# CaliforniaTech

Associated Students of the California Institute of Technology

FROSH CAMP **EDITION** 

Volume LXIII.

Pasadena, California, Thursday, September 21, 1961

Number 1

# Cosmopolitan Frosh Arrive

## **Parking Tags** To Be Issued By B & G

All students living on campus who intend to park a car in either of the two permitted places (the north end of Chester lot and the south end of T.P.) must register their car in the Physical Plant Office by Thursday, September 28. They will receive a parking sticker which must be attached on the lower right hand corner of the car's windshield. Off-campus students who will need to park their cars on campus overnight must also register. They will be issued a "B" sticker. Graduate students who want to park their car in the new lot behind the graduate houses should register for a "C" tsicker. Any car parked on campus without a sticker after the September 28 deadline will be considered to be illegally parked.

In addition, 24 special "A" stickers will be issued to the IHC for distribution to the houses and ASCIT. A complete set of parking rules is available at the Physical Plant Office.

ers was announced. The pro-

From associate professor to

physics; Eugene W. Cowan,

physics; Dino A. Morelli, en-

gineering design; G. Wilse Ro-

Rolf H. Sabersky, mechanical

engineering; David W. Wood,

mechanical engineering; and

physical chemistry;

motions are:

binson,

professor: Felix

**Tech Professors Promoted** 

H. Boehm,

Promotion of 19 faculty mem- Theodore Y-T. Wu, applied me-

chanics.

## Frosh Physics Revamped

After the games of mountain golf, the talent show, and the bus rides are over, classes are available to fill freshman spare time. As has been the case in several recent years, there is a new and radically changed course in a major freshman subject.

This year the Physics Department is proudly unveiling its new integrated two-year course.

Doctors Leighton, Neher, and Sutton have planned the course to present classical and modern concepts together where possible, making the basic physics course both more up to date and more interesting than it has been. Dr. Feynman will give biweekly lectures correlating with class notes and Halliday and Resnick's Physics for Students of Science and Engineering. Two classes and one three hour lab a week round out the course. This year's frosh lab, incidentally, will be programmed more closely than was the "Physics Free Lab" of previous years.

From assistant professor to

associate professor: James K.

Knowles, applied mechanics;

John H. Richards, organic chem-

istry; J. Beverley Oke astron-

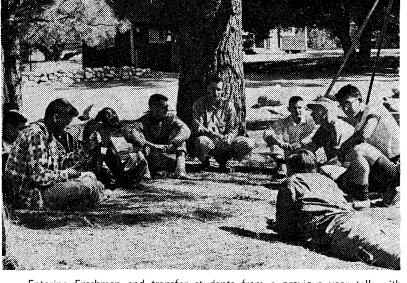
omy; Robert W. Oliver, econ-

omics; and David F. Welch,

From research fellow to sen-

(Continued on page 5)

engineering design.



Entering Freshman and transfer students from a previous year talk with upperclassmen, faculty.

## Caltech Glee Club **Auditions Hopeful Voices**

its 1961-62 season this Sunday, September 24, with auditions for all potential singers at 7:15 PM in Culbertson Hall. The Club's director, Mr. Olaf Frodsham, emphasizes that no previous singing experience is necessary. The main purpose of the auditions is to determine voice ranges. Tryouts are also and Tuesday evenings, again in to be held at 7:15 PM on Monday Culbertson, Anyone who is at all interested in choral music is urged to come out.

Also on Tuesday the Glee Club has its first rehearsal to begin learning music for the coming season. "It is essential to start early in order to be prepared for our concerts in the spring,"

The Caltech Glee Club begins state President Larry Kugler (Lloyd) and Manager Lauren Merritt (Fleming).

> The Glee Club has a long tradition of fine music. Each year it competes in the Pacific Intercollegiate Choral Festival, last year taking top honors in the Men's Glee Club Division. Plans for the Club's annual spring tour to Northern California are nearly complete.

> Each year a recording of the season's best numbers is made. A limited number of copies from the last few seasons are still available.

Glee Club representatives at Frosh Camp will include Jim Davis (Biology) and Tom Bopp (Ricketts).

"In trying to select the best all-around students from the large number of applicants, we continue to depend a great deal on the verbal aptitude and advanced math college board tests." This statement, from Dr. Peter Miller, Assistant Director of Admissions, indicates one reason for the difficulty involved in getting admitted to Tech. In both catagories, Tech freshmen scored higher than any other college's freshmen. The same holds true for the math aptitude, chemistry and physics tests. Although the overall test scores are not too much different from those of the class of 1963, they are a great deal higher than the classes of four or five years back.

The percentage of out of state applicants is higher this year than ever before. With 30% of class from California (17% from within a fifty mile raduis) and only another 17% from the other far western states, 53% of the class if from further away than 1000 miles. Included in this group are students from Greece, Guam, Mexico, Puerto Rico, Germany, Canal Zone and Canada.

This year there are 22 National Merit Scholars, 7 less than last year, and 5 General Motors Scholars, 2 less than last year's all-time high. But nearly two-thirds of the class has financial aid of some kind, including 65 Caltech scholarships.

## **Band to Practice**

The Caltech Band has its first rehearsal Thursday, September 28, in Culbertson Hall at 7:30 PM. Anyone who plays an instrument will be most welcome.

## **Bard Hails Students**

## Newton Greets All From Super Scooter



Zipping around campus in his newly acquired Cushman, Lt. A. G. Newton protects property, people, Techmen and parking places This man, the benevolent dispenser of parking citations, is far more than just a minion of the law to Tech students. He is the undisputed Poet Laureate of Caltech and his verses have brightened the lives of those who have had the privilege of hearing or reading his poetry.

Last June 8 was Senior Class Day, and to commemorate the occasion, Lt. Newton wrote and delivered a poignant message which is reproduced here.

To Mothers, Dads, and Relations

I have just a few words to

I think the Caltech students Are the greatest in every way.

(Continued on Page 2)

## **EDITORS WANT NEWSPAPERMEN**

The California Tech is recruiting a staff. Anyone, from freshmen to professors, will be welcomed in the Tech office on Monday iight. Although people with previous experience are useful, anyone who has an interest in newspaper work (almost any phase except inking the press) will be welcomed with open arms.

The paper is roughly divided into three parts: news, features, and sports. The three editors, Abell, Benson, and Molho usually take the responsibility for the first two, and Pete Ford, newlyappointed Sports Editor, for the last. Writers are needed in all three categories. We also need people who can do layouts, copy-reading and headline writing.

People who don't want to work on a regular basis are also wanted. In fact, anyone who wants to submit a letter or article should feel free to do so at any time of the year. Come around and see us. We rarely bite.

Officer Newton of the campus protective force poses on his new parking-ticket-mobile.

#### Editorial

## Notice To Freshmen

Welcome to Caltech.

At Student Camp you will be told several cliches, among them probably these: 1. You are the most promising freshman class ever to enter Caltech. 2. If you study diigently and hard, you will be able to remain at Tech. 3. About 30% of you will not graduate here in 1965.

That last statement is a statistical fact, but it may not hit hard enough to dissipate the afterglow of he first two. People have been telling you you've chosen a "rough" college and congratulating you on your acceptance here for several months now. "Sure it will be difficult," perhaps you're thinking, "but I'll get through somehow." In the back of your mind may be the phrase, "I always have before. . ."

It is my opinion that many of you have a severe shock in store.

I am taking to a certain majority of you now—that majority of you who will have a grade average below 3.0. You are about to go through a time that you will remember as difficult, maybe harrowing. (You may laugh it off now—that's your privilege as a frosh—but ask an upperclassman—or yourself, later.)

Let me tell you a few of the things that may happen to you:

- You will lose the sense of pride you once felt in your work. (One cannot be a perfectionist when there is not even completeness to one's work.)
- 2. You will feel frustrated in what you are doing, yet unable to pinpoint the cause of that frustration.
- You will feel so sure of failure—not success—each time you attempt to do work that you will seek—and find a hundred ways to avoid trying.
- You will feel the outside world getting away from you, like a cock, running too fast.
- 5. You will encounter things you will not understand even after prolonged study.

These are not enjoyable items to contemplate, yet they are among the elements of your environment-to-be. They can make a freshman into a Techman—or into part of that 30%.

All this is not being written in order to generate discouragement; quite the contrary. My point is that there is a lot of psychological discouragement built into the educational method here at Tech. So don't worry too hard if you find yourself "running scared"; that's the rule here, not the exception.

And you're among friends.

-molho

## T. A. 's

Among the things working against you in your attempt to get an education here at Tech are those particular grad students known as teaching assistants, or, fondly. T.A.'s.

T.A.'s exist to aid you in learning. They do not exist either to conduct classes and/or put you to sleep, contrary to popular opinion. In general, they know a great deal about their subject but very little about teaching it. Thus, unlike high school, yours is the battle to get the subject across. And you have only one weapon with which to fight: the QUESTION. My one suggestion is—USE IT. Corner your T.A. Ask him to do every problem you don't understand; get him to work other sections' test problems; insist on explanations of theory until you understand. (Chances are, if you don't understand, neither does half the class. Anyway, you're paying for T.A. explanations.) Use his office hours when you don't catch on to something. Bug your T.A. with frosh problems till they come out of his ears; otherwise he'll get in a corner and discuss tensor calculus with the section snake.

-molho

## CaliforniaTech

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LITTLE MAN ON CAMPUS



"ONE NICE THING ABOUT THIS COURSE—YOU ONLY HAVE ONE TEXT TO BUY."

#### **Primer**

## Sage Describes Tech

By GRIER BETHEL

#### Caltech

This is Caltech. Isn't It pretty? Look at all the pretty buildings. Look at all the Nice People. Goodie goodie — what Fun it will be to go to School here. If you Study fifteen hours every day you may be able to come back Next Term to have some more Fun. Lucky, lucky Techman.

#### The Textbook

Look at the pretty Book. Aren't you lucky to have such a good book for your Very Own? It is a Bargain because the publishers have cut their profits to sell it for \$12.95. You will have to read 200 pages every week and work the Problems at the end of Each Chapter. Do not worry if you can't understand the Text-you are not expected to since it was written by Three Men who did not know each other. Put a plastic book cover on it to keep the dust off, and you may sell it to a Freshman next year.

#### The Good Student

Do you see That Boy in the Front Row? He always sits in the Front Row. He is very Smart. See him take notes. My, my, he does not miss one Word of the Lecture. Does he? When the First Exam is handed back, he will get an A and you will get a D minus. Let us all get together after class and throw rocks at him.

#### The Senior

Do you see that Happy Man over there? He is a first-term Senior. He thinks he has It Knocked. He thinks the Rest will be Easy and that Graduation is right around the corner. Ha! Ha! He is going to Flunk third term P.E. Won't that be a laugh on him?

## Physical Education

by Dick Bibler

Do you already hate P.E.? No? Well, you will Soon. It Always comes Too Late or Too Early in the Day. Sometimes it even Comes on the Wrong Day. What you must do is to go to the Health Center and Be Sick. That is usually better than going to P.E. and Being Sick. In fact, it's usually better to Be Sick than do almost anything around Tech. The Exchange

I bet you are worried about Not Meeting Any Girls at Tech. Well, you needn't. Your House social chairman has a Big List of Girls. He'll invite All of Them to Exchange. You will find them Attractive, Intelligent and Wealthy, every last one of them. When you go to the Exchange, do not worry if the Girls seem Shy and Retiring at first. Techmen are notoriously socially advanced when compared to Ordinary People. Simply be Patient and the Girls will soon be as socially adept as you are.

#### The California Tech

Do you feel isolated now that you've Entered Tech? Are you afraid that you may miss out on the Finer Things of ife? Do you hesitate to ask Anyone a question for fear of Not Getting the Right Answer? Well, you can relax Now. The California Tech is the only Source of All Reliable and interesting information that you will ever Need To Know. But do you think All the "not stuff" is printed in the Tech. No. Some of It is so funny or important that it is known only to the Tech staff. Aren't you sorry that you are Not on the Tech staff. Poor, poor you. But Be Happy! You can be a Member of the Ingroup too. You can have your Humble Name in our Great Paper. Come to the Tech office next Monday night. After all, everyone knows that there is no homework or anything on Monday night. All there is to do is to work on the California Tech.

## **Newton Poem**

(Continued from page 1)

You have heard of snake dances and riots

That are really out of place, But our boys here on campus Never indulge in such disgrace.

We constantly here about space men-

Also the man in the moon,

But I'd rather stay earthbound on campus

And see your sons safely tucked in their rooms.

Now that vacation time is approaching

And the boys are leaving for home,

I'll be the lonesomest campus cop in town

Because I'll feel so all done.

I'll miss their alibis and namecalling

Such as "Fig Newton," "Flatfoot" and "Fuzz"

But when September rolls around again,

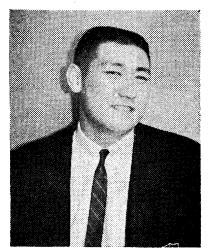
I'll feel peaceful as a dove.

Because all my beloved Caltech students

Will be returning once again,

To call me the names that I
really love—

"Fig Newton," "Flatfoot" and "Fuzz."

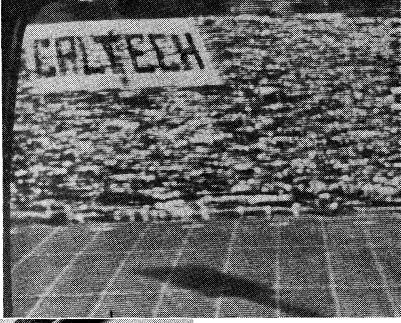


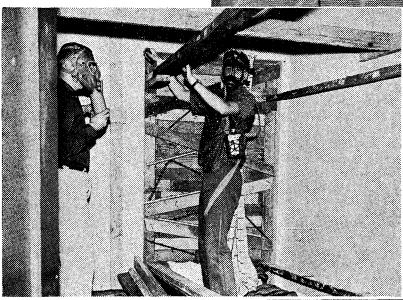
Bob Koh, ASCIT President



Sue Epstein, one of the theological students who visited Caltech in the YMCA's seminary student program, was unfortunately the only girl in the visiting group.

On January 2, 1961, the Washington Huskies card stunt section flashed this picture across the Rose Bowl and across the nation. Techmen thus created the first televised RF.

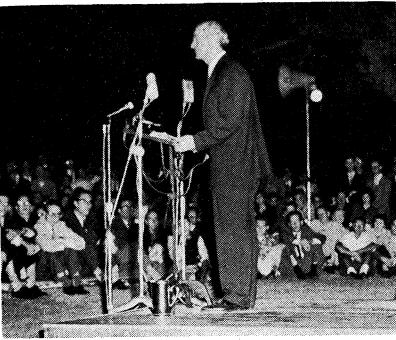




This room in Fleming was so arranged by its senior occupant in order to protect it while he was at the beach on Senior Ditch Day. Underclassmen got in with the aid of concentrated ammonia.

Jim Schlegeris was the winner of the bit part in the 1961 ASCIT Play, Camino Real. This is his part.





Dr. Linus Pauling addresses crowd gathered on the Athenaeum lawn.



#### ONCE MORE, UNTO THE BREACH

With this installment I begin my eighth year of writing columns for the makers of Marlboro Cigarettes, as fine a bunch of men as you would meet in a month of Sundays-loyal, true, robust, windswept, forthright, tattooed-in short, precisely the kind of men you would expect them to be if you were familiar with the cigarettes they make-and I hope you are-for Marlboro, like its makers, is loyal, true, robust, windswept, forthright, tattooed.

There is, however, one important difference between Marlboro and its makers. Marlboro has a filter and the makers do not-except of course for Windswept T. Sigafoos, Vice President in charge of Media Research. Mr. Sigafoos does have a filter. I don't mean that Mr. Sigafoos personally has a filter. What I mean is that he has a filter in his swimming pool at his home in Fairbanks, Alaska. You might think that Fairbanks is rather an odd place for Mr. Sigafoos to live, being such a long distance



from the Marlboro home office in New York City. But it should be pointed out that Mr. Sigafoos is not required to be at work until 10 A.M.

But I digress. This column, I say, will take up questions of burning interest to the academic world-like "Should French conversation classes be conducted in English?" and "Should students be allowed to attend first hour classes in pajamas and robes?" and "Can a student of 18 find happiness with an economics professor of 90?"

Because many of you are new to college, especially freshmen, perhaps it would be well in this opening column to start with campus fundamentals. What, for example, does "Alma Mater" mean? Well, sir, "Alma Mater" is Latin for "send money".

What does "Dean" mean? Well, sir, "Dean" is Latin for "don't get caught".

What does "dormitory" mean? Well, sir, "dormitory" is Latin for "bed of pain".

Next, let us discuss student-teacher relationships. In college the keynote of the relationship between student and teacher is informality. When you meet a teacher on campus, you need not salute. Simply tug your forelock. If you are bald and have no forelock, a low curtsey will suffice. In no circumstances should you polish a teacher's car or sponge and press his suit. It is, however, permissible to worm his dog.

With the President of the University, of course, your relationship will be a bit more formal. When you encounter the President, fling yourself prone on the sidewalk and sing loudly:

"Prexy is wise Prexy is true Prexy has eyes Of Lake Louise blue."

As you can see, the President of the University is called "Prexy". Similarly, Deans are called "Dixie". Professors are 'Proxie". Housemothers are called "Hoxie Moxie". Students are called "Amoebae".

6 1961 Max Shulman

This uncensored, free-wheeling column will be brought to you throughout the school year by the makers of Marlboro and Marlboro's partner in pleasure, the new, unfiltered, king-size Philip Morris Commander. If unfiltered cigarettes are your choice, try a Commander. You'll be welcome aboard.

#### **Drugs Sundries Cosmetics Tobaccos** CALIFORNIA REXALL **PHARMACY**

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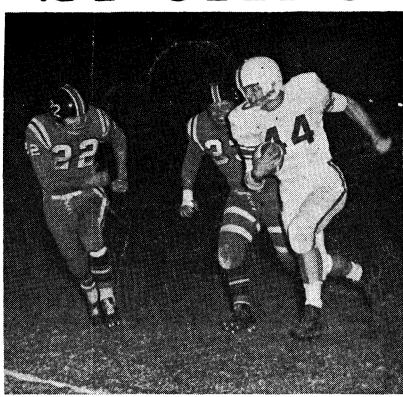
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# SPORTS



Techman eludes Oxy pursuer in game of several seasons ago.

## Plans For Coming Athletic Season Aired

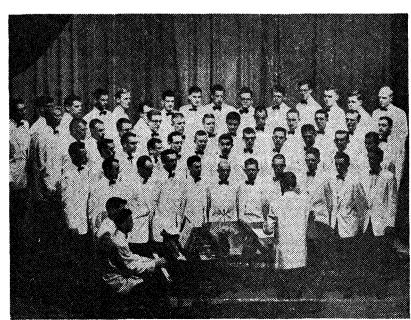
By PETER FORD

A short talk with Athletic Director Harold Z. Musselman resulted in the following miscellaneous facts . . . Freshman football practice starts Monday afternoon under new coach Willard Kraft . . . Water polo starts practice for both frosh and varsity with coach Warren ("Web") Emery at 4 p.m. Monday. The team has lost many fine members from last year's conference co-champs, including two all-con-

ference picks. Returning lettermen are led by all-conference forward Bruce Chesebro . . . Varsity and J.V. soccer also begin practice at four o'clock Monday. The coach is Lee Andrews . . . Cross country practice starts Tuesday at 4 p.m. under coach Walter Mack. A number of lettermen are expected to return from last year's fine team which finished first in the non-professional division of the conference, i.e. SCIAC minus Oxy.



Glee Club director Olaf Frodsham leads a dynamic selection at Glee Club Spring Concert.



Tryouts for the Caltech Glee Club will be held Sunday, September 24, at 7:15 p.m.

## 13 Lettermen Out For Football; Ends, Center Weakest Positions

By VINCE HASCALL

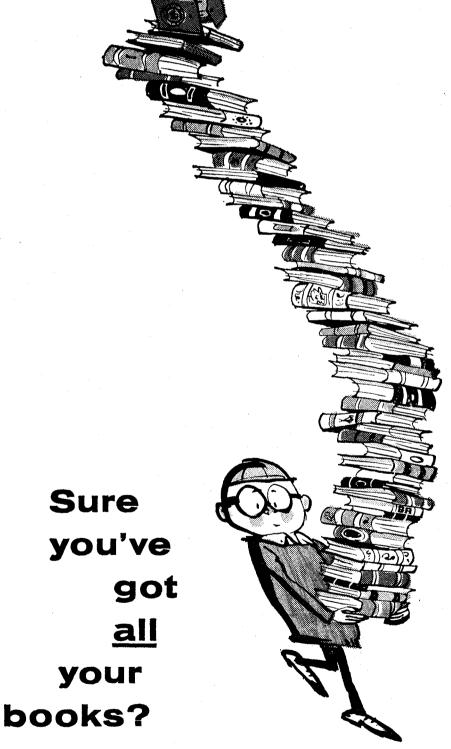
The prospects for a successful Caltech football season appear bright at the outset despite several major dark spots. Graduation left the 1960 starting lineup intact and presently thirteen returning lettermen have donned football togs and taken to the gridiron. A larger squad of 28-30 including a large contingent of sophomores from last year's freshman team should also provide much needed bench strength for the Beaver squad.

The backfield appears especially strong with three senior twoyear veterans back to tote the pigskin. Aggressive Ed Cline will be rugged at fullback and Ed Miller and Vince Hascall will provide an experienced punch at the halfback spots. Junior Dave Barker, ably backed up by sophomores Bob Leiberman and Bill Smith, will be calling the signals. The backfield has an unusual amount of depth this season with Geary Younce, senior letterman, and sophomore standouts Mike Cosgrove and Arden Walters vieing for starting berths at halfback. Versatile Evan Hughs, who has played virtually every position on the team the past two years, will see plenty of action at fullback and West Point transfer Steve Gorman will be an adept and rugged ball carrier at either halfback or fullback.

The line suffered several heavy, unexpected losses as the 1961 season starts without the services of four of last year's mainstays in the forward wall. The crucial threat of all-conference end John Arndt will be missing due to an injury incurred during last year's baseball season. Senior Bill Hassenzahl and Junior Jim Morrow

The backfield has an unusual should be strong contenders for amount of depth this season with Geary Younce, senior letterman, and sophomore standouts Mike Cosgrove and Arden should be strong contenders for starting roles at end with senior Frank Ridolphi and sophomore Leon Thomsen providing keen competition.

The center of the line poses another serious problem as senior Joe Bocklage goes on leave of absence. Sophomore Tom Krueger at 190 lbs, backed by sophomore Bill Smith should fill the center gap. At the guard positions, juniors Jack Arnold and Truman Seely return to their starting roles. Juniors Ron Koretz and Ralph Schuey should provide some of the much needed depth at this spot. Senior Carl Baum and sophomore Jim DeKlyen will be tough at the tackles. Sophomore Dave Hewitt, guard; Lee Peterson and Art Johnson, end or halfback; Frank Vlatch, tackle; and Sacramento City College transfer Larry Ruff, guard or fullback, round out the present roster.



Check them off—English Lit, History, Psych, B of A checkbook.

Bank of America checkbook? Naturally! It's one book that really comes in handy. Helps you keep track of your funds. Automatically gives you a receipt for paid bills. And with a Tenplan Checking Account you pay only for the checks you use! Open your checking account today at...BANK OF AMERICA

LAKE-GREEN BRANCH 

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PASADENA, CALIFORNIA

## **Promotions**

(Continued from page 1)

ior research fellow: Rudolf L. Mossbauer, physics; Arthur F. Messiter, aeronautics; Sten Samson, chemistry; Richard L. Sears, physics; John D. Smith, biology; and Paul O. P. Ts'O, biology.

From instructor to assistant professor: Peter V. Mason, electrical engineering.

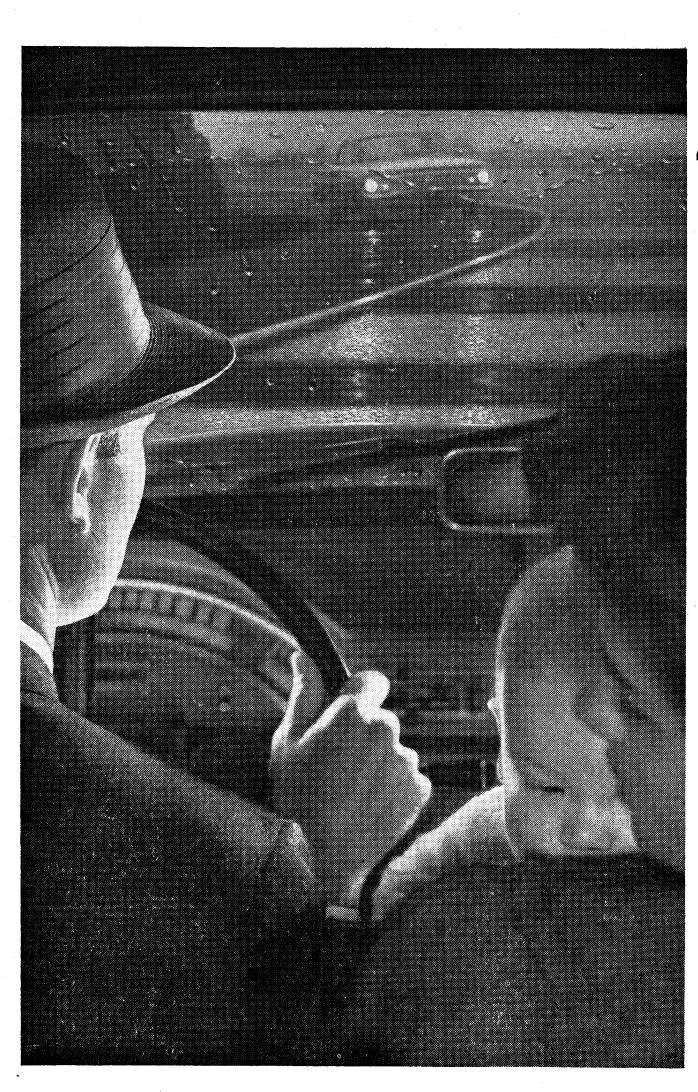
## CAL TECH











## "Talking road" that can save your life!

The visibility is almost zero and ahead is a sharp curve.

Suddenly, beneath your wheels, the road says: "Slow down!" It does this by sending sound and low vibrations through your automobile's frame. You get the message and cut your speed.

This road warning system—called a "rumble strip"—cut accidents in test areas by nearly two-thirds. It is made chiefly from a new kind of plastic developed by Standard's scientists... one so rugged that it will stand up to the pounding of the heaviest traffic.

The rumble strip is part of Standard's continuing interest in traffic safety, which includes driver training, seat belts in Company cars, educational films for schools, and widespread distribution of safety tips.

The tough plastic which makes the rumble strip possible is only one of a wide variety that our scientists are creating to help manufacturers bring you new and better products.

They include super-strong plastics for car bodies; tough, versatile plastics for building materials; long-lasting plastic fibers to increase the durability of everything from clothing to tires.

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CAN YOU USE A **HUNDRED BUCKS?** 

THAT'S WHAT YOU CAN WIN IN EVERY ONE OF

# VICEROY'S Big College Football Contests

IT'S EASY! Just pick the ten winning teams, predict the scores—and you're in the money!

## ONLY STUDENTS ON THIS CAMPUS ARE ELIGIBLE!

#### FIRST CONTEST OCTOBER 7111

All you have to do is clip the coupon, pick the winners and predict the scores—then figure out how you're going to spend that hundred bucks! It's easy . . . i just clip the coupon below or get an entry blank where you buy cigarettes and fill in your predictions of the ten game scores. Then mail it with an empty Viceroy package or a reasonable rendition of the Viceroy name as it appears on the package front to Viceroy at the Box Number on the entry blank or drop it in the ballot box conveniently located

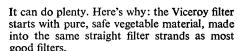
Open only to students and faculty members. Enter as many times as you want. Simply send an empty Viceroy package or reasonable rendition of the Viceroy name with each entry.

Entries must be postmarked or dropped in the ballot box no later than the Wednesday midnight before the games and received by noon Friday of the same week. Next contest will be on games of October 21—when you'll have another chance to win.

## DON'T SMOKE ANOTHER CIGARETTE UNTIL YOU LEARN WHAT

VICEROYS Deep Weave\* Filter

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Got The Blend! \*Reg. U.S. Patent Office

Got The Filter . . .

## HERE ARE THE CONTEST RULES-READ 'EM AND WIN!

1. Any student or faculty member on ithis campus may enter except employees of Brown & Williamson, its advertising agencies, or members of their immediate families. All entries become the property of Brown & Williamson—none-w ill be returned. Winners will be notified within three weeks after each contest. Winners names may be published in this newspaped: . You may enter as often as you wish, provided each entry is sent a idividually. Contest sub ject to all governmental regulations. Emb lies must be postmarked or dropped in ballot box on campus no, later than the Wednesday midnight before the games are played; and received by noon Friday of the same week. The right to dis continue future contests is

Filter Tip

2. Entries must be in contestant's own name. On the coupon in this ad or on an Official Entry Blank or piece of paper of the same size and format, write your predictions of the scores of the games and check the winners. Enclose an empty Viceroy package or a reasonable rendition of the Viceroy name as it appears on the package front. Mail entry to Viceroy at the Box Number on the entry blank or drop in Viceroy Football Contest Ballot Box on campus.

3. Entries will be judged by The Reuben H. Donnelley Corp. on the basis of number of winners correctly predicted. Ties will be broken on the basis of scores predicted. Duplicate prizes awarded

4. Winners are eligible for any prize in subsequent contests.

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## LOOK!

HERE ARE ALL THE PRIZES YOU CAN WIN!

1st PRIZE 2nd PRIZE \$50 3rd PRIZE \$25

**5 OTHER PRIZES** OF \$1000 EACH

And a free carton of Viceroys to every contestant who names all ten winning teams—REGARDLESS OF THE SCORES!

For games played For games Dot. 7th
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## Viceroy College Football **CONTEST NO. 1**

Here are my predictions for next Saturday's games. Send my prize money to: (PLEASE PRINT PLAINLY) ADDRESS\_ **SCORE** WIN SCORE WIN U. C. L. A. Ohio St. U. of So. Calif. lowa L. A. St. U. C., Santa Barbara San Diego St. Long Beach St. Syracuse Maryland Michigan Army Purdue Notre Dame Air Force S. M. U.

Cal. Tech. Azusa Contest open ONLY TO STUDENTS AND FACULTY ON THIS CAMPUS. Mail before midnight, Oct. 4, to: Viceroy, Box 94-C Mt. Vernon 10, New York

Alabama