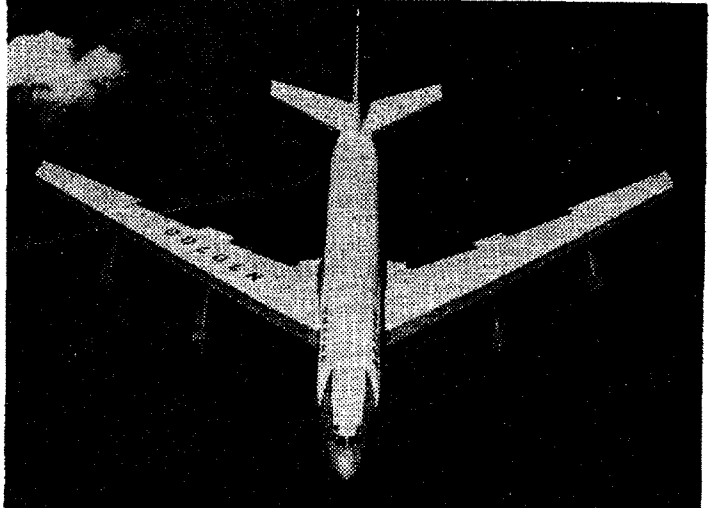
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The J-57 turbojet, first engine in aviation history to achieve an official power rating in the 10,000-pound thrust class. Its pace-setting performance in military aircraft blazed the way for American jet transport leadership.