

Merten & Groner Win Nat'l Debate

Take Seven Out of Eight in Men's Debate Division; Eligible for Pi Kappa Delta Award of Distinction

Ulrich Merten and Stan Groner, participating last week in the Pi Kappa Delta national tournament and convention held at Oklahoma A. & M. College, Stillwater, Oklahoma, won seven out of eight rounds in the men's debate division. This entitled them both to a Superior rating, the highest rating awarded at the tournament.

One hundred thirty-three Pi Kappa Delta chapters comprising people from 35 states were represented at the tournament—640 delegates in all. There were 110 men's debate teams, composed almost entirely of liberal arts students, debating the question "Resolved: That the non-Communist nations form a new international organization." The tournament consisted of extemporaneous speaking, oratory, discussion, and men's debate.

McCrery Chaperoned
Groner, a junior ME, and Merten, a senior chemist, were accompanied by Dr. Lester McCrery, their debate coach. Winning this tournament make Ulrich and Stan eligible for the Degree of Special Distinction, which is the highest honor awarded a Pi Kappa Delta.

Stay in A. & M. Dorm
While in Stillwater the two stayed in the A. & M. dormitories and ate most of their meals in the student union cafeteria. During the time they were not debating they attended the Pi Kappa Delta business meetings. They also managed to find time to take in a square dance, a formal dance, and a barbecue.

Cheer Leaders
Those interested in becoming assistant cheer leaders for the next school year should contact head cheerleader Leon Vickman (Room 37, Dabney House), or leave a note in the "V" box of Dabney House within the next week, as practice will begin immediately.

Wirsching Speaks Before CE Chapter

Last Monday the student chapter of civil engineers was honored with a talk by one of California's first registered civil engineers, Mr. Carl B. Wirsching.

The informative talk, "40 Years of Engineering," covered incidents in the speaker's broad experience, covering construction of the Colorado Street Bridge, Los Angeles garbage disposal facilities and projects of the Army Engineers in World War II.

Rowdies Announce Social Schedule

Last Saturday night the Rowdies started their third-term social program under the newly-elected Walt Eager with an April Fool's dance. Tomorrow night the Rowdies will come out again, for an exchange—this one with Haines Hall at Oxy.

Tonight the Ricketts crew team is holding practice in Club 34 with new sewerpipe Neil Sundt holding the stopwatch. This will be in preparation for the coming Dabney-Ricketts barn dance at Mountain Oaks the following weekend.

Also on the social agenda for the spring quarter are the annual Ricketts-Fleming outdoor dinner formal and a luau—a Hawaiian feast with authenticity assured by "Mauna Loa" Sereno, who is chairman of the committee planning the affair.

Campus Calendar

- FRIDAY, APRIL 6**
11:00 Assembly: "Industrial Research," C. E. K. MEES
1:30 Golf; Oxy Varsity at Tech
4:30 Swimming; Redlands Varsity and Frosh at Redlands
- SATURDAY, APRIL 7**
9:00 Art Class; O4 Mudd
1:30 Tennis; Redlands Varsity at Tech
Frosh at Redlands
1:30 Track; Oxy Varsity and Frosh at Tech
2:15 Baseball; Redlands Varsity at Tech; Frosh at Redlands
- TUESDAY, APRIL 10**
2:30 Tennis; Cal Poly Varsity at Tech
4:15 Baseball; Cal Poly Varsity at Tech
4:30 Swimming; Whittier Varsity at Tech
- WEDNESDAY, APRIL 11**
3:30 Baseball; Pomona Frosh at Tech

Attention Seniors!
There will be a class meeting in 201 Bridge at 11:00 a.m. Monday, April 9. The main topic of discussion will be the class gift.

Mees to Talk At Assembly

"Opportunities in Research" will be the topic of a talk by Dr. C. E. K. Mees at tomorrow's assembly. Dr. Mees is now vice-president in charge of research at the Eastman Kodak Co.

Dr. Mees is at Tech to deliver the 1951 series of Haynes Foundation Lectures at the Athenaeum. The first two of these talks were given Monday and Wednesday evenings, and the concluding address will be given tomorrow evening at 8:15 p.m. in the Athenaeum.

Civilization and Technology
The subjects of these addresses are Civilization and Tehcnology, and the Effect of Technology on the Organization of Society.

The Haynes Foundation is a Los Angeles organization, founded in 1926 which sponsors studies of social, economic, and governmental problems especially in the L.A. area. In the lectures, started in 1949, distinguished scholars are invited to Southern California to discuss important problems of contemporary life.

Man Rose by Science
In his lecture on Monday, Dr. Mees said, "we see man emerging from the animal state not by any political or social change but by development in his daily life by the use of tools." Civilization itself, he declared, owes its origin to a basic invention in the technology of food production.

Broad Interests
Dr. Mees has been with the Eastman Co. since 1912 when George Eastman brought him from England. He has risen in the organization till he is now at his present job. He is a recognized authority on color photography and photographic theory. However, his interests are not limited to photography, he being interested also in Egyptology and Astronomy.

"His writings have been most thoughtful and thought-provoking," said Dr. DuBridge. "The distinction of his scientific work and the broad scope of his interests make him an ideal interpreter of the subject he has chosen."

Alumni Seminar To be April 14

The 14th annual Seminar of the Alumni Association will be held Saturday, April 14, on the Caltech campus. A sparkling program of talks, exhibits and social hours promises an interesting and informative day for the alumni and their wives and guests.

The morning program will consist of three out of six talks, notably a discussion of "High Energy Physics," by R. F. Bacher, former AEC head. Dr. Peter Kyropoulos will give a talk on "Automobile Design Trends," both in the body and in the mechanical development.

Dr. James Boyd, Caltech '27, Director of the U.S. Bureau of Mines, will give some authoritative information on "Our Strategic Mineral Resources." Other talks include "The Philosophy of Science," by Dr. Charles Bures; "Uses for Radioactive Tracers," by Dr. G. C. Dacey, and "Organic Chemistry and Its Place in Science," by Dr. L. Zechmeister.

Lunch will be served in the student houses, followed by exhibits of the billion-volt synchrotron and the laboratories of the new Engineering Building. For the weary, the Musicales will be playing in Dabney Lounge, and the Public Affairs Room will be on display.

Just before the 5 to 6 o'clock social hour in Dabney Lounge, Dr. George Beadle will talk on

President Truman Approves Draft Exemption Exams

Radio Club
There will be a meeting of the Radio Club in 401 Bridge next Monday for the purpose of electing officers for the next year. All members are requested to attend.

April 12, Starting Date For Applicants; Caltech Chosen as Testing Center

President Truman last Saturday announced a new system of deferments for good students, using an examination and scholastic standing as the basis for possible deferment.

The purpose of the tests will be to determine the learning ability of the students rather than the extent of knowledge.

Men wishing to take the test must wait until April 12 to obtain an application card from their draft boards. The cards are to be filled out and mailed to the Princeton University Examining Service, to which they are already addressed.

The test will be given to draft registrants who have begun, and plan to continue, their college or university studies, graduate or undergraduate.

Official Announcement
The Selective Service announcement said: "The test presupposes no schooling beyond the ordinary high school preparation for college.

"Scores on the test, together with evidence of scholastic performance in college, will be used by the Selective Service local boards in considering the eligibility of registrants for occupational deferment as students."

Tests at Caltech
The tests will be given on May 26, June 16, and June 30 at three Pasadena schools: Caltech, PCC, and Muir. These schools will handle students from Draft Boards 90, 91, and 94, and also students from other parts of the country going to school here.

Each of these centers is identified by a number (Caltech is 111 Pasadena), and applicants must designate the school at which they wish to take the test by the number.
Each student should mail only one application, since if more than one application is received by the Princeton Exam Service no ticket will be sent admitting the student to the test. In reporting for the test, the student must bring an official document showing his Selective Service number and the draft board which has jurisdiction over him. An applicant can take the test only once.

Dean Jones feels that under this new system the very great majority, if not all, of the Caltech students will be deferred.

New Graphics Course Offered

The Department of Engineering Drafting is offering two new courses in advanced engineering graphics (D 7). The first, Graphical Calculation, is a course on the graphical methods for the solution of algebraic and numerical problems, graphical integration, the design of slide rule scales and other calculators for special uses, and the general theory of the 'design of nomographic charts. There will be one three-hour meeting per week, and the course carries four units. The instructor will be Mr. J. S. Campbell.

Product Development
The second course is titled Outline of Product Development and the instructor will be Mr. D. F. Welch. The objective of this course is to broaden the student's viewpoint relative to product design through a series of lectures, correlated reading assignments and design problems. A fundamental approach to the design of mass produced products will be emphasized with consideration given to predesign research, patent production, costs, and appearance, supplementing the purely functional approach of the machine designer. Four units are offered here also, with one three-hour meeting per week.

Not Too Late
Both courses have already been started, but it is not too late for those interested to sign up. Prerequisites to either course are D1a and D1b. A knowledge of determinants is helpful for Graphical Calculation. For further information, see Mr. Welch or Mr. Campbell at 212T. Both courses are offered under the same catalog number, D 7.

Dr. Shedd to Speak at Banquet; CIT Y Holds 35th Anniversary

Tonight the Caltech Y will hold its 35th annual dinner in the Athenaeum. The guest will be Dr. C. P. Shedd, professor of Christian methods at Yale University and an outstanding pioneer in the field of religion in higher education.

For almost 30 years Dr. Shedd has devoted himself to training young theologians to meet the religious needs of American colleges and universities. His investigations into the place of religion in higher education has taken him to Europe as well as to scores of institutions in the United States.

Modern Faith
Tonight he will speak on the development of a faith to meet these revolutionary times.

Preceding Dr. Shedd on the program will be a few short reports by members of the Y cabinet.

The activities and progress of the Y during the past year will be reported by the outgoing president, Dick Libbey. A few brief remarks also will be made by Wes Hershey, Y director.

The diners are to be treated this year to a turkey dinner with the trimmings supplied by a violin duet, by Doug Calley, '51, and

Varney Explains Metallic Crystals

The demonstration lecture tomorrow evening will feature "Metallic Crystals—Inside Out," by Prof. Wilbur R. Varney.

In his lecture Prof. Varney will demonstrate the crystalline structure of metals and alloys with the aid of organic chemicals and polarized light. He will illustrate his lecture by the use of photomicrographs of the crystalline structures found in metallic objects related to everyday life.

The schedule of Friday evening lectures for the remainder of the term is as follows:

- April 13—"Biochemical Power Plants in Living Organisms," by Dr. G. G. Laties.
- April 20—"The Structure of Molecules as Determined by the Diffraction of Electrons," by Dr. K. W. Hedberg.
- April 27—"Color Vision and Photography," by Mr. John S. Campbell.
- May 4—"Proteins," by Prof. Henry Borsook.
- May 11—"Some Characteristics of Earthquakes," by Prof. Hugo Benioff.
- May 18—"Computing Machines and Their Applications," by Prof. G. D. McCann.
- May 25—"The 200-inch Hale Telescope," by Dr. Ira S. Bowen.

"Genes and the Chemistry of the Organism."

Dinner will be held at 6:30 in the Pasadena Masonic Temple, with after-dinner introductions by G. K. Witworth, alumni president, and remarks by Dr. DuBridge. The main speaker for the evening will be Dr. Horace N. Gilbert, professor of economics, who will discuss "Germany, History in the Making." He will speak from experience gained on government assignments in Germany.

Carl Tutschulte, '31, is the director in charge of this Alumni Day program, with Gerald Foster, '40, as chairman. Students are requested to put forth their best appearance and behavior for the visitors.



Merten and Groner

New Movie on Life at Tech Being Taken

The motion picture about student life at Caltech is well under way. The actual filming has been in progress for over two weeks. Shooting started during the holiday week, at which time the scenes of campus equipment and research were taken.

As students began to return to the campus for the spring term, the camera was focused on activities around the student houses and Throop Club.

Cameras Everywhere
All this news shouldn't come as a surprise to members of the student body, certainly not to members of some English classes who unsuspectingly walk into their regular classroom to find it filled with multitudinous floodlights and many people to direct them to one of the chairs in front of the lights and camera.

When the quiet bridge game in a corner of the lounge suddenly finds itself bathed in many candlepower of bright lights and a voice out of the dark surrounding yells, "Don't look at the camera," anyone should find it difficult not to be aware that something new is going on around campus.

Almost all the interior shots have been completed and the exterior scenes are scheduled to be in progress this week. It will require about two weeks to complete the remaining shots, and a third week should give time for any necessary retakes. Then starts the job of editing this color footage and preparing the narration and sound track.

The narrator will possibly be a senior or graduate student. One important indoor shot not yet filmed is the scene of a student dance. The larger ASCIT affair later in the term is being considered for this part. Anyone who has films of student affairs is again asked to inform the Engineering and Science office in 400 Throop. Scenes of the Ski Club in action are especially needed.

Capra Is Adviser
The movie is being produced by the American Releasing Corp., a commercial film company from Los Angeles. Tech's famous alumnus, Frank Capra, has been helping in an advisory capacity during the planning stages of the film, and he will also be on hand to review the rushes of the movie, and to aid with the editing.

(Continued on Page 4)

Interview Schedule

- Positions Available to June Graduates**
- Brazilian Traction, Light & Power Co., Ltd., Canada—EE, CE, ME; for expansion of hydro-electric substation in Brazil and Toronto. Usual premium salary for overseas service plus pension plan. 4 mos. leave/3 years.
 - Electronic Engineering Co. of Calif., L.A. EE with electronics for design engineering and modification of various types of government electronic equipment.
 - McClellan Air Force Base (near Sacramento) Calif. ME, AE, EE for permanent status. Must take junior engineering examination.
 - Kimberly-Clark Corp., Neeah, Wisconsin. Jr. Design Engineers, ME, CE, CHE, EE. Salary range: \$275-\$325 per mo.
 - The Trane Co., LaCrosse, Wisconsin. CHE, preferably graduate degree, for Assistant to Department Manager. Work involves heat transfer. Applications obtainable in Placement Service.
 - The Kellogg Corporation, New Jersey and New York. Student Trainee Group, ME, EE, CE, CHE, MA, Ph. Transcript of record must be submitted together with completed application forms.
 - Magnolia Petroleum Co. (a Socony-Vacuum Co.) Dallas, Texas. Has openings for PhD/Ch in Petroleum Research.
 - U. S. Air Force. Aeronautical Chart and Information Service, Washington, D. C. Interested in receiving applications from engineers, geologists, mathematicians or graduates of the physical sciences to be trained as cartographers.
 - U. S. Geological Survey, Los Angeles, Calif. Water Resources Division. Openings for Jr. Engineers interested in the field of hydrology. Salary, \$3100-\$3825 per yr.
 - McDonnell Aircraft Corp., St. Louis, Mo. Interested in engineers whose homes are located in Arkansas, Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Mo., Minnesota, Nebraska, North and South Dakota, Ohio, Oklahoma, Tennessee, and Wisconsin. Please leave your name and address in the Placement Office, if interested and a Senior or a graduate student.
 - The Bureau of Reclamation (U.S. Civil Service Commission), Denver, Colorado. Applications will be accepted from all branches of engineering, but immediate need for civils and electricals. No written test. Salary: \$3100-\$3825 per year. Openings in various localities, seventeen western states. Applications obtainable in Placement Service.
 - United States Naval Academy, Annapolis, Maryland. Faculty positions on staff of the Dept. of Marine Eng. for the Academic Year 1951-52. employment to commence about 1 July. Particularly desire candidates who have completed work in fluid mechanics, thermodynamics, engineering materials for assistant professorships. MS degree required. Application blanks available.

(Continued on Page 4)

Dollars or Hardships?

Prices have been going up. There is no way of getting around this fact, and as a result an ultimatum from the Institute recently announced that either rates in the student houses would have to be raised, or else service would have to be cut. Three proposals were placed before the students living in the houses, and the men were given an opportunity to vote on them as alternatives for the future of student house finances.

Investigation Demanded

These proposals were: 1) A flat ten per cent increase in rates; 2) A five per cent increase in rates and elimination of bed-making service, which has differentiated the Caltech student houses from other college dorms; and 3) No increase in rates and an elimination of waiter service and bedmaking service. One of the houses even refused to vote until it made a detailed Senate-like investigation of the efficiency of the house management.

Unequal Savings

Yet the savings which would be instituted by each of these proposals were in no way equivalent to each other. Elimination of waiter service in the houses would eliminate only a few hundred dollars a term instead of a few thousand, for half the waiters would still have to be employed as bus boys, and even if all were eliminated nowhere near five per cent of the total student house expenditures.

Waiter's Wages Reduced

Already the waiters have had their daily wages reduced from \$1.86 to \$1.20 as an economy move, present plans still call for the elimination of one waiter in each house, a move which will slow down meal service considerably. This cut in numbers will just about make up for the loss of revenue caused by the departure of students at the end of the second term.

Houses Self-Sufficient

This last event has made the problem of student house economy even more serious, since it is an Institute policy that the student houses shall be run strictly on income from students' fees and not on money from the Institute endowment, like many other Institute activities.

Perhaps the ruling of the Board of Trustees, which is already on the books, that all students at the Institute are required to live in the houses unless with the Deans' permission, will be used to make local students help supply some of this deficit. In order to put off such action as long as possible, Mr. Tanhan has requested that all off-campus students interested in living in the houses should see him immediately. A detailed presentation of house expenses was given in the *Tech* last term.

The important thing to remember is that we as students have nothing to do with economic conditions of this country as a whole. We can complain about anything, but we still must face the facts—that house rates must go up or service must be cut.

Gad!

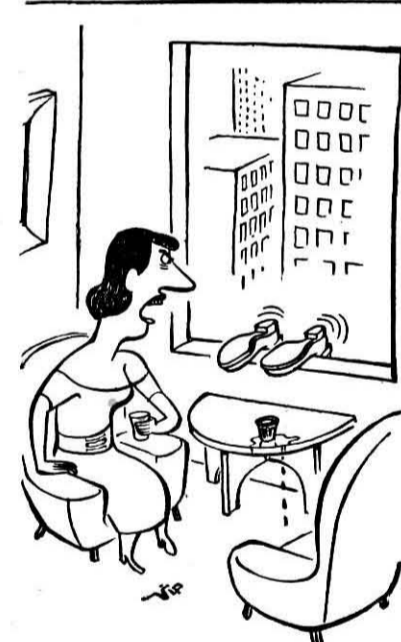
"I heard you call her your little billiard ball the other day."

"Yes, when you apply the right English, she has a wicked wiggle on the cushions."

Egad!

Cop to lady seen running through park: "Having trouble, lady?"

"No, I'm just being chaste."



"Oh, stop your sulking - I'll put more Angostura* in your Old Fashioned."

ANGOSTURA

AROMATIC BITTERS
MAKES BETTER DRINKS

*P.S. You know how Angostura enhances the bouquet of drinks - but have you tried a few dashes to spark a salad dressing? Unforgettable!

JEWELER

American and Swiss Watches

Watch, Clock and Jewelry Repairing

Selection of Jewelry

BINLEY'S

JEWELRY STORE

885 E. Colorado St.
SY. 3-1853

WHEN YOU ARE HUNGRY
WHEN YOU ARE THIRSTY

OR
WHEN YOU JUST
NEED RELAXATION

IT'S THE

SKIP INN

Beer - Plate Lunches

1352 E. WALNUT
Open Till 2 A.M.

THE SQUARES' CIRCLE

The word has probably been pretty thoroughly spread around by now, but in case any of you didn't know, there were a lot of gripes directed toward Blacker's exchange last Friday night.

Apparently the four newly positioned social chairmen of the houses got together and decided that a house exchange was for members of the house alone. There is a provision for other house members to join the fracas if . . . they ask permission in advance of the social chairman.

Questioning one of the social chairmen revealed some reasons for this action. Exchanges are not held for the house . . . they are held for the benefit of those house members who do not normally date or lead a very active social life. In other words, they are not for the benefit of make-out artists and such; i.e., keep out members of other houses to reduce competition AND keep control of the approximate ratio of boys to girls. A house sign-up list can take care of this ratio control within the house but has no control over immigrants from other houses if they are allowed to operate without restraint.

Now a few words to represent those who were put out, both literally and figuratively, at and about this new exchange ruling at the Blacker exchange last Friday.

The feeling is, in general, that

(Continued on Page 4)



New Beak

This is Caltech's most sensational unsyndicated uncopyrighted column. This, being the first column of the first Brewins of a new regime, your 1951 Beak feels it is only proper to explain the rules of the game.

RULES

1. I will print items of scandal about anybody from a sexy prexy to a prostrate frosh.
2. I will enjoy canons of good taste which are all my own.
3. I will exhibit a refreshing variety of subjects. In addition to maknig merry we will be concerned with the college and House administration.
4. A man's private life is everyone's business. New policy . . .

I won't take your name in vain,
If you keep it on a higher plane.

5. I will print the facts as I see them and hope that too many libel suits don't result.

Armed Too

6. In conclusion, victims of

this column are hereby warned that the writer of this column at all times carries a .45 pistol, which he is prepared to put into play at a moment's notice.

Blacker Bunched

Blacker's revamped social politburo teed off for the term with an exchange with Oxy and the Pasadena Playhouse. True to rules of thumb, the Playhouse promised 15, and delivered none, while Oxy promised 35. However, Orr Hall resembled Union Station at commuter time. It was a crowded exchange.

Phleming, who believed in quality rather than in quantity, wound up with 10 girls and several checkered tablecloths for

California Tech

Published every Thursday during the college year except during examinations and holiday periods.

California Institute of Technology
1201 East California Street, Pasadena, Cal.
Subscription rates: \$1.50 per year.
Entered as second-class matter Nov. 22, 1947, at the Post Office in Pasadena, California, under the Act of March 3, 1879.
Offices: Lower Fleming

EDITORIAL STAFF

Managing Editor.....Budd LeTourneau
News Editor.....Mike Mecherikoff
Sports Editor.....Nick Nicholson
Feature Editor.....Duane Marshall
Copy Editor.....Paul Helfrey
News Staff.....Tony Malanowski, Al Jackson, Jim Crosby, Don Tierney, Walt Eager, Jay McKinney, Gene Kaiser, Chuck Sargent, Ray Stannard
Sports Staff.....Pete Mason, Thorne Butler, Sam Vodopia, Jesse Weil, Roger Baier, Dave Koons
Copy Staff.....Ron Ratney, Jim Wilson, Tom Connolly, John Lloyd
Special Writers.....Bob Cobb, Bill Whitney, George Abell, John Rogers, Bob Kurland, Al Lewis, Ulrich Merten
Photographers.....Ed Bryan, Bob Spencer

BUSINESS STAFF

Business Manager.....Charlie Steese
Circulation Manager.....Dick White

FACULTY ADVISER

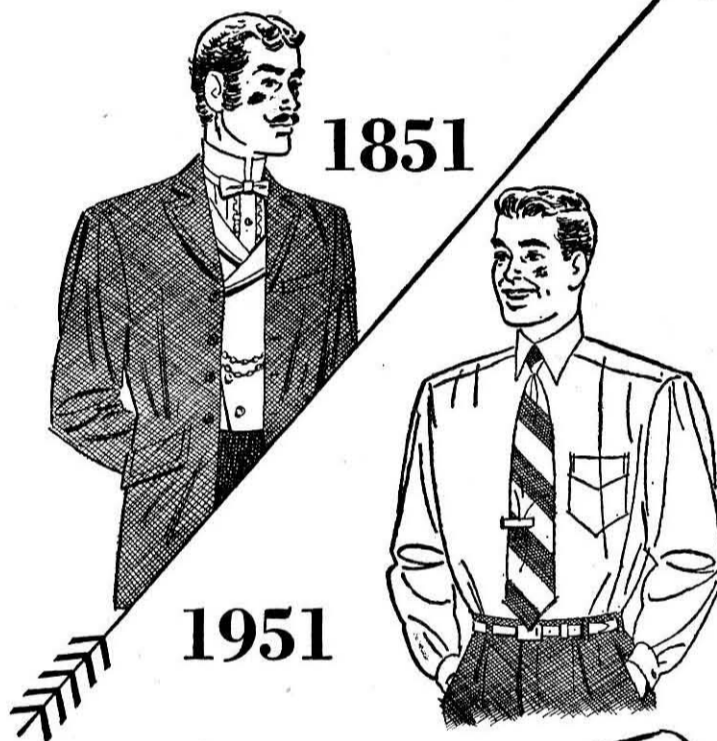
Prof. G. R. MacMinn

the evening's entertainment . . . (also Oxy.) At which point Fleming moved their exchange, and George Moore to Blacker, taking such social die-hards as Drabney's Laff, Weil, and Chalmers
(Continued on Page 4)



459 East Colorado, Pasadena

Starting April 9th . . .
NATIONAL ARROW WEEK
celebrating Arrow's 100 Years
of style leadership



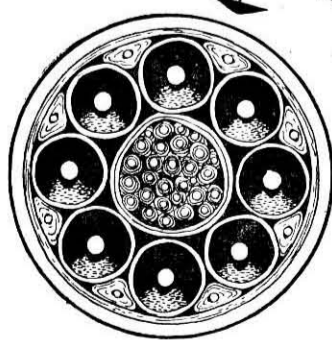
JUNGLE OVER GEORGETOWN



IF all the telephone voices
That ride together in one coaxial cable
Traveled as they once did
Over pairs of open wire,
The sky above Georgetown University,
In Washington, D. C.,
And over all the other points
Along our extensive coaxial network,
Would be a jungle of poles and wires.

Coaxial cable—no thicker than a man's wrist—
Can carry 1800 telephone conversations
Or six television programs
At the same time.

This cable is the product of
Years of continuous research and development—
And another example of the way we work,
Day in and day out, to make the telephone
An important and useful part of your life.



In the old days, it would have taken a pole line over 700 feet high to carry all the conversations that can go through a 2 1/2-inch coaxial cable.



BELL TELEPHONE SYSTEM

CAmpus life has certainly changed these past 100 years. Back in 1851 there were only 160 colleges in the entire country. Today, there are 1,849. No Rose Bowl game at the end of the football season in those days. No football season as a matter of fact. Open surreys were standard equipment of college Romeos—there wasn't a cream-colored convertible on the landscape. It was then, a century ago, that Arrow started manufacturing their famous collars . . . and in a few years they were setting campus styles. That's one thing that hasn't changed. Arrow is still style leader on America's campuses. College men everywhere know that the Arrow label always stands for smart styles, fine fabrics, meticulous tailoring . . . the superior quality that reflects good taste.

See your Arrow dealer's
fine new Spring selections
during National Arrow Week!



ARROW SHIRTS & TIES

UNDERWEAR • HANKERCHIEFS • SPORTS SHIRTS

1851-1951

Tankmen Top Pomona 51-24; Redlands Up

If you want to see a good swim meet, come to the PCC pool tomorrow afternoon at 4:30 p.m. The Bulldog tankers of Redlands will be the guests of the Engineers. Thus far Redlands has defeated both Pomona and Whittier, although they have lost to Oxy, so a close meet is anticipated.

Six Firsts

Last Friday the Tech swim team journeyed to Pomona, and left the Sagehens in a sad condition because of a 51-24 final score. Again the Beavers clearly showed their superiority by taking six of the nine first places, including both relays.

Double Winner

Dick von Herzen was the only double winner of the afternoon, coming in first in the 220 and 100 and taking part in the winning free style relay. This also made him high point man. Libbey did almost as well, taking first in the 50, second in the 100, and also swimming the relay.

Caltech Race

In both the 220 and 100 it was strictly a Caltech race. Houser matched strokes with von Herzen until the final lap of the full-length, when Dick pulled ahead by a foot or so to win. Libbey and von Herzen did the same in the 100.

Because Pomona's backstroker, who took second in last spring's Conference meet, is not competing this year, Weil was able to win this event easily. This year, the poor backstrokers have to swim 200 instead of 150 yards as a result of an NCAA ruling. All the varsity breaststrokers were put to shame by a Pomona frosh, who turned in a time six seconds faster than the varsity time.

(Continued on Page 4)



Busy Netmen Oxy Runners Drop Match Visit Sat.

Tennis activities for this week include the beginning of the Scott Tournament, a match with Loyola, and a match with Redlands, all played here at Tech. The Loyola match will be played Wednesday at 3:30 p.m., and Redlands will meet us Saturday at 1:30 p.m.

Two Wins

Caltech managed only two wins from Pomona last Friday, third singles and first doubles. The brutal trouncing came out as follows:

Singles—
 Jose Cortes (P) d. Jack Martin (C) 7-5, 6-0.
 Julian Nava (P) d. Palmer Smith (C) 6-4, 6-4.
 Rodger Baier (C) d. Charles Biddle (P) 6-3, 6-4.
 Desseau Clarkson (P) d. Burke Welch (C) 6-1, 6-4.
 Pete Linticum (P) d. Jim LaFleur (C) 6-1, 6-2.
 Dudley Gray (P) d. Marv Hyman (C) 6-3, 6-2.
Doubles—
 Martin-Smith (C) d. Cortes-Biddle (P) 10-9, 10-8.
 Nava-Hatch (P) d. Baier-Welch (C) 6-0, 6-0.
 Gray-Linticum (P) d. Emery-Ireland (C) 6-1, 6-3.

Troubles

The Beavers are showing a not too rapid recovery from the pleasures of Easter Vacation. Rodger Baier is especially experiencing this, with a knee he managed to twist. He seems to perform this operation at least once a year, to furnish himself with ample excuses.

The Martin-Smith doubles combination is continuing their skillful teamwork, and the players deserve a great deal of credit for their victory over Pomona. A great amount of needed practice was obtained by the team as a whole in the practice

Muir showed its strength in track last Friday afternoon by capturing eight firsts in a three way meet with Caltech and El Camino J. C. Tech showed the results of the two weeks layoff. Times were poor in general sparked by a few notable improvements in the field events. Final score was Muir 72%, Tech 61, El Camino 28%.

Field Events

Highlights for Tech were in three field events. Neil Stefanides showed that he has the stuff to replace John Noble in the javelin by tossing the stick 157. ft. 4 3/4 in., while Sam Middlebrook was right behind with 155 ft. 9 3/4 in.

Bob Waid high jumped 5 ft. 10 in. for his best yet, and a first place. Bob also got seconds in the low and high hurdles and the broad jump for high score of 14 points.

Improves

In the discus Ray Heacock again set a new personal record (Continued on Page 4)

match with Santa Barbara. The final outcome was 6-3.

Fly Boys

All of the men felt that they had had a thorough workout, and that they should be in trim for next week's matches. Baier, Emery, and Pilot La Fleur are still enthusiastic about the enjoyable plane ride they had to the match. Their only complaint was the noise, but they decided there was no use going to a tennis match without a racket.

Oxy Takes Measure Of Beavers, 12-5

Diamondmen Down Muir, Meet Redlands Next; Errors Rife

The Beaver baseballers lost their second league game to Oxy last Saturday by a score of 12-5. The Tech team felt the loss of Stallkamp (because of a head injury) very badly. Looking good at times, the nine went to pieces in spots, making eight errors.

Loss Felt

The Beavers also felt the loss in batting power and in spirit. Norm Gray pitched good ball for seven innings but he was not helped too much and allowed seven runs. Winslow pitched for the rest of the game. He allowed five runs; most of these were due to errors.

Big Hit

Karasawa tripled in the second inning with men on second and third to score two runs. In the third inning Tech got two more runs on hits by Snider and Pfeiffer and a bad throw by the Oxy left fielder. The other run came in the sixth on hits by Pfeiffer, Johnson and Smith.

Wednesday, March 28, the Beavers beat Muir in a practice game. Winslow pitched the whole six inning. Next conference game comes up Saturday, April 7, when Caltech plays Redlands here.

Other leading scorers for the Beaverbabes were Kirkpatrick with eight points and Cramer, who bagged 10 points.

Pomona Wins

Friday also saw two Tech teams visiting the Pomona campus. The swimming team lost by a score of 49 to 19, and the tennis squad was set down nine to zero.

On March 10 the tennis squad defeated Whittier 6-3 on the Tech courts.

Out of It

Saturday afternoon the baseball team lost to Oxy 30 to 4. Tech hero for the day was Pechacek, who batted in three runs.

The baseball score brings to mind a critical situation; there

are but twelve men out for the team, many inexperienced. This lack of strength was apparent in the wild game last Saturday.

The coach will more than welcome any new candidates, experienced or not. Come on out and sign up.

Caltech—		022	001	000	5
Runs	.....	022	003	000	7
Hits	.....	000	313	005	12
		000	314	002	10
		AB	R	H	PO
Karasawa, ss	.....	4	0	1	5
Wise, cf	.....	5	0	1	0
Snider, lf	.....	3	1	3	0
Koons, lb	.....	3	0	10	0
Neverman, rf	.....	3	1	0	1
Pfeiffer, c	.....	2	2	5	0
Johnson, r, 2b	.....	4	1	2	1
Kier, 3b	.....	1	0	0	1
Gray, p	.....	2	0	0	1
Munro, pb	.....	1	0	0	0
Smith, pb	.....	1	0	0	0
Stern, 2b	.....	1	0	0	0
Winslow, p	.....	1	0	0	0
		1	0	0	1

Munro batted for Kier in sixth.
 Smith batted for Gray in sixth.

We Highly Recommend
Carl's Caltech Barbers
 On California St.
 Near Lake

PASADENA BOWLING COURTS
 970 East Colorado
 Headquarters of Caltech Bowlers
 Open 11 a.m. to 1 a.m. SY. 3-1341
 Special Student Rate before 6 P.M.
 except Saturday, Sunday, and Holidays
 20c Per Line

YOUR COLLEGE RECORD SHOP
 Headquarters for the best selections in
RECORDS - RADIOS TELEVISION
L. C. TAYLOR CO.
 145 N. Lake Sy. 2-5107
 Open Evenings

Your Nearest Camera Shop
ALVIN'S PHOTO SHOP
 Everything for the Photographer
PERSONALIZED PHOTO FINISHING
 914 East California

ARROW 1851-1951

We are celebrating **NATIONAL ARROW WEEK**

With big selections! Brand-new styles! Starts April 1st... come in!

ARROW SHIRTS\$3.95 up
 ARROW TIES\$1 up
 ARROW SPORTS SHIRTS\$3.95 up
 ARROW HANDKERCHIEFS35¢ up
 ARROW SHORTS\$1.45 up
 ARROW ATHLETIC SHIRTS\$1 up
 ARROW T-SHIRTS\$1.25 up

HOTALING'S
 921 EAST COLORADO ST.
 Free Parking Rear of Store
 FOR ARROW UNIVERSITY STYLES

The gals who knit for Dartmouth men For Yale and Harvard, too. All give their votes to Lucky Strike. They like it best—don't you?
 Libby Kaye
 Smith College

Be Happy-Go Lucky!

LUCKIES TASTE BETTER THAN ANY OTHER CIGARETTE!

Fine tobacco—and only fine tobacco—can give you the perfect mildness and rich taste that make a cigarette completely enjoyable. And Lucky Strike means fine tobacco. So if you're not happy with your present brand (and a 38-city survey shows that millions are not), switch to Luckies. You'll find that Luckies taste better than any other cigarette. Be Happy—Go Lucky today!

LS./M.F.T. - Lucky Strike Means Fine Tobacco

We call a snappy college Joe A real B.M.O.C. And when we call for cigarettes, it's LS./M.F.T.
 Nancy Fowler
 Ohio University

In engine lab the other day We ran a crucial test; Of all the smokes, when taking breaks, We voted Luckies best.
 Bob Young
 Oregon State College

INTERVIEW SCHEDULE

(Continued from Page 1)

Summer Opportunities
Corps of Engineers, U.S. Army, Anchorage, Alaska, Students Aid Employment Program for the 1951 construction season. Positions will be open to engineering majors who have completed two or three years study. Work will include drafting, surveying, computing, preparing engineering reports, laboratory testing, and inspection of construction. Note: Apply at once. Placement Office, as applications should be air mailed. Childcraft, Field Enterprises, Inc., Chicago, Ill. (want "live-wire"). Sales position. "ROC Summer Program"—6 weeks duration. Curriculum to consist of courses in Naval Science. Open to freshmen, sophomores and juniors. California Navy Laboratories. Mainly interested in Ph, Ma, and engineers although some openings exist in Ch and radiological biology. Navy labs are located as follows: U.S. Naval Ordnance Test Station, Inyokern, China Lake, California. U.S. Naval Ordnance Test Station, Pasadena, California. U.S. Naval Air Missile Test Center, Pt. Mugu, California. U.S. Navy Electronics Laboratory, San Diego, California. U.S. Naval Civil Engineering Research and Evaluation Laboratory, Port Huene, California. U.S. Naval Radiological Defense Laboratory, San Francisco, California. Interviews for these laboratories for summer work will be held on campus Friday, 13 April. Group meeting with sound film, Thursday, 12 April, 4:00 p.m., 155 Arms. Bureau of Aeronautics (Department of the Navy) offers a summer work program in aircraft research, test and development, experimental and overhaul programs in various Civil Service Regions all over the country. Cornell Aeronautical Laboratory, Inc. (affiliated with Cornell University) Buffalo, New York. Opportunities for Aeronautical Engineers, Aerodynamicists, Physicists, Mathematicians, Electrical and Mechanical Engineers. This is a program offered to graduate students. Applications in the Placement Office. Linde Air Products, Jr./ME, CE, ChE. Mfg. of liquid oxygen. Los Angeles and other cities throughout country. The following firms are also interested in applicants for summer positions. Los Alamos, New Mexico Union Oil Company General Motors Calif. Personnel Board, Jr. Mechanical Engr. Calif. Bureau Public Roads, Highway Engineer Trainee

Pre-Interview Survey
Weyerhaeuser Timber Co., Longview, Wash. Interested in employing graduates with degrees in Engineering, Physics, ACh, Ch; design, production, development, process engineering. California Texas Oil Co., Ltd., New York, ME, Ch, CE; for design, construction, maintenance, and operation of petroleum refining equipment. Caltech operations have expanded to nearly all countries of the world. Army Ordnance, Pasadena, Ph, ME, ChE, EE—for employment at Frankford Arsenal, Phila., Pa. Bendix Pacific Division, Bendix Aviation Corp., North Hollywood, Calif. Interested ME's and EE's (electronics) who are mechanically minded and well grounded in academic drafting and engineering who will begin their careers as detail draftsmen. Salary range: \$360-\$400 plus a "cost of living" bonus. National Supply Co., Torrance, Calif. ME's for design of oil field equipment. Chicago Bridge & Iron Co., Los Angeles, Calif. CE's for structural design and heating and ventilating for company

Serving you with a smile
Van de Kamps NEW COFFEE SHOP
COLORADO AT BONNIE

OAK KNOLL Cleaners and Laundry ONE DAY Cleaning Service AT REQUEST NO EXTRA CHARGE FOUR-DAY LAUNDRY 902 East California Street (4 Doors East of Lake) SY. 3-6704 Next Door to Caltech Barber Shop

OXY RUNNERS

(Continued from Page 3)

of 127 ft. 7 in., getting mighty close to the best efforts of the team last year. The only other first places were picked up by Pete Mason in the mile and two mile, both in slow times.

Sprinter

Other outstanding marks were made by Muir's Henry Warner, who hit 10.1 in the hundred and 22.5 in the 220. Crary of Muir was another double winner, hitting the low hurdles in 25.4 and the highs in 15.7.

El Camino took the relay by the grace of a bad Tech pass. Al Johnston almost nipped their anchor man, but had lost at least three yards on the pass.

Saturday Tech's track team is host to an Oxy team that came close to upsetting the championship SC team.

whose business is fabrication and erection of steel structures. Men to work through departments, beginning in Salt Lake City and then to jobs somewhere in the country. Factory Mutual Engineering Division, Boston, Mass. Engineers for fire prevention engr. Work consists of rendering consulting service on fire prevention to major industrial properties. Assignment will be to one of their nine district offices: Charlotte, Chicago, Cleveland, New York, Philadelphia, St. Louis, San Francisco, Boston, or Toronto. University of Southern California. Needs several engineers for the new aerodynamics and propulsion lab. to be operated by them at the U. S. Naval Air Missile Test Center, Point Mugu, Calif. Work may be entirely at Pt. Mugu, or alternating between Pt. Mugu and the U.S.C. campus. Need MS/Ae. Aerodynamics Test Engineers, MS/Ae. Propulsion Test Engineers, and MS/Ae. for stability and control. Reynolds Metals Co., Richmond, Virginia. Interested in ME's who would like to live in Phoenix, Arizona. This is an aluminum extrusion plant. They desire mature individuals who are capable of relatively rapid assumption of responsibility in plant supervision.

EGAD!

I tried to kiss her by the mill One lovely starry night; She shook her head, And sweetly said, "Not by a dam site."

CAMPUS BARBER SHOP In Old Dorm Also Agent for LAUNDRY & DRY CLEANING

TANKMEN TOP POMONA

(Continued from Page 3)

Same Score

Muir came back a second time Tuesday to try their luck and were defeated by the same score as before finals, 47-28. The meet was held at PCC. The Engineers picked up points in the diving, 220, and 440, while losing some in the medley relay.

Relay Close

The only excitement came in the 220 and 400 yd. relay. Von Herzen almost beat Kroesche of Muir in the 220, but was nosed out after swimming neck and neck with him for the whole race.

In the relay, Libbey, as anchor man, had to make up a couple of body lengths so that Tech could win. He did it with a breath-taking kick at the finish, doing the hundred in the remarkable early-season time of 57.6 seconds.

Results:

Caltech-Pomona MEDLEY RELAY: Caltech (Weil, Connor, Haire). 3m. 36.4s. 220: Von Herzen (CT), 2m. 38.1s. 50: Libbey (CT), 26.1s. Diving: Yeager (P), 100: Von Herzen (CT)... 59.3s. 200 Backstroke: Weil (CT), 2m. 53.5s. 200 Breaststroke: Malone (P), 2m. 53.3s. 440: Nelson (P), 5m. 58.3s. 400 Relay: Caltech (Haire, Von Herzen, Houser, Libbey), 4m. 8.3s. FINAL SCORE: Caltech, 51; Pomona, 24.

NEW MOVIE

(Continued from Page 1)

Mr. Capra has won fame from such outstanding movies as "Lost Horizon" and "Mr. Smith Goes to Washington" and is presently working on the latest Bing Crosby production.

The finished product should be from 20 to 30 minutes of color film. The movie is scheduled for completion and release for use in high schools early this fall.

MYRILLA A. RATHMELL Instructor Bates Method of Eye Training Better Eyesight Without Glasses Special attention given to men going into the service. Call SY. 3-4384

CAMPUS BREWINS

(Continued from Page 2)

While the Cat's Away . . .

Wilkes asked Pilkington's girl for a date and got it. However, Marshall tried to keep wolves from the door until roommate Pilkington returned from Oakland. He succeeded so admirably that he took her baby sitting with him the next night. Pilkington, at last reports, knows naught of the whole affair.

Davies, old, tired, and practically engaged, was observed practicing judo on a fine young education (what else) major. Her name was Saint, and the story will stop HERE.

G. P. A. Ego

Eihwagner, Gehrels, and Koster, crazed by high grade point averages of last term, operated wildly, but never got around to the No. 1 ratrace of the evening.

This event starred Karzas, Scott Lynn and Oglevie, vs. Doty. As it turned out, Ogle got the date for this week end, Lynn took her home (for the first and last time, according to Oxy), and Karzas went back to the Athenaeum.

Say No More

Ricketts, like Polk, was out of it. However, Sexy Prexy Hanna made it over to the Blacker exchange, too. A blonde in pink interested him and he cut in on her, eventually informing her that they should get together sometime. Blondie said no, she didn't want to start something

she'd have to break off. Hanna assured her that he didn't have marriage in mind, whereupon she looked shocked and said no more . . . Like my ma used to say to sis, "Girl's gotta be careful nowadays."

Ball and . . .

We managed to make it down to the Calvary Church in S. Pas. last Weds. nite for the social event of the week: Peck's wedding to Sue. Whitney, Greutert, Libbey, Cobb, Pardee and Reed ushered, while Peck's M.I.T. brother was best man. Rose Queen of a few years back, Virginia Goodhue, cut cake, and the place abounded with beautiful women.

Too Bad

Gee, Kliegel, and Marion picked over the various females and decided on date material, only to find that the three were married.

Peck's plan of escape from church was truly worthy of mention. While brother John took out from the alley behind the church in a decoy car, appropriately marked, Peck left by the front door in a car with friends, roared around the block three times and pulled into a parking lot where he switched cars, and dragged out through a narrow street to honeymoon in Carmel, while brother John parked across the alley, blocking it.

THE SQUARES CIRCLE

(Continued from Page 2)

too much antagonism is raised . . . too many bitter feelings are made. To enforce the rule the social chairmen and their committees must work against custom and establish precedent at the expense of hospitality and friendly feelings between the houses.

I believe that the loss of free exchanges means the loss of a lot of interhouse friendship, and that the value gained is not worth the bitterness raised.

The exchanges should be free to the extent that an out-of-house student should be able to ask permission of the chairman, AT the dance, to join the party.

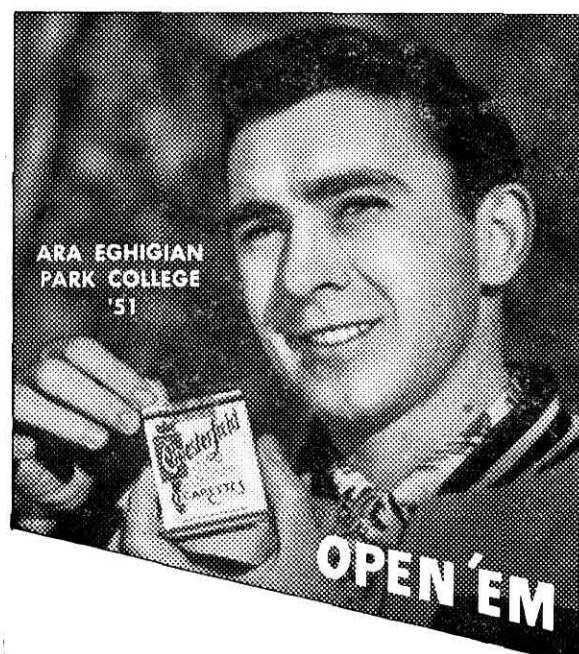
Another issue for student house men is the fact that four fellows have made a ruling that will affect a lot of other guys. Have they the right to change the social customs of the houses without due consideration and vote by all the members of the houses? I suggest a vote be taken on the subject at following house meetings.

How about some response to this question in Letters to the Editors and bull sessions in the house?

—Duane Marshall.

Dino's NEAREST THING TO SAN FRANCISCAN ITALIAN FOOD AT ITS BEST! open daily 4:30 p. m. to 1 a. m. Fri-Sat. 3 a.m. Sun. 1 p.m. to 1 a.m. 2055 East Colorado SYcamore 2-0657 PIZZA - ANTIPASTO - RAVIOLI Take Some Home!!

LIKE THOUSANDS OF AMERICA'S STUDENTS— MAKE THIS MILDNESS TEST YOURSELF AND GET WHAT EVERY SMOKER WANTS



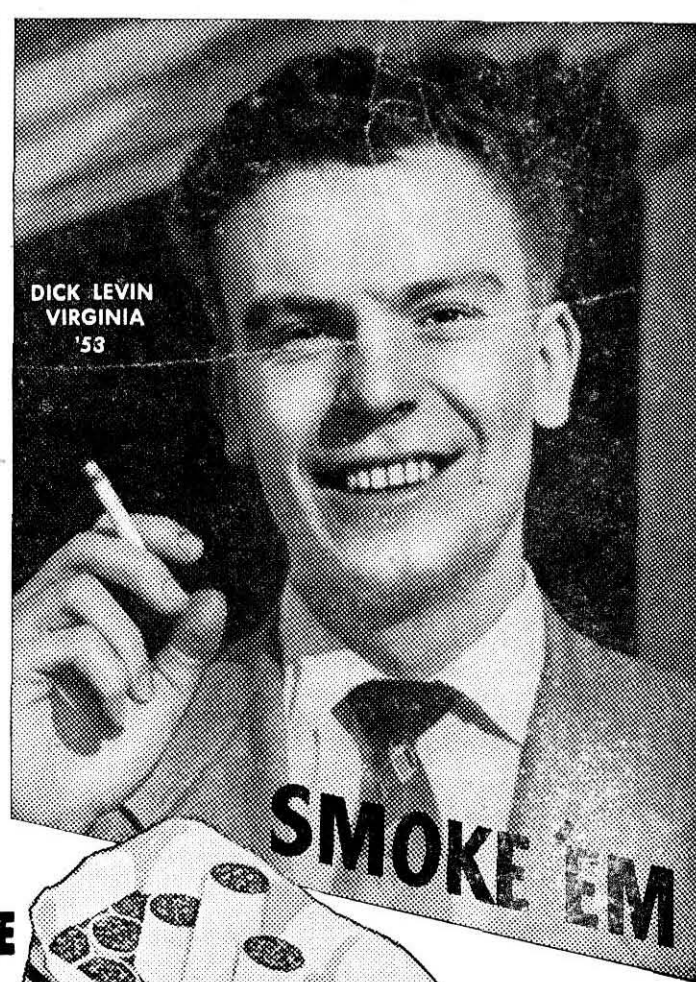
ARA EGHIGIAN PARK COLLEGE '51

OPEN 'EM



HERTA GAUCK U. of CAL. at BERKELEY '53

SMELL 'EM



DICK LEVIN VIRGINIA '53

SMOKE 'EM

MILDNESS

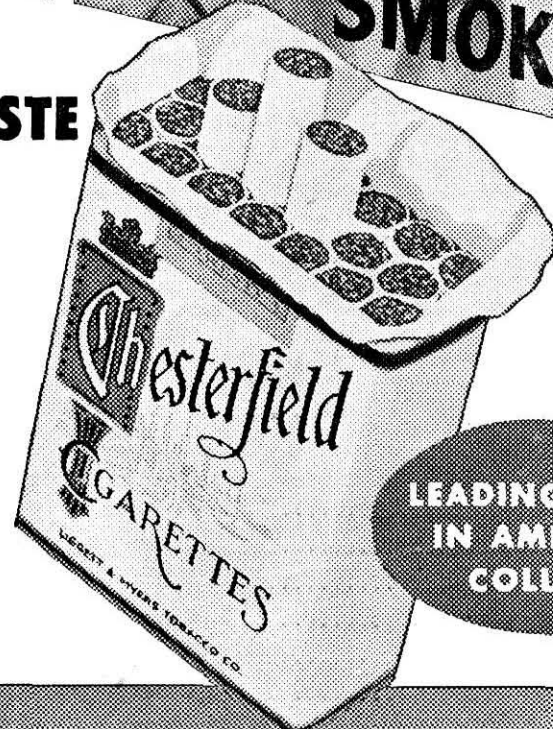
Plus NO UNPLEASANT AFTER-TASTE

OVER 1500 PROMINENT TOBACCO GROWERS SAY:

"When I apply the standard tobacco growers' test to cigarettes I find Chesterfield is the one that smells milder and smokes milder."

A WELL-KNOWN INDUSTRIAL RESEARCH ORGANIZATION REPORTS:

"Chesterfield is the only cigarette in which members of our taste panel found no unpleasant after-taste."



LEADING SELLER IN AMERICA'S COLLEGES

ALWAYS BUY CHESTERFIELD