

## Second Alumni Talk Tuesday

The discussion series directed by Drs. Clark and Sharp in conjunction with the Alumni association, began conspicuously this year with the discussion, "Job Seeking and Methods of Securing Information," last Tuesday in Dabney House. This year the series is scheduled so it will aid not only seniors in seeking placement but also freshmen in their choice of option.

Each discussion will begin with a 20-minute talk. The major part, however, will be participation by the students, to help them better understand what is expected of them upon graduation.

### Well Qualified

Drs. Clark and Sharp have arranged for a well-qualified speaker to continue the series. Mr. Charles B. Thornton, vice-president of the Hughes Aircraft Company, will discuss "The Place of Engineers and Scientists in Industry," on Tuesday, October 18, at 7:15 in Blacker House. Mr. Thornton has a varied background which enables him to give a well-rounded picture.

### Ford Director

He has an excellent service record. At one time he was the youngest Colonel, and at the cessation of hostilities he was in line for promotion to Brigadier General. He was formerly Director of Planning at the Ford Motor Company, at Dearborn, Michigan, and in 1946 and 1947 he acted as consultant to the Secretary of the Air and the Undersecretary of State.

Mr. Thornton's address will include such topics as: where scientists and engineers fit into management and industry, what part they play there, and the opportunities they will have.

## Contest For Scholarships Announced

Caltech engineers attention: a contest for awards ranging from \$1000 to \$25 will be given for the best papers, written by engineering undergraduates from all over the country, on arc welding problems.

The awards are given by the James F. Lincoln Arc Welding Foundation of Cleveland, Ohio, in the third annual competition of its Engineering Undergraduate and Scholarship Program.

The program offers annually \$6750 in awards and scholarship funds to engineering undergraduate students and to schools for the best papers prepared by undergraduates on arc welded design, research, fabrication or maintenance.

### All Compete

Regardless of previous knowledge of arc welding, all resident engineering undergraduate students, including agricultural and architectural, registered in a school or college in the United States are able to compete in the writing of papers for awards.

A copy of the Rules and Conditions may be obtained by writing The James F. Lincoln Arc Welding Foundation, Cleveland 1, Ohio.

## Campus Calendar

**THURSDAY, OCTOBER 13**  
12:00 Throop Club Meeting  
7:30 ASCIT Board of Directors Meeting in Lower Fleming  
7:45 Dancing Class in Culbertson

**FRIDAY, OCTOBER 14**  
11:00 DuBridge Welcome Address in Culbertson  
8:30 Blacker House-Oxy Exchange

**SATURDAY, OCTOBER 15**  
12:00 Soccer at Tournament Park, Caltech vs. UCLA  
Blacker House Mountain Party

**SUNDAY, OCTOBER 16**  
Film Classics in Culbertson

**TUESDAY, OCTOBER 18**  
7:30 Band Rehearsal in Culbertson  
7:15 Alumni Placement Lecture in Blacker House

**WEDNESDAY, OCTOBER 19**  
7:30 Orchestra Rehearsal in Culbertson  
9:00 Glee Club in Culbertson

## Student Shop To Reorganize

The student shop was closed this summer by order of the Faculty Committee in charge of the shop. It was more than closed; it was nailed shut until such time that the Committee feels the students have a workable plan for administering the shop's affairs.

### Misused

Since the shop opened two years ago, many tools have been "borrowed," the floor has seldom been swept, and many strange and unauthorized objects such as car engines have been left to clutter the place for months. A few staunch souls who honestly used and appreciated the shop kept it going and cleaned it up when the floor got too thick, but they were no match for the forces of disorder and indifference.

### Meeting Set

A meeting has been called for Friday, Oct. 14, at 11:00 a.m. in 206 Dabney. This meeting will be for all present members of the student shop who have paid their dues and no one else. People desiring membership in the shop will have to wait till a later meeting.

At this meeting the Executive Committee will suggest several plans for a complete reorganization of the shop rules. A shop member who does not come to this meeting or send a note will henceforth hold his peace concerning any action taken by the members. This is the time to air your views on the future administration of the shop.

## Dabney Men Enjoy Dance, Beach Frolic

Date life in the Southwest got a shot in the arm last Friday with a triple exchange with Orr, Erdman and Haines Halls of Occidental. Although the walls were sorely tested, the capacity crowd went through the formalities of dancing.

### Novel Entertainment

For entertainment the wandering bard, Brundin, backed up by McQuiston, rendered a few plaintive melodies. McCaldin furnished the piano prelude to a lecture on volcanoes by Professor Kurlaff. Kurland and Laff apparently have become the successors of the Markoff-Ottestad midget combo.

Saturday night there was an open house record dance with Whittier undergrads attending in numbers.

The weather conveniently became warm on Sunday, thereby giving a good excuse for the Dabneyites to migrate to Emerald Bay for their first beach party of the year.

## Rowdies Schedule Dinner Exchange

The Ricketts social program gets well under way this weekend with dances scheduled for Friday and Saturday nights.

Friday the Rowdies travel to Browning Hall at Scripps for a dinner exchange, with half of the girls coming in to dinner at Ricketts. Dancing and refreshments will follow at Browning. This exchange offers the Freshmen a particularly good opportunity to meet new girls and widen their circle of friends.

To fill out the weekend the social committee has planned a dance with local girls for Saturday night. A careful selection of beauteous girls around Pasadena promises an evening of fine entertainment. All men without cars and members of the Washington Monument Club should not fail to take advantage of this great opportunity!

## SENIORS

All Senior candidates should come to the Registrar's office, 119 Throop, to sign their Bachelor's candidacy blanks.

## BEAUTY CONTEST WINNER



Judged most beautiful girl in a beauty contest at the Frosh Tea Dance, Joanne Peterson, fourth from left, is being handed first prize, a stuffed "Caltech" dachshund, by Frank Ludwig, M. C. at the dance.

## Tau Bates Make Plans To Improve Study Help Service

Plans for assistance to Frosh and others who may be having troubles with their studies, and for a survey of Los Angeles Industry were discussed at the organizational meeting of the Caltech chapter of Tau Beta Pi, last October 5.

These two activities will constitute the main work of Tau Beta Pi for the coming year, according to Carl Fox, Tau Beta Pi press agent.

### Help!

The assistance program for those who are falling by the wayside in studies works as follows: In the 'Y' office in Dabney there is a file of cards giving the names, addresses, and options of men available to tutor all who need it.

The hours available and the subjects in which these men are proficient are listed. It is hoped that all who feel even a little need will avail themselves of this service.

## Y Luncheon Club Opens

The Y Upperclass Luncheon Club initiates its fall program at noon today and will have for its opening speaker Caltech's new track and football coach, Bert LaBrucherie.

### Speakers

Chairman Dick Libbey, '51, and his committee have secured an impressive list of Institute personnel as speakers, including President Lee DuBridge, Assistant Professor of Economics Melvin Brockie, and the new Physics Department head, Professor Robert Bacher.

### See Libbey

All upperclassmen who would like to attend these Thursday noon luncheons at the training table should get in touch with Dick Libbey or Wes Hershey in the Y office.

# Dr. DuBridge To Address ASCIT On Institute Activities

## President Opens Series Of Fall Assemblies With Student Report

An address by Dr. Lee A. DuBridge, president of the Institute, will be the main feature of this term's first assembly, on Friday at 11:00 a.m. in Culbertson Hall. Dr. DuBridge's talk is expected to take the form of a report to the students on various phases of the Institute, its administration and its problems.

Caltech's president will discuss a variety of subjects of great interest to the student body, among them the educational philosophy of the Institute, which is basically the following:

- 1) A limited enrollment of selected students;
- 2) A restricted number of fields of instruction;
- 3) An emphasis on fundamentals and creative work;
- 4) A broad education.

### School Finances

Also planned for discussion is the matter of the finances of the school. This question is, of course, at present of special interest to the students. In recent talks, Dr. DuBridge has praised the idea of Federal scholarships for the removal of economic barrier in the way of qualified students, nevertheless pointing out that Federal aid to universities would not help private institutions, since their freedom is too precious to be sold for financial aid.

### Normal Year

This year has been termed the first "normal" year since before the war from the standpoint of Caltech's enrollment. Therefore the President's views on the character of the student body are of special interest.

A glimpse into the future of Tech will probably be afforded when Dr. DuBridge takes up the subject of the past, present, and future of the campus laboratories.

Everyone is urged to be present at this exceptional assembly.

## JOIN THE INSTITUTERS

Here's your chance to get on the ball when the Instituturers start it rolling on their membership drive tonight. Your service organization will be looking for new members to carry on its activities this year.

Membership in this traditional service organization is purely voluntary. You will be helping yourself while aiding the student body by contributing to the success of the various functions on campus.

Remember to sign up with your House Chairman when he contacts you. Watch for Dick Knipe in Ricketts, Joe Cain in Dabney, Pete Howell in Blacker, or John Morrison in Fleming.

Let's get things done! Join the Instituturers!

## Blackerites Trek To Mountain Camp

Two feature social functions, an Exchange Dance and a Mountain Party, will make this a memorable weekend for the Blackerites.

Oxy girls will be guests this Friday night at Blacker's first fall term exchange. This dance promises to be another of the traditionally successful Oxy-Blacker exchanges.

### Mountain Party

Saturday, in response to popular demand, Blacker will hold its second annual Mountain Party. This affair will again take place at Camp Ivy.

During the afternoon, as last year, there will be such sports as volleyball, horse shoes, and ping-pong for those who survive the two-mile hike to the site of the party.

### Moonlight Hike

An added attraction not available last year will be the swimming pool. Activities after dinner will highlight dancing in the camp lodge and singing around the camp fire. The moonlight hike back down the mountain will give the finishing touch to a perfect evening.

## McKee Address ASCE Feature

Dr. Jack E. McKee of the CIT Civil Engineering Department spoke to the second ASCE meeting of the year Monday on "The Consulting Engineer."

A newcomer to the Caltech faculty, Dr. McKee has spent a number of years as a consulting engineer in private business. His talk pointed out the advantages as well as the disadvantages of being a consulting engineer. He also added the qualifications necessary to become a consulting engineer, emphasizing honesty and integrity as personal traits.

The student chapter elected to hold a theatre party later in the term, and a field trip to the Los Angeles County Tunnel project. The office of recording-secretary will be filled at the next regularly scheduled meeting.

## Radio Forum Goes On KXLA

Last year's Caltech Y Radio Roundtable has been revived and the first program broadcast last night over KXLA. This is the first of a new series of fifteen-minute programs at 8:15 Wednesday nights. The subject presented was "Should the U. S. Adopt a Marshall Plan for the Orient?" It was presented by Ralph Stone, Ulrich Merten, and Oily Gardner.

The Radio Roundtable is strictly a student endeavor with the technical assistance of Prof. Henry McCreery. Topics include current events in world affairs and science. It provides the student with an opportunity to air his personal views on these subjects to a radio audience.

Anyone interested in participating in this series should contact John Lewis or John Bjerklie, both of Fleming, or Prof. McCreery, whose office is located in Dabney Hall.

## ASCIT-Scripps Exchange Friday

Next week all Caltech undergrads will have the opportunity to invade Scripps. The CIT-Scripps exchange will be held Friday, October 21, and promises to be one of the outstanding ASCIT social functions this term.

Dancing will begin at 8:30 and end at 12:00. Complete details of this affair will be published in next week's California Tech and will be given to the social chairmen in the four Houses and Throop Club.

Be sure to keep next Friday open so that you won't miss the fun.

## Secretary's Report

### INTERCOLLEGIATE COUNSEL MEETING

Although for the past few years meetings made up of the Presidents, Vice-presidents, Athletic Managers, and Social Chairmen of the conference schools, Whittier, Pomona, Redlands, Occidental, and Caltech, have been held at regular intervals throughout the school years relatively few here at Caltech have realized it, or known just what transpired. Actually, these meetings have been very beneficial to all schools in administering much of the conference business and establishing a far better relationship and co-operative spirit among the member colleges. Many problems have been settled at such meetings which few people realize came from such an organization.

Last Thursday night Caltech played the host to the member schools with Ralph Lovberg presiding over the first such meeting of the school year.

A good part of the meeting was taken up in renewing acquaintances but along with it some business was taken up which should be related here.

Caltech announced its policy of holding open house after each home game, an idea which seemed to be taken up by each school. We hope that we are starting a precedent.

Whittier brought up the idea of each losing school donating a pennant to its victor at all football games, the object being to establish a large collection of such to be flaunted about at football games. Needless to say Caltech found the idea rather dull considering the expense that such a program would incur on us.

But talk of spoils did bring up the point that a trophy should be established for the conference winner in football. It would go each year to the victor whose name would be thereon inscribed. To finance such a trophy it was decided that the L. A. Times should be approached and if that failed, the local merchants should be solicited. A committee was chosen to meet next week after various contacts could be made and further action could be expedited. After that meeting will be more definite information about the whole situation.

Also it was briefly mentioned that a variety show should take place at the conference dance (held at Santa Anita last year). But this was shelved for further discussion at the meeting next month.

In the future, further business of interest conducted at these meetings will be printed in this column.

### MONDAY, 11:00 MEETINGS

At the student-faculty relations meeting on Monday the following motion was made and passed which concerns all wishing to schedule meetings at this time!

"All students are required to register their meeting and to check with the Dean's secretary concerning meetings to be held at 11:00 on Mondays. This must be done before a room permit will be given. No veto on a meeting will be made, but the organization scheduling such a meeting should be aware of possible conflicts."

Olly Gardner

## Potpourri

By Bob Crichton

Professor Michael, of the C.E. Department, has been in the news quite a bit lately. He gave a talk on scientific trout fishing at a student assembly last April 22nd. A reporter from the L.A. Times was in the audience and on Sunday, May 1st, almost a full page of the L.A. Times was devoted to Professor Michael and his scientific methods of trout fishing.

### Band Wagon

It wasn't long before the New York Times got hold of the story, and, after they printed it, the Metropolitan Group, an eastern syndicate outfit, sent a photographer and a writer out to spend a whole day fishing with Professor Michael in San Gabriel Canyon. Again the Prof. appeared in print in the Sunday magazine section of 13 of the eastern newspapers. Then American Magazine sent a photographer out to do an article on our great fisherman. He appeared in the "Interesting People" section of the September issue of that magazine.

Then, you guessed it, Life sent a photographer and a writer. They caught Prof. Michael just about to depart for Idaho and made him unpack all his duffel so that they could spread it out and take pictures.

### Fish Viewpoint

They followed him up to Idaho and took pictures of him for three days while he fished. The one thing they wanted most was to get a picture of Prof. Michael as he looked to a fish. They got one, and it is an amazing picture. There is a fifty-fifty chance that Life may use the story come next trout season, so I won't describe it here.

Last winter, Professor Michael got the idea for a book on trout fishing, and it is now in the final stages. If all goes well, it is expected that the book may come out next spring.

### Scientific Fishing

Professor Michael has been a dry fly fisherman for forty-five years, and he feels that to be a good fisherman, one should have a knowledge of Chemistry, because trout like water that has a high oxygen content; Mechanics, because in casting, it is necessary to hook trout, not trees; Hydraulics, because trout ignore flies with a cross current drag; Optics, since it is important that the fish see the fly and not the fisherman; Entomology, because flies imitate insect life; Meteorology, because if the water temperature is over 70, or if the barometer is falling rapidly, it is not even worthwhile to go out.

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## CAMPUS BREWINS

Reaching for our ever-present carborundum stone, we will sharpen up the Great Beak and prod into the little corners to see what's been happening in your life. In response to our request last week, we received 781 angry letters demanding that we discontinue our present policy of hands off regarding that unnameable country club to the East, two empty beer cans, and one discussion of the state of the Union. We would be delighted to bow to public opinion, but our back is stiff from lying flat on it, and what's more, the editor says NO. We will continue our poll in hopes that someone will suggest a way out. Please accompany all entries with a FULL can of beer.

Over Fleming way the Big Red all-frosh exchange differentiated the men from the others, Bob Lynam and Al Haire were seen in those little corners we were talking about earlier. We said "all-frosh" but "Little Egypt" Matzner, who arranged the affair, was also there, busily engaged in giving the less able a lesson in vertical necking. Can't neglect their education, eh, Ed? Early Saturday morning this same Matzner borrowed a book from Bruce Stowe on the applied practical facts of life, and didn't show again until late Sunday night. Another story came to light after the Whittier game. Keswick and Waheed, doubling, were on the way back from the fracas. Waheed, in the back seat, was doing what one does in the back seat. Hank's date turned around, wide-eyed, and said (quote),"I don't believe in such things ANY MORE." Could this be the modern trend? The Beak, always guarding against the advent of the purely Platonic friendship, bids you beware!

Steve Pardee dropped Betty Lou this summer and has taken up with a Schlitz magnate named Mary Jo.—Her father distributes the stuff. The young lady is fanatically interested in Barber Shop quartet music, so Pardee has been doing some research on the subject, even learned a few himself, to the great delight of his house brothers, who have enjoyed his beautiful vocal characteristics for the last two years.

News from Blacker centered around the election of a new pope. Jim Hendrickson fell into the much-coveted office and his first papal act was to excommunicate the entire house as they were disrobing him, preparatory to the customary dip in the Physics pond. At the same house meeting which gave Jim his sceptre, there was tremendous agitation for the addition of "Astounding Fiction" to the Blacker

magazine subscription list. A few reactionary "New Yorker" readers formed a bloc and the measure failed to pass. It is discouraging to note the passing popularity of this higher type of reading.

Carel Otte, Blacker boss, went out on a date last Monday night. Word of this got around, and even before Crud Alley could draw its stirrup pumps, Blacker court was knee deep in water, and frosh of all denominations. The Great Beak got his feathers wet while hurrying through a similar joust during the noon hour, and is now malevolently waiting for the Los Angeles water commissioner to step in and penalize both sides, or all four, as the case may be.

From the looks of things in the Southwest corner Friday night, the majority of the population of the undergraduate teapop participated in the Darb's Oxy Exchange. Standing out like a maltreated digit were several Blacker frosh, religiously wearing their bright red neckpieces. The R.A.'s were all there, and doing quite well as they happily circulated among the available.

Corbato, the boy who knows three ways to mix a Manhattan, seven ways to mix a Collins, 11 ways to mix a boiler-maker, but only ONE way to mix Martinis, tried his experienced hand at mixing the couples, and left those without sliderule minds staring numbly at the numbers on their nametags. Bob Laff's vocal dysentery was finally put to use, and he gave a monologue on volcanoes, while Kurland, who was standing behind him and posing as his arms, ineptly fed him oranges, bananas, etc., and generally tried to inhibit the torrent of words. It looked sort of childish to us, but then we're so sophisticated. The Oxy gals ate it up.

By negotiating a deal with the Devil for the only souls left in Dabney—namely, those of the frosh—the Darb's beach party was blessed with all sorts of fine weather. The troops ably (except, perhaps, for Deverill) polished off a keg in the opening minutes of play. Though the water was somewhat BTU-deficient, people went swimming again and again. Bob Burrell showed a great deal of courage for a freshman on the eve of initiation week, and stood up Dabney Prexy Royce's sister. He'll possibly learn. Corbato was found equal to the crisis, and cleverly contrived to get himself stood up also, and so took over the disappointed maid. Seems that Corby's date went down to San Diego for the Pomona game, and dropped out of sight there.

(Continued on page 6)

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## The Front Burner

Two very fine screen productions of Shakespeare are currently being shown nearby. "Henry V" is at the Arlington Art Theatre, and "Hamlet" is featured at the 4 Star Theatre. Laurence Olivier takes the lead in both, and turns out a performance so noteworthy, that anything said about it here would be a poor reflection of a great work.

**Screening Difficult**  
Shakespeare's plays were written, of course, for a different medium of presentation, and there are certain limitations imposed on the screen. Certain liberties are taken in the staging which are essential to movie technique. They are very effective, but present a different picture than the stage production.

**Hamlet**  
In Hamlet, for instance, there are very elaborate stage settings depicting Elsinore as accurately as facts permit. Since the Elizabethan stage lacked the facilities for this, the actors' lines had to add much description, which became unnecessary for the movie. The photography, which was black and white to achieve an effect of drabness and coldness, played up emotions and more subtle actions in a way to make more of the lines less effective.

The net result, however, provided feeling and impact which made not only Hamlet, but the whole story of Hamlet a reality to the moviegoer. Olivier's interpretation of Hamlet was, at least momentarily, brought to the audience by sheer impact. Essential parts of the play were forceful, and couldn't be missed. Those who have read or seen the stage "Hamlet" and "Henry V" will find these productions very well done, and interesting and entertaining as movies.

## The Evening Concert

KFAC 8-10 p.m.  
Presented by the Southern California and Southern Counties Gas Companies

**THURSDAY, OCTOBER 13**  
The Gypsy Baron—Overture, by Johann Strauss, Vienna Philharmonic Orchestra conducted by Herbert von Karajan (8).  
Symphony No. 33 in B Flat Major (K. 319), by Mozart, Vienna Philharmonic Orchestra conducted by Herbert von Karajan (20).  
A German Requiem, by Brahms, Elizabeth Schwarzkopf, Soprano, Hans Hotter, Baritone, The Vienna Friends of Music Choral Society and Vienna Philharmonic Orchestra conducted by Herbert von Karajan (80).

**FRIDAY, OCTOBER 14**  
Weekly Feature Concert—A Night at the Ballet  
Les Patineurs (The Skaters), by Meyerbeer, Sadler's Wells Orchestra conducted by Constant Lambert (8).  
Coppelia, by Delibes, Royal Opera House Orchestra of Covent Garden conducted by Constant Lambert (34).  
Les Sylphides, by Chopin—White and Murray, London Philharmonic Orchestra conducted by Sir Malcolm Sargent (25).  
Fantastic Toyshop, by Rossini—Respighi, London Philharmonic Orchestra conducted by Eugene Goossens (25).  
Ballet Egyptian, by Luigini, B.B.C. Theatre Orchestra conducted by Stanford Robinson (13).  
Aida—Ballet Music, by Verdi, Boston "Pops" Orchestra conducted by Arthur Fiedler (8).

**SATURDAY, OCTOBER 15**  
L'Amico Fritz, by Mascagni, Soloists, Chorus and Orchestra of Turin Opera conducted by Pietro Mascagni.

**MONDAY, OCTOBER 17**  
Zampa—Overture, by Herold, Boston "Pops" Orchestra conducted by Arthur Fiedler (8).  
Symphony No. 5 in D Major (Reformation), by Mendelssohn, London Philharmonic Orchestra conducted by Sir Thomas Beecham (28).  
Arthur Schnabel, Pianist.  
Concerto No. 5 in E Flat Major (Emperor), by Beethoven, Chicago Symphony Orchestra conducted by Frederick Stock (35).  
Variations on a Theme of Haydn, by Brahms, Philharmonic-Symphony Orchestra of New York conducted by Arturo Toscanini (17).  
Nuages—Th eEngulfed Cathedral—Dances Sacred and Profane, by Debussy, Philadelphia Orchestra conducted by Leopold Stokowski (26).

**TUESDAY, OCTOBER 18**  
Uninhabited Island Overture, by Haydn, Indianapolis Symphony Orchestra conducted by Fabien Sevitzky (8).  
Symphony No. 4 in E Minor, by Brahms, Lucerne Festival Orchestra conducted by Paul Kletzki (40).  
Erica Morini, Violinist.  
Concerto in D Major for Violin and Orchestra, by Tchaikovsky, Chicago Symphony Orchestra conducted by Désiré Defaux (30).  
Prelude and Fugue in E Flat Major (St. Anne), by Bach, Chicago Symphony Orchestra conducted by Frederick Stock (16).  
Variation and Fugue on a Theme by Purcell, by Britten, Liverpool Philharmonic Orchestra conducted by Sir Malcolm Sargent (17).

**WEDNESDAY, OCTOBER 19**  
Colas Breugnon—Overture, by Kabalevsky.

## Musical Masterpieces

KFAC 4-5 p.m. daily  
2-5 p.m. Sunday  
Presented by the Slavick Jewelry Company

**THURSDAY, OCTOBER 13**  
Overture on Greek Themes—Glazounov, Dimitri Mitropoulos and Minneapolis Symphony Orchestra  
Concerto in A Minor—Dvorak, Yehudi Menuhin, violinist, Georges Enesco and Paris Conservatory Orchestra  
Dances Villageoises—Gretry, F. Ruhlmann and Symphony Orchestra  
**FRIDAY, OCTOBER 14**  
Rossiniana "Suite"—Rossini-Respighi, Sir Thomas Beecham and London Philharmonic Orchestra  
Mother Goose Suite—Ravel, Serge Koussevitzky and Boston Symphony Orchestra  
The Santa Fe Trail—McDonald, Eugene Drmandy and The Philadelphia Orchestra  
**SATURDAY, OCTOBER 15**  
Morning, Noon and Night in Vienna "Overture"—Suppe, Victor Olof and National Symphony Orchestra  
Haugtussa "A Song Cycle"—Grieg, Kirsten Flagstad, Soprano  
Petite Suite—Roussel, Charles Munch and Paris Conservatory Orchestra  
**SUNDAY, OCTOBER 16**  
La Scala di Seta "Overture"—Rosini, Arturo Toscanini and Philharmonic Symphony Orchestra of New York  
Rustic Wedding Symphony—Goldmark, Robert Heger and Vienna Philharmonic Orchestra  
Cephale et Procris—Gretry, Frederick Stock and Chicago Symphony Orchestra

**MONDAY, OCTOBER 17**  
Cosi fan Tutte "Overture"—Mozart, Bruno Walter and Vienna Philharmonic Orchestra  
Symphony No. 6 in F Major "Pastorale"—Beethoven, Victor de Sabata and Symphony Orchestra of the Augusteo, Rome  
Roussalka "Ballet Music"—Dargomizky, Antal Dorati and London Philharmonic Orchestra  
**TUESDAY, OCTOBER 18**  
Ruy Blas "Overture"—Mendelssohn, Pierre Monteux and San Francisco Symphony Orchestra  
Concerto No. 2 in G Major—Tchaikovsky, Renzo Moiseich, Pianist, George Weidner and The Philharmonia Orchestra  
Damnation of Faust "Orchestral Excerpts"—Berlioz, Sir Thomas Beecham and London Philharmonic Orchestra  
**WEDNESDAY, OCTOBER 19**  
Le Maschere "Overture"—Mascagni, Ugo Tansini and Symphony Orchestra of Turin  
Romeo and Juliet "Dramatic Symphony"—Berlioz, Arturo Toscanini and N.B.C. Symphony Orchestra  
Suite No. 2 for Two Pianos—Debussy, Vitya Vronsky and Victor Babin, duo-Pianists  
\*By Request

NBC Symphony Orchestra conducted by Arturo Toscanini (5).  
Symphony No. 3 in B Minor (Illa Mourometz), by Gliere, Philadelphia Orchestra conducted by Leopold Stokowski (46).  
Three Famous Scenes from Wagner, Kirsten Flagstad, Soprano, Lauritz Melchior, Tenor, San Francisco OperaOrchestra conducted by Edwin MacArthur (40).  
Boris Godunov—Symphonic Synthesis, by Moussorgsky-Stokowski, Philadelphia Orchestra conducted by Leopold Stowski (22).

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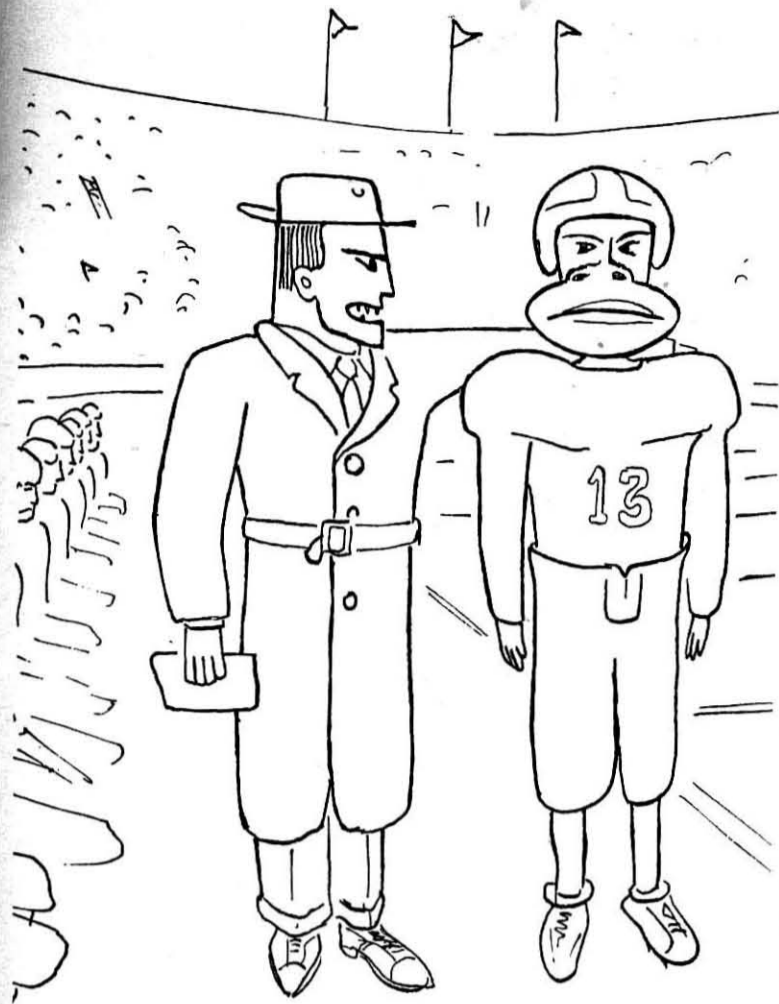
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**ARROW UNIVERSITY STYLES**



DNB

"Now remember—the hidden ball play."

Gad!

There was once an Indian Maid—but it took a buck to do it!

Gad!

Myrtle: Every time I get down in the dumps I buy a new hat.  
Gertie: I was wondering where you got them.

## ON THE RECORD

By Bill Whitney

concert series scheduled for the The variety and number of the Pasadena-Los Angeles area throughout the year indicate that, as usual, there will be more than enough opportunities for concert-goers to hear nearly anything in the way of serious music, performed by artists ranging in ability from capable to outstanding, and in programs representing all periods, from pre-Bach to immediate contemporary.

The problem for most of us is that of selecting from these concerts a reasonable number which will satisfy our personal tastes and at the same time not be too demanding on either our time or our expense accounts. Concerts are generally not restricted to week-ends, but may occur randomly during the week. Then our class schedules probably determine what concerts we can and cannot attend.

Transportation is usually a problem. Unless a concert is P.E.-able or bussable (or unless a friend has a car), it is usually out of our reach. For this reason, concert schedules which will appear periodically in subsequent issues of the Tech will list only those events which are reasonably accessible to the average Tech student unless something of outstanding merit occurs which deserves mention.

If one is sufficiently interested in hearing live music, probably

the best procedure, from the standpoint of economy, is to purchase a season ticket to some reliable series and attend faithfully as many of the concerts as possible. The saving in cost is in most cases quite considerable and generally a series is planned to provide programs that are varied. Admittedly, one can often obtain more quality in his listening during the year by hitting the high spots of several series, but the cost of this soon mounts up.

Of most immediate interest in the fall music calendar is the San Francisco Opera Company season at the Shrine Auditorium from October 25th to November 6th.

The repertoire consists of the familiar standbys, sung this year by a particularly notable cast which includes for example, Kirsten Flagstad, unexcelled Wagnerian soprano; Pia Tassinari, Lily Pons, Jussi Bjoerling, Jan Peerce, Set Svanholm, Ferruccio Tagliavini and Italo Tajo. Prices per opera range from \$1.50 to \$6.00 a seat.

On the 27th of October, another important event occurs with the opening of the 1949-1950 season of the Los Angeles Philharmonic under Alfred Wallenstein. If one has the time to attend 18 Thursday evening concerts during the year, it would be worthwhile to subscribe to the entire series. Guest artists include Britten, Ferkusny, Rubinstein, Heifetz, Serkin, and Simon Goldberg. Of particular interest will be the concert featuring Andres Segovia, outstanding guitarist, who will be soloist in the Castelnuovo-Tedesco Concerto for Guitar. Season tickets may be purchased for as little as \$9.00.

For those who haven't the time, or who don't want quite so many concerts, six of the L.A. concerts will be given in Pasadena during the year on a special series. Prices on a season ticket are \$6.00 and up.

The Elmer Wilson Concert Course at the Pasadena Civic Auditorium would be a particularly good investment for Tech students. On October 21, Italo Tajo will be presented, followed by Yehudi Menuhin, Byron Janis, the De Paur Infanry Chorus, Jussi Bjoerling, Claudio Arrau, Leonard Warren, Carol Brice, and Kirsten Flagstad. Season prices start at \$7.88.

For chamber music enthusiasts, the Coleman Chamber Series at the Pasadena Playhouse is excellent. The concerts are all conveniently arranged to take place on Sundays and the general quality of the performing groups is far above average. The Coleman season begins this year with Lotte Lehman, October 16,

(Continued on Page 6)

## Who Dealt This Mess

BY CARL FOX

A problem which frequently confronts the bridge player is, does his hand warrant an opening bid? The requirements for an opening bid of one in a suit have been established by the experts after much study and represent the minimum which is normally safe.

To open one in a suit requires 2½ honor count if the suit is five cards in length, 3 honor count for a four card suit. The length value of the five card suit makes up for the deficiency of honors.

### Honor Count

The table of honor count which is printed here is not complete, but other, more nebulous, values require expert valuation. In every case, if the suit in the hand contains more cards than shown here with the honors, the value is the same. But if it contains fewer than shown here, the value decreases. For instance, a Kx is listed as ½ but a singleton K is NOT worth ½.

| Suit | Value | Suit      | Value |
|------|-------|-----------|-------|
| AK   | 2     | KJ10      | 1     |
| AQ   | 1½    | Kx        | ½     |
| KQ   | 1     | QJx       | ½     |
| AJ10 | 1½    | KQJ       | 1+    |
| A    | 1     | x or void | +     |

Where x represents any card below a 10.

On the basis of the above table, these hands represent minimum holdings for an opening bid of One Heart.

|         |        |
|---------|--------|
| S xxx   | S QJx  |
| H AQxxx | H KQxx |
| D xx    | D Ax   |
| C KQxx  | C Kxxx |

|         |          |
|---------|----------|
| S xx    | S QJx    |
| H QJxxx | H KJ10xx |
| D KQx   | D KJ10xx |
| C Axx   | C x      |

### Preparedness

In opening the bidding with the last of the hands above the Heart bid is to be preferred over the Diamond bid because of the principle of preparedness.

Preparedness merely means that, before you bid, you figure out what you are going to do if partner makes the most embarrassing reply possible. In this case, assume that you bid One Diamond and he replies with Two Clubs. If you now bid the Hearts partner is forced to the three level to merely PREFER the Diamonds. But if the bidding had gone, One Heart, Two Clubs, Two Diamonds, he could then prefer the Diamonds and still show a weak hand by just passing.

Always try to leave your side an out before opening your mouth and starting it all.

### Suits

It may be said that many more suits are biddable than is commonly believed. The following is a partial list of biddable suits. Regular biddable suits are any four or five card suit equal to or stronger than QJxx, KJxx, AJxx, J10xxx, Kxxxx, Qxxxx, Axxxx, etc. Thus—

|      |       |       |
|------|-------|-------|
| AKxx | KJ10x | QJxxx |
| KQJx | AJ10x | KQxxx |
| AKQJ | AQxx  | AQJxx |

and xxxxxx are regular biddable suits.

If the hand contains another biddable suit then the conditional suits become biddable. These are suits similar to Qxxx, Kxxx, Axxx, xxxxx, Jxxxx, etc. These

(Continued on Page 4)

## LaBrucherie Gives Views on Tech Athletic Hopes

Bert La Brucherie, Coach of the Year of 1946, is at Caltech coping with the problem of getting a winning football team out of a school that presents so many inherent difficulties in the formation of good athletic teams.

Coach La Brucherie's hopes for future teams lie in the freshmen classes. "If we can get the frosh out we can get a good team," says La Brucherie, adding that Fazio looks like a real ball player. The frosh will have a chance to show La Brucherie what they have during spring practice.

### T or Not to T?

Whether La Brucherie will switch to a T formation or not depends to a great extent on the material he gets during spring practice. The coach is of the opinion that the single wing is coming back into its own.

Either the single wing or the T will be used in the future depending on the type of football material at hand. In any event the two formations will not be mixed by means of a shift.

La Brucherie believes that a game can be played well by using either one of these two formations, but that there is no advantage in combining the two. If the team gets enough depth he will install a two platoon system.

### S.C.I.C. "Fine"

La Brucherie thinks that the S.C.I.C. is one of the finest conferences in the country. The coach's reason for stating this lies in the fact that such colleges as Pomona attract good football material by virtue of the fact that a boy that would sit on the bench at a state university plays a lot of ball at a school like Pomona. Therefore these good players are attracted to the schools in this league. "Schools in the S.C.I.C. do not overemphasize athletics," says La Brucherie, and adding that, "the philosophy here is against athletic scholarships." It was his opinion that we should stay in the league since the Beavers would probably be playing the same schools as before if we became an independent team.

The Caltech football players' poise seemed to impress La Brucherie, who has worked with some of the finest ball players in the country. This poise is represented by the boys' behavior on the gridiron. The Beavers do not lose their heads when confronted with a losing score, but play consistent ball, and do not go to pieces. The coach says that the Caltech player likes the game, but does not, as a rule have an athletic background. To this end he is trying to get as many frosh as possible out for football.

La Brucherie came here because he has always liked to coach football and it is as interesting to coach here as anywhere. Caltech also challenges the abilities of a coach more than other schools. Said the coach, "I've always regarded Caltech as one of the finest institutions in the country."

### Gad!

Guest (to host in new home): Well, old boy, how do you find it here?

Host: Walk right upstairs, and it's two doors to the left.



WITH SMOKERS WHO KNOW...IT'S

# Camels for Mildness!



Yes, Camels are SO MILD that in a coast to coast test of hundreds of men and women who smoked Camels — and only Camels — for 30 consecutive days, noted throat specialists, making weekly examinations, reported

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Dabney—Ed Worrell  
Blacker—Pete Howell

SAVETZ CLEANERS and TAILORS

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He Is Our Representative in Your House  
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Open Mon. & Fri. Nights

"Men's Distinctive Fashions"

# Sky Atlas Being Prepared At Palomar Observatory

Something new, not under the sun, but reaching far beyond it, goes on.

In the vast areas of outer space, stars completely invisible to the naked eye of mere mortals are having their pictures taken for what will be the most far-reaching sky atlas in the history of mankind.

### Survey

The 2,000 star-maps in this atlas will be reproductions of photographic plates, each 14 inches square. As now planned, they will form a record of four years' research just beginning on Palomar Mountain in California, where the big 48-inch Schmidt telescopic camera, teammate of the new 200-inch Hale telescope, has gone to work for the National Geographic Society—Palomar Observatory Sky Survey.

As a mapper, the versatile Schmidt is literally universes ahead of the first crude efforts of man to chart his surroundings and the relatively few stars he could see with the unaided eye.

### River Valley

The earliest known map of any kind—a 4,500-year-old baked-clay tablet found in the Babylon region—shows a river valley which may have been that of the Euphrates cradle of civilization.

The ancient seafaring peoples of the Mediterranean used charts to guide their trading ships, and

a land survey of the rich Nile Valley was made for taxation purposes as far back as the 13th century before Christ.

The Chinese, Persians, Greeks and Romans were all active in map making—especially the Greeks, who laid the foundation for the modern science. The first known atlas was a map collection by the Greco-Egyptian astronomer and geographer, Ptolemy, who lived 18 centuries ago.

### Arabs

During Europe's Dark Ages, scientific interests suffered, and fancy filled the map's blank spots. Only the Arabs followed classical learning. Studying the physical heavens, they made celestial globes that helped keep knowledge alive.

### Mercator

The first modern atlas, though it was not so called, appeared in Europe in 1570. At that time commercial map production was beginning to grow into big business. The term atlas was first applied a little later to the work of the famous Flemish cartographer, Mercator.

According to the preface of this work, the name referred to a mythical astronomer king of Libya, and not, as has been generally assumed, to the god Atlas whose figure supporting the world, has adorned many atlas

title pages.

Through the ages, interest in the stars has developed from primitive curiosity to one of the most intricate of studies.

It was not until the invention of telescopes, however, that astronomers could really begin to see their way about the universe. A pioneer in the making and use of this instrument, Galileo, in the early 1600's, discovered thousands of new stars, noted Jupiter's moons, the rings of Saturn, the craters of the moon, and spots on the sun.

A half century later, Sir Isaac Newton, who also introduced a new type of telescope, made known his law of gravitation, which accounted for the movements of the solar system and made accurate predictions possible. By the middle 1880's, the infant science of photography was available to see stars no human eye could see, and to provide permanent records for detailed study.

Growing larger and larger, the modern telescopes—in reality, powerful high-precision cameras—are pushing out the boundaries of space. Palomar's Big Schmidt will make photographs of millions of stars whose complete identification will require centuries of work by astronomers.

The cost of physical production of the planned "National Geographic Society Palomar Observatory Atlas," entirely exclusive of the expensive years of research involved, is tentatively expected to run about \$2,000 a copy.

### TAU BATES

(Continued from Page 1)

perience? Does the firm use Tech's Placement Service? And, what emphasis do Personnel Managers place on extra curricular activities?

### Sampling

In addition, a number of less important points, peculiar to the particular field of the firm, will be covered. It is planned to conduct a representative sampling of industries in the various fields, classify the results, and make them available to all students.

### WHO DEALT THIS MESS?

(Continued from Page 3)

suits may also be bid when the hand is well above minimum honor strength. For example, with

S 98652  
H AK2  
D A43  
C KQ

open the bidding with One Spade.

Problem: What is the correct opening bid on—

|          |         |          |
|----------|---------|----------|
| 1        | 2       | 3        |
| S AJ1086 | S AKQJ  | S A3     |
| H K73    | H 87    | H J96542 |
| D 93     | D K7    | D KJ5    |
| C 752    | C QJ954 | C KQ     |

### Gad!

"I don't get it," said one pretty girl as she divested herself of her undergarments. "I tell the doctor my sinus is bothering me and he tells me to strip."

A naked redhead with a satchel on her lap replied, "My case is even more puzzling. I'm here to tune the piano."

## Leisure Time

This list is reprinted by popular demand for your leisure time. We hope you will find it convenient, useful, and complete.

The part of the campus which is rarely treated in this paper concerns the "Caltech girls."

### HUNTINGTON MEMORIAL HOSPITAL

Nurses' residence .....SY. 22111

### L. A. COUNTY HOSPITAL

Nurses' and student nurses' residence.....CA. 3161

### OCCIDENTAL COLLEGE

Erdman Hall .....CL. 69252  
CL. 69233  
Haines Hall .....CL. 69422  
CL. 69526  
La Casa .....CL. 69166  
Orr Hall .....CL. 69524  
CL. 69504  
Alpha .....CL. 63334  
Beta Phi Delta .....CL. 64362  
Beta Tau Zeta .....CL. 64221  
Delta Omicron Tau .....CL. 76970  
Gamma Kappa Theta.....CL. 71329

### POMONA COLLEGE

Harwood Hall .....LY. 51215  
Mudd-Blaisdell .....LY. 512155

### SCRIPPS COLLEGE

General exchange .....LY. 51211  
Browning Hall .....ext. 536  
Clark Hall .....ext. 537  
Dorsey Hall .....ext. 539  
Toll Hall .....ext. 538

### SOUTHERN CAL.

#### Sororities:

Alpha Chi Omega .....PR. 79387  
PR. 79349  
Alpha Delta Pi .....PR. 69205  
Alpha Epsilon Phi .....PR. 69390  
Alpha Gamma Delta.....PR. 79373

Alpha Omicron Pi.....PR. 79127  
Alpha Phi .....PR. 79708  
Chi Omega .....PR. 79037  
Delta Delta Delta .....PR. 79415  
Delta Gamma .....PR. 79898  
PR. 79925  
Delta Zeta .....PR. 79376  
Gamma Phi Beta .....PR. 79842  
Kappa Alpha Theta.....PR. 79389  
Kappa Delta .....PR. 79981  
Kappa Kappa Gamma.....PR. 79382  
Phi Mu .....PR. 69764  
Phi Sigma Sigma .....PR. 79609  
Pi Beta Phi .....PR. 69501  
PR. 79257  
Zeta Tau Alpha.....PR. 79406

#### Other Houses:

Harris Plaza .....PR. 69238  
PR. 79596  
PR. 79463  
PR. 79662

Elizabeth von KleinSchmid Hall.....PR. 79529  
PR. 69287  
PR. 79095

Sequoia Hall .....PR. 79913  
Willard Hall .....PR. 79605  
PR. 69033

Graduate House .....PR. 79428  
Moreland Co-op .....PR. 79730  
Nichols House .....PR. 79445  
Women's Residence Hall .....PR. 79019

#### U.C.L.A.

#### Sororities:

Alpha Chi Omega .....AR. 99145  
AR. 99142  
Alpha Delta Pi .....AR. 99077  
Alpha Epsilon Phi .....AR. 99152  
Alpha Gamma Delta.....AR. 99067  
Alpha Omicron Pi .....AR. 99179  
Alpha Pi .....AR. 99124  
AR. 99057

Alpha Xi Delta .....AR. 99310  
Chi Omega .....AR. 99205  
AR. 99420  
Delta Gamma .....AR. 99109  
Delta Delta Delta .....AR. 99292  
AR. 99346  
Delta Zeta .....AR. 99189  
Gamma Phi Beta .....AR. 99123  
AR. 99290  
Kappa Alpha Theta.....AR. 99025  
AR. 99022  
Kappa Delta .....AR. 99083  
AR. 99242  
Kappa Kappa Gamma.....AR. 99024  
AR. 96741  
AR. 99294  
Phi Mu .....AR. 99133  
AR. 97239  
Phi Sigma Sigma .....AR. 99048  
Pi Beta Phi .....AR. 99035  
AR. 99256  
Sigma Kappa .....AR. 99147  
Theta Phi Alpha .....AR. 99301  
Theta Upsilon .....AR. 99060  
AR. 99211  
Zeta Tau Alpha .....AR. 99186

Other Houses:  
Mira Hershey Hall .....AR. 36516  
Hilgard Club (Co-op).....AR. 99219  
Mathewson Club (Co-op) .....AR. 99132  
Twin Pines (Co-op).....AR. 96517  
AR. 99191  
Bannister Hall .....AR. 99177  
Douglas Hall .....AR. 99031

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**CURTIS A. WALKER**, veteran independent warehouseman of Wendell, N. C., says: "Season after season, I've seen the makers of Luckies buy fine tobacco . . . tobacco that makes a mild smoke. I've smoked Luckies myself for 20 years." Here's more evidence that Luckies are a finer cigarette.



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## Soccer Team Blanks UCLA

A wet field and uncleaned shoes were largely to blame for a good many of Caltech's soccer team sprawled on their faces last Saturday, but all in the line of duty. They fought their way to a 2-0 win over the UCLA eleven however.

### New Faces

Both Tech tallies are accredited to new talent. Swaroop Bandyopadhyay blasted one past the goalie well into the first half and Bob Wood sneaked one past during the second half. These and two other new men, Robin Williamson and Doug Inglis, very ably supported the old standbys of last year. Dave MacKenzie and Dick Fairall held up the right side of the forward line, strongly aided by halfbacks Schuyler, Crichton, and Williamson. Fullbacks Noble and Welch spent a rather inactive day, as the ball was almost always at the other end of the field. Nevertheless, they proved able when the situation demanded, letting only two balls reach the goalie.

### Uclans Return

At 12 noon Saturday, UCLA meets us on our own field in another practice game. This time it promises to be a little closer, though, as theoretically a few opposing first teamers were unable to play last Saturday. However, with another week's practice under our belts, we are apt to at least duplicate this week's victory.

### Attention

Coach Hill informs us that any man who does not report for practice by tomorrow, October 14th, will not be allowed to play on the soccer team this season. If interested in playing but unable to attend Friday, be sure to see Coach Hill beforehand.

## SPEAKIN' SPORTS

with Mike

Did you know that Caltech is the last stronghold of athletic purity? An outstanding L. A. sports writer recently uttered this gem of wisdom in excusing Caltech's teams from winning athletic contests. Yes, it's true that we don't lower ourselves to buying players, thereby forcing the exceedingly difficult job of molding players upon coaching staffs and students themselves. We can all be proud of the way the Tech remained in the game against powerful Whittier even when the score was way against us.

### UCLA Blanked

When I mentioned soccer as Tech's newly revived sport last week, little did I realize that local pumpkin booters would hustle out and drop a 2-0 defeat in UCLA's lap. Little stars twinkled themselves into a galaxy of teamwork in Saturday's contest and fought hard enough to warrant at least a couple of inches added chest expansion to every patriotic Techster. We've got our eye on you guys.

### Hail LaVerne

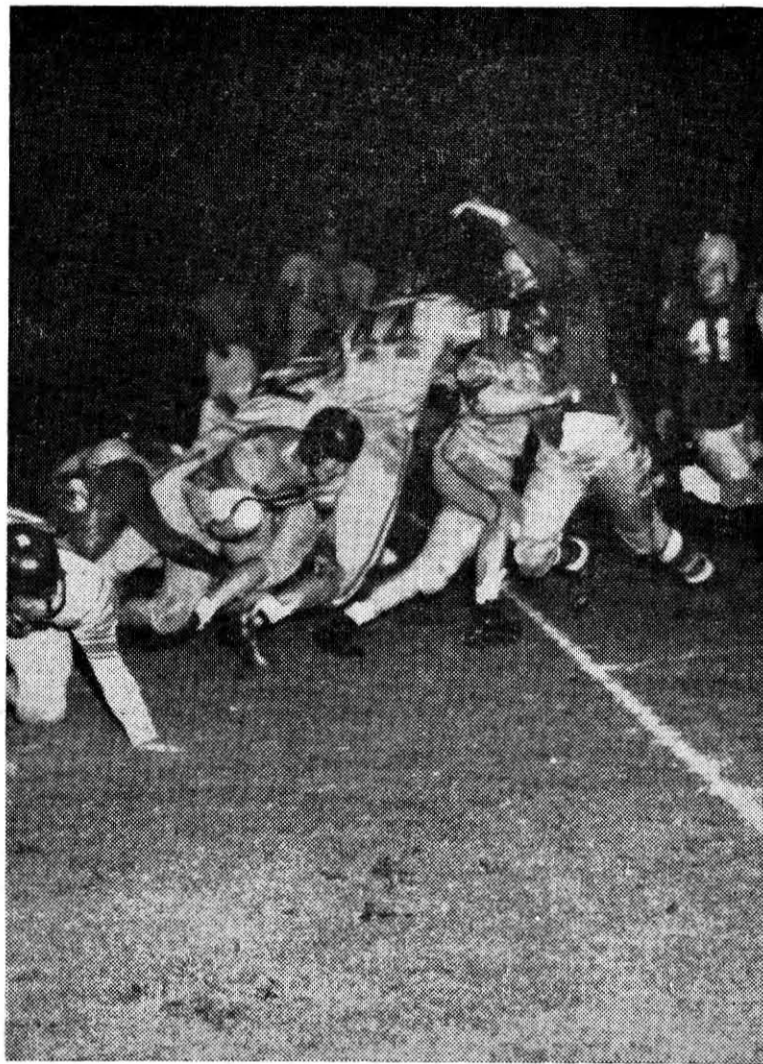
When I heard that LaVerne handed Redlands a 26 to 7 defeat this past weekend, I scurried out to have all my radio tubes checked for possible chance of mistaken reproduction. I'm sure that the conformation of the score by the morning papers brought a pleasant pity-pat to many a Beaver's heartbeat.

### Recognition

Before we file the Whittier game away for posterity, we should all remember the all out cleanliness with which the Poets played. Our hats off to Coach Newman and his team for showing us that besides playing good football they can show the kind of sportsmanship that keeps the game alive.

# Beaver Sports

## POET LINE HOLDS



Whittier's line just wouldn't let Babe Karasawa through to paydirt, as a last second scoring threat dies.

# Poets Overpower Tech Eleven, 55 to 7

## Local Offense Looking Up-- Passing Greatly Improved

Being outclassed was the only excuse that could be given for last week's loss to Whittier. That is if you consider an excuse necessary; for the Beavers were fighting their hardest right up to the final second of play.

### Offense Sharp

Both teams were strong offensively, but weak on defense. The score would have more nearly indicated the relative strength of the teams if it had not been for three gifts to the Poets. These were in the form of two fumbles inside our fifteen yard line and a pass interception on the Caltech twenty, all terminating as tallies.

### Passes Click

An outstanding play of the game was Karasawa's pass to Carson in the second quarter. With two Poets threatening interception, Carson snared the thirty-five yard toss to highlight one of the long Tech drives. Moore and Paulson also proved to be valuable receivers in a passing attack that was good for almost half Caltech's yardage.

### Tech Scores

Caltech's lone score came in the second quarter. After the orange and white marched the length of the field with six consecutive first downs, Karasawa went over from the two for six points. Two other Tech drives failed to reach paydirt. Whittier stalled the last one on their own three yard line with seconds left in the game.

### Viewing Foes

The big guns for Whittier were Gasparian on the ground and Tucker in the air. Tucker's passes were accurate whenever he could find receivers uncovered by the Beavers' pass defense. Three-fourths of Whittier's yardage was on the ground with the help of Burroughs, Reed, Harris, and Siciliano. Harris and Tucker each scored twice for Whittier with Tucker also passing for a couple of the other markers.

The Beavers rest this weekend but the following Saturday night finds them back in the Rose Bowl against Pomona for their second conference game.

### Score by quarters:

|          |    |    |   |    |    |
|----------|----|----|---|----|----|
| Caltech  | 0  | 7  | 0 | 0  | 7  |
| Whittier | 21 | 14 | 7 | 13 | 55 |

### Statistics:

|                        | Caltech | Poets |
|------------------------|---------|-------|
| First downs            | 16      | 23    |
| Total yardage          | 255     | 477   |
| Passes attempted       | 25      | 12    |
| Passes completed       | 10      | 8     |
| Passes had intercepted | 1       | 0     |
| Yardage, passes        | 116     | 120   |
| Penalties              | 2       | 9     |
| Yards lost, penalties  | 10      | 85    |
| Fumbles                | 3       | 1     |

## Leather Lungers View the Field

Word reaches us that Rios of Oxy and Linaweaver of Pomona, no doubt overwhelmed by the reported superiority of the Caltech cross country team, have left for fairer pastures. As the redoubtable Mike Sellen put it: "When last seen, Linaweaver's tail was going around the Harvard Library." This still leaves Johnny Barnes of Oxy, last year's Frosh Conference champ, to worry about but we are still hopeful of repeating last year's victory.

The turnout for Frosh cross country is excellent. The list includes Bob Deverill, Duane Marshall, Ed Stofel, Bruce Scott, Francis Scott, Terry Thomas, Dave Twining, Herb Wilkinson and a man known only as Pollet. Things look pretty good but if many more people come out, we'll have to start running in shifts. Kidding aside, Leather Lungers, we still need you out there.

### PASADENA BOWLING COURTS

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except Saturday, Sunday, and Holidays  
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Skates for Rent  
Instructions  
Pasadena Winter Gardens  
171 South Arroyo Pkwy.  
SY. 2-7151 RY. 1-6066

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WHEN YOU ARE THIRSTY  
OR  
WHEN YOU JUST  
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# THE DU PONT DIGEST

FOR STUDENTS OF SCIENCE AND ENGINEERING

## Research across the U. S. A.

### YOUNG SCIENTISTS ARE BUILDING CAREERS WITH DU PONT FROM CONNECTICUT TO TEXAS

When you think of Du Pont research, you may think first of Wilmington, Delaware. Actually, only eight of the Company's 36 research groups are located there. Du Pont scientists now pursue their studies in 11 states scattered from Connecticut to Texas.

Each of these laboratories is a self-contained operation. It may be devoted in part to fundamental research and applied research, or to investigations looking to the development of new products—sometimes a combination of these activities.

An unusual Du Pont laboratory is one opened last year at Newburgh, New York.

### Inside the Laboratory

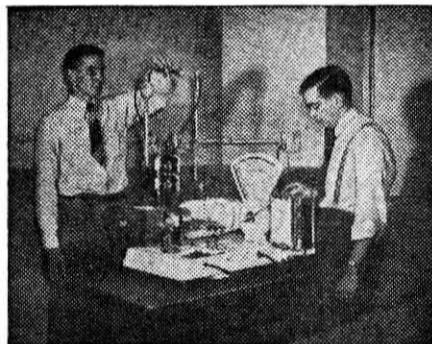
In the three-story building at Newburgh, scientists have at their disposal the most modern equipment for study of coated fabrics and plastic sheetings under all sorts of conditions. For example, a new product can be tested in a room maintained

at a temperature of -20° F. In other rooms, the effects of high temperature and humidity can be studied. Equipment is available for testing tensile strength, tear resistance, fading, flex and flame resistance, and many other characteristics. One of Du Pont's 33 libraries has quarters in the building; there is a photographic darkroom, as well as offices, conference and work rooms.

The Newburgh Laboratory works closely with the adjacent plant, which makes "Fabrikoid" pyroxylin coated fabrics, "Fabrilite" vinyl resin coated fabrics and plastic sheetings, "Tontine" washable window shade cloth, bookbinding materials, and other coated and impregnated fabrics and plastic sheetings for many uses.

### Research at Du Pont

Research has long been a major activity at Du Pont, and it flourishes in an atmosphere of appreciation, encouragement and patience. The new products, the new plants, and the new and better jobs of the years to come will develop from the painstaking research programs being carried on today in the laboratories.



H. A. Van Eiten, B. S. Ch., Colgate '42, and E. R. Grisé, M. S. Ch., Worcester Polytechnic Institute '48, investigating the properties of vinyl compounds used in plastic-coated fabrics.



K. F. Richards, B. S. Ch. E., Cornell '48, and E. K. Holden, M. S. Ch. E., Delaware '48, studying "Teflon" tetrafluoroethylene resin insulating material with special apparatus at the Newburgh Laboratory.

### Choice of Careers

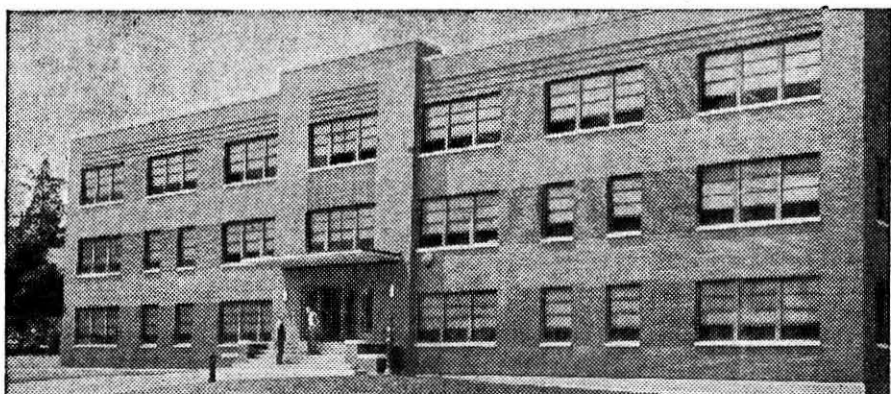
Each of the Du Pont manufacturing departments conducts continuous research. They operate much like separate companies, with interests ranging from heavy chemicals to plastics and textile fibers. Each holds challenging opportunities for college-trained chemists and physicists, as well as chemical, civil, electrical, industrial and mechanical engineers, also those specializing in production, sales and many other fields.

In this alert, ever-growing organization, young graduates can choose from a variety of careers the one that suits them best as their ability and interests develop.



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Newest Du Pont laboratory, at Newburgh, N.Y., was opened last year. It is devoted to research and development work in the field of coated and impregnated fabrics and allied products.

## POTPOURRI

(Continued from Page 2)

of-doors; last and most important is Psychology, because you have to imagine yourself as a fish underwater.

## Frosh Football

It appears that one of the Tech frosh on the football team told the coach that he didn't understand the logic behind some of the plays, and asked if the coach could recommend a good reference book on football theory.

Norman Gilkison, a cousin of Ian Campbell of the Geology Department, and the new National YMCA-YWCA Secretary for New Zealand, was a guest of the Caltech YMCA at its Cabinet and Board Meetings. He spent the last three years at Cambridge University, and he is on his way to new job in New Zealand.

## DuBridge

There is a very interesting and important article by President DuBridge on "Science and National Security" in the October issue of the Atlantic Monthly. There is a copy in the Humanities Library. The complete version has been published as an Institute Bulletin, which will shortly appear in the main library.

Three Techmen, Boyd Gage, Gene Spencer and Don Greenwood got a lucky break when they got the use of the DuBridges' house this summer while the President and his family went to Europe. It was a good deal for the DuBridges also, because it kept the house occupied and well kept up.

## Shaving on Wilshire

On the way back from the soccer game with UCLA, which we won 2-0, one of the team decided that he would like to try out a new electric razor, which works off the cigarette lighter in the car. Driving along Wilshire, we stopped for a red light in front of a woman who was sitting on a bench waiting for a bus. The sight of a man shaving in a car on Wilshire was too much for her modesty, so she closed her eyes, blushing, and kept them closed until we drove on.

## Y Conference

The Y organizational conference was a big success this year. About twenty people were there, including Stan Johnson, the Y Board Chairman and Caltech Alumnus. A great deal of work was done on setting up the program for this year, and an Active Membership Plan was arranged for those persons who desire to be active members of the Y.

The recent Internations Association meeting was such a big success that someone said, "Graduate students are becoming downright revolting . . . being so sociable."

## ON THE RECORD

(Continued from Page 3)

in a program featuring **Die Winterroise**. Subsequent concerts include the Pascal, London, and Fine Arts Quartets, the Albeneri Trio, and Alice Ehlers, Harpsichordist.

The Wilshire Ebell Monday Evenings on the Roof afford a unique opportunity to keep abreast of modern developments in music, as well as hear very fine performances of the old masters. Two of the concerts in the series have already been given, but fourteen still remain. The next is on Monday, October 17, when the program, in honor of the 75th birthday of Charles Ives, will consist entirely of works by this composer.

Of special note is a Bach program to be given sometime during the year, in which Joseph Szigetti will be featured in the "Fugue" Sonatas for unaccompanied violin, followed by choral selections. Other concerts will present new compositions by composers in the Los Angeles area, performed by groups of Southern California artists. Prices for the series are very reasonable.

## Opera Schedule

**Manon Lescaut**  
Tues. Evening, Oct. 25, 8:00  
**Rigoletto**  
Wed. Evening, October 26, 8:00  
**Tristan Und Isolde**  
Fri. Evening, Oct. 28, 7:45  
**Tosca**  
Sat. Evening, Oct. 29, 8:00  
**Samson et Dalila**  
Sun. Matinee, Oct. 30, 2:00  
**Don Giovanni**  
Mon. Evening, Oct. 31, 8:00  
**La Boheme**  
Tues. Evening, Nov. 1, 8:00  
**Die Walkure**  
Wed. Evening, Nov. 2, 7:45  
**Lucia Di Lammermoor**  
Thur. Evening, Nov. 3, 8:00  
**Carmen**  
Fri. Evening, Nov. 4, 8:00  
**Aida**  
Sat. Evening, Nov. 5, 8:00  
**Tales of Hoffmann**  
Sun. Matinee, Nov. 6, 2:00

## Ricketts Takes Lead in Bowling

Ricketts forged ahead into an early lead in the Interhouse Bowling League by taking seven of their eight games Monday at the Pasadena Bowling Courts. Blacker grabbed second spot with 5½ wins, Throop won 5 games, Dabney won 1½, and Fleming managed but one win.

Throop No. 1 copped team scoring honors for the first week of play, piling up a series total of 1850 pins, including best game of 658.

In general IH bowlers proved the converse of "Practice Makes Perfect," with an over-all average of only 131 to show for a summer's absence from the alleys. Throop's Duane Neverman was the sparkling exception as he fired a big 203 game, then added scores of 188 and 133 for top total of 524.

Fine games were also turned in by Fred Drury of Blacker with 197; Thorne Butler of Blacker, 188; Ralf Erickson of Throop, 185; Clinton Lew of Throop, 181; Win Soule of Ricketts, 180; and Woody Bratnober of Throop, 180 game and 511 series.

The physical education department has suddenly abandoned its two-year policy of giving one hour of credit for two hours of bowling. After helping to organize and supporting this sport to which more man-hours have been given than any other

## CAMPUS BREWINS

(Continued from Page 2)

causing no little consternation at the exclusive girl's school she normally (this word is a concession to the editor) attends.

Caltech's cheering section, Tom "one man who will probably not be living in Dabney after rotation" Stockebrand, now an official Darb (please excuse our error), was in good voice at the Whittier game, welcoming new arrivals with his stentorian, and now worn, greetings. The cheerleader from Whittier had his PA: we have our TS.

Whittierites, invited to the post-game dance, seemed to enjoy our hospitality. The 10-foot mobile model of Mortimer Snerd was a lovely treat, but nearly did in Dick Bird, who was the bottom half (you know, the half that doesn't eat). He emerged a slightly greenish cast, and leaned weakly against a pillar, the heel marks still visible on his Adam's-apple.

Sig Chamer drove Bob Laff and his date to her house in Arcadia after the dance Saturday. Laff, who has one (at least) word for every occasion, facetiously said, "Well, goodnight, Sig," and slammed the car door,

interhouse sport during the last two years, the department has reached its decision on the grounds that no member is present in the role of a supervisor. In spite of this obstacle, it is felt certain that the league will continue throughout its complete schedule.

whereupon friend Chamer drove off to bed, leaving the wordy one to take a taxi home.—And they talk about "B. F." Pyatt!

A dirty yellow carnation to George Smith for keeping the Dabney lounge illumination well above thirty foot-candles at the exchange last Friday. Over East, in Blacker, something is said to have gone wrong with the power. Mike Hall, Scott Lynn, Jim Henrickson and Chuck Davies were taking good advantage of the lack of electrons, and later, to a man, escorted their young ladies home. Most floodlighted Darbs were not so lucky.

The sagging Beak finally finds his way to the never-quiet Northeast. Many of the more innocent Rowdies have been wondering why it is that Brad Houser leaves early on the weekends with a sleeping bag under his arm and a smirk on his face, and heads eastward. Your inquisitive Beak, in order to solve this mystery, equipped himself with safari equipment and infrared film, and, donning a false moustache, trailed the suspect's Packard convertible (not a difficult task due to the generous trail of smoke) to a rendezvous at the home of the Sagehen. Later that night, Brad was discovered sleeping alone under a bush near French House. When confronted with the evidence, he lamely explained that his semi-diesel machine was getting about 10 miles to the quart (50 weight at that) and that his wallet

couldn't stand the 100-mile trip every night—get that—EVERY NIGHT. When the Beak later interviewed French House's Mother Superior, she expressed worry that the "poor boy might get set upon." We think she mean thieves, but you never can tell.

Fred Baily, Amherst's long gift to Ricketts, seems to be getting pretty good at shifting from one foot to the other, with a martyred expression on his face. Victim of a fracas at the Frosh Tea Dance, in which the little Oxy freshman who had stolen his heart was swiped by his erstwhile best friend, Barney Engholm, Fred repeated the performance at the after-game dance last Saturday. His date from that forbidden place was lured from the floor by Win Soule. She later reappeared brandishing a silk kerchief which Win was known to have picked up in Paris this summer. Take it from the Beak, Fred, stand up for yourself!

Ollie Gardner, who has supposedly been pining for one Teddy, now studying in Austria, was observed on the first day of school in close conference with Date-Bureau-John Noble. Not satisfied with this effort, he also tried hard at Van de Kamp's, but Bubbles said he was too short.

Jack Phweet-toot-dingding-honnnk Willis, noise-making magnate, is back on the scene with his 1000-watt amplifier. His former eastern associate ran the European gauntlet this summer, and summer, and escaped with

nothing more than an attentive Englishman. Indefatigable Jack, however, is back at the Toll-gate, still knocking.

Little Miss Carriage, our favorite typewriter, is beginning to sag at the platen, so it is time to put the weary Beak back in its turtle-skin pouch. A closing thought (maybe we can get this in where the editor won't notice it—he'll never read this far), what's the name of that group of buildings about 27 miles east of here? Clue No. 1: Girls go there. Clue No. 2: It begins with S. More clues next week.

## DARBS, BLACKER

(Continued from Page 5)

We saw a real action packed game last Monday when Dabney met Ricketts in their interhouse baseball undertakings. Leading 4-0 as the last inning started, Walt, the Green Shirt chucker, witnessed a happy group of Rickettsmen make five runs. Revenge to the tune of 2 runs by Dabney in their half of the last inning was a fitting climax for the afternoon's thriller.

## Distance Boys

With all teams professing dark horses of all natures, breeds and denominations, we feel it necessary to suggest that all you windy-lunged creatures begin getting in training to run the distances for your house. Times awastin'. Here's the interhouse cross country schedule:

Oct. 18—1½ mile run.  
Oct. 21—2 mile run.  
Oct. 28—2½ mile run.

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