

Kirk elected Frosh prexy

Recording of Pauling skit reveals dramatic talent

By John Young

Who said, "Professors are stuffy"? The originator of the idea may be long gone, but for anyone who still holds that opinion, the release last week of "The Road to Stockholm" makes available to the public one of the more startling refutations. "The Road," subtitled "The Appalling Life of Dr. Pauling," was written and presented for the banquet which was held last December in honor of Dr. Pauling's Nobel Award. A recording of the immortal work on a ten inch LP is now on sale in the Bookstore.

The skit, which was produced by Tech faculty members, is a cute and, in places, witty little operetta. The position of Gilbert and Sullivan in entertainment history is in no way endangered, to be sure, but to us this little work contains less "amateurish corn" than the run of the mill playlet thrown together for a special occasion.

The plot—a radio broadcast (with singing commercials) from station KCIT, sponsored by Caltech—ties together a series of imaginary episodes in the life of a great scientist. The opening commercial is a rather long series of eulogies to chemistry, highlighted by the gravel-throated ballad singing of Dr. Kent Clark. The lyrics, which have been set to the music of familiar bar-room classics, roll out smoothly and actually make sense.

For us, the real artistic climax occurs when Dr. Ronald Sowden, a young chemistry Research Associate, soliloquizes in "The Research Student's Lament." His British voice and diction give him an amazing resemblance to John Gielgud's Hamlet.

The best lines in the whole show are at the beginning of his soliloquy, as he says in a deep

(Continued on Page 2)

Snow Valley to host frosh

Caltech frosh will hold their first social event of the year this Saturday, January 22, when they journey to Snow Valley. The snow party will be held at the snow hut of the Caltech Ski Club.

Nine o'clock Saturday morning the freshment will leave from the Student Houses and will arrive at the Hut about noon. Frosh and their dates will ski and engage in winter activities throughout the afternoon. The party will start the trip back about five that evening.

Each couple is expected to take their own food, but food can also be purchased at Snow Valley. Winter sports equipment can also be rented there. Transportation will be arranged, as much as possible, for those without rides. Facilities are, however, limited.

Arrangements for the trip have been handled by freshman social chairmen, Richard Baron and Dick Ashby, who promise a full day and a good time at Snow Valley.

Additional cars are needed. Those going who have cars should contact the social chairmen.

Tech jackets coming soon

An official "student body jacket," which any Caltech undergraduate will be eligible to wear, was approved last week by the ASCIT Board. The jacket will serve to identify the wearer as a Techman, and will be a symbol of Associated Student Body membership.

The style of the jackets will be very similar to the present second year varsity athletic awards, with a script Caltech on front. The color chosen by the Board is a light gray flannel with orange beading and tan leather pocket edging.

Following Fad

The idea of a student body jacket is generally popular among West Coast colleges, and the Tech jacket will follow closely the pattern set by other ICC schools.

The cost to the student should be about \$12.00. Further arrangements for ordering the jackets will be made next week, and ordering places will be designated.

Rocket film at ASME meet

The American Society of Mechanical Engineers will hold an open house meeting next Wednesday night at 7:30 p.m. in 206 Dabney. The subject will be rockets and guided missiles.

Top engineers from North American Aviation Company will talk on the amazing developments and problems yet to be conquered in the rocket propulsion and guided missile field. Color films showing rockets in action will be featured on the program.

Rally Commission proposes big variety show for this term

"Old Faces of 1955," a variety show intended to compete with a current . . . Broadway production of similar name, is the latest project of the ASCIT Board of Directors. As planned now, under the supervision of Jon Harford, Rally Commissioner, the show will consist of a number of separate vaudeville-type acts, and will be presented late this term.

The projected variety show not attempt to emulate a musical comedy, with plot and love interest, but will run entirely along the lines of an old-time vaudeville program, somewhat in the manner of "New Faces."

A fervent plea is being sent out by the ASCIT Board for a master of ceremonies to direct the show, and for the acts which will constitute it. Techmen who feel themselves in any way or manner talented, clever, or energetic, should contact Harford as soon as possible and begin to line up their acts.

Since the show by its nature requires very few major rehearsals, most of the rehearsal time will be put in by the separate acts on spare time. All kinds of acts will be considered: instrumental solos or ensembles, singers, comic or satiric skits, magicians, or what-have you. Other help will be needed in the direction of backstage work, direction, publicity and continuity.

Blood needed for Doctor Eagleson

Anyone wishing to donate blood to the Caltech Blood Bank to aid Dr. Harvey Eagleson, ailing humanities professor, should so inform Dr. Mayhew. Actual donations will be taken when the blood-mobile comes to campus in the spring.

Dr. Eagleson has been a patient at Huntington Memorial Hospital since Jan. 1. He is suffering from diverticulitis, a disease of the colon which promotes great internal bleeding.

Van Kirk, Martin and Blackie win; four incumbents return

Dick Kirk out polled Dave Leeson and Bob Smoak in the Frosh election last Thursday to retain his office as class president. The election was held to choose class officers who replace those appointed at Frosh Camp by the ASCIT Board of Directors. Incoming officers will keep their jobs until May 1 when elections will again be held. Failure of candidates to receive the required majority for election resulted in run-offs for the offices of vice president, secretary, and Board of Control members.

Japan comes to campus via AUFS guest

Dr. Willard A. Hanna of the American Universities Field Staff (AUFS) will arrive at Caltech next Monday, January 24, to report to the faculty and students on social, economic, and political conditions in Japan.

Military Bases

During his ten-day stay he will participate in classroom seminars and informal meetings with the students and will discuss "Problems Arising out of American Military Bases in Japan" at a Y.M.C.A. Graduate-Faculty Forum. He will also speak at a Los Angeles Town Hall meeting on "Japan as an Ally."

Wide Interest Range

Dr. Hanna, the second AUFS staff member to visit Caltech this year, has combined an interest in literature and writing with professional activities in the Far East—as teacher, naval officer, and public affairs officer. He has served in pre-war China, Okinawa, Indonesia, the Philippines, and Japan. His most recent post before joining the AUFS was Chief Public Affairs Officer in Japan.

Dr. Hanna will reside in the Manager's Suite in Ricketts, during his ten-day visit to Tech.

Two More Coming

Dr. James Maddox, the first AUFS man here this term, was an expert on South America. Dr. Hanna will be followed by Mr. Richard Nolte, an expert on the Middle East, and Professor Fred Warner Neal, who is studying the Yugoslav state under communism.

ASCIT election time is nearing

The time is coming for ASCIT elections. The nominations assembly will be held Thursday, February 10, at 11 a.m. in Culbertson. Nominations for uncontested offices will remain open for one week—until February 17. Election day will be Thursday, February 24.

ASCIT president Jim Adams urges that all students seriously consider running for one of the various offices.

Two sides of every question available in Doris Logan's Public Affairs room

By Al Helgesson

What's the deal? Who's posting this stuff about Latin America all over the place? Dragging my sliderule behind me, I ventured into the Public Affairs room in Dabney Hall. Articles on McCarthy in a technical school? Strange indeed.

Mrs. Doris Logan, who is in charge of the room, noticed my plight and walked over toward me. It was pretty obvious that I was a bad case, so she could see that explanation was what I needed. The articles and pictures on the walls are capsule summaries of current articles on controversial issues. The idea is that by presenting graphically the best available material on both sides of current topics, peo-

ple can form unprejudiced opinions.

I wondered if she were starting a paper drive with all the old papers and magazines lying around. At home we figure that two newspapers and four or five magazines are enough. Mrs. Logan explained that this is a collection of periodicals which she hopes represents a fair cross section of public opinion. The Public Affairs room subscribes to 21 newspapers, 81 periodicals, and the weekly bulletins from 65 embassies.

My German and French are a bit rusty, to say nothing of Russian; so I was a little bothered by the "foreign gibberish." She said that although the US furnishes the lion's share of the

publications, many others come from England, Germany, Switzerland, Red China, and Russia.

The Public Affairs room has grown out of the simple magazine reading room class, largely due to the help of a special fund supplied by the Carnegie Foundation. It was their hope that the money would help to stimulate knowledge in current political and social problems. Mrs. Logan goes a long way in fulfilling that aim in her logical arguments on both sides of issues. She has been accused, at times, of being on both sides of an argument. When this happens, she feels that she has come closer to her goal: to stay as close to the middle of the road as possible.

Friday lecture about turbines

"Pistons or Pinwheels?" is the title of this week's Friday evening demonstration lecture. Dr. Peter Kyropolous will discuss the application of gas turbines to vehicle propulsion and compare turbines with piston engines.

Slides, performance data, and a cutaway display assembly of a gas turbine, will be used to illustrate the demonstration, which will commence at 7:30 p.m. in 201 Bridge.

An associate professor of mechanical engineering, Dr. Kyropolous has been a member of the Caltech faculty since 1943. He received his B. S. degree from the University of Gottingen in Germany and his Ph. D. from Caltech in 1948.

Athletic manager, Clark Rees, (Continued on Page 3)

California Tech

Editors-in-Chief—Tom Bergeman and Lyman Fretwell

EDITORIAL STAFF

Reporters at Large—Gordon Reiter, Marty Tangora
News Editor—Dick Hundley

News Staff.....Dave Cantor, Jerry Crocker, Al Farley, Bill Hecht, Dick Kirk, Jim Mebust

Feature Editor . . . John Young

Feature Staff.....Jerry Fried, Jay Glasel, Howard Hilton, John Price, Bill Purves, Frank Kofsky, Stu Richert, John South, John Young

Sports Editor—Arne Kalm

Sports Staff.....Paul King, Don Lewis, Bob Walsh

Photographic Staff.....Stuart Bowen, Kim Cranney, Joe Lingerfelt, Tom Taussig

BUSINESS STAFF

Business Manager—Jim Lewis

Circulation Manager . . . Ed Park

Entered as second-class matter Nov. 22, 1947, at the Post Office in Pasadena, California, under the Act of March 3, 1879.

Scientific sidelights

"What's so great about science? What has science got to offer me?"

Often disenchanted Tech men have asked themselves these searching questions, after the original naive romances of science and glamor of Tech wore off, not replaced by a more mature, solidly established understanding of science as an opportunity for a life's work. Without some dream of the future and a fairly broad outlook in the area of major study, day-to-day detailed homework can disastrously lose appeal, and cease to be fun at all. In absorbing the classical facts and techniques, students often lose sight of the ultimate use of their knowledge—application to contemporary engineering and research. This is one of the basic problems in a technical education; Tech always has had to cope—or grope with it.

This problem of student interest can and is being attacked in several commendable ways. Last week one rather successful attempt took the form of a mathematics club meeting. A reorganized, revitalized math club met to ponder a problem in higher mathematics that wouldn't be required knowledge for any final exam, but yet did reveal an interesting application of abstract reasoning. Sixty people, half of them undergrads, attended and took to the club idea enough to organize and plan similar meetings in the future. The pattern is the long-successful geology club, which provides an entertaining bi-weekly lecture on advanced topics in geology of interest to both faculty and students, mainly upperclassmen.

The physics department also picked up the idea and Monday held a preliminary lecture meeting, a talk by a Tech grad on his outstanding research. Future plans, now a bit hazy, will give the undergrads a look at visiting "greats" and a glimpse into the world of physics today.

This is a great idea. And even if men have to be tricked into having fun in their fields by giving one unit credit for the club-meetings, as geology does, the clubs can add a lot to Tech. The problem of maintaining interest over greatly separated levels of knowledge seems to be solvable with careful guidance from leaders and speakers.

Any lack of enthusiasm at first should not deter the physics and math departments from continuing the venture, encouraging students to help to organize the affairs. Certainly the chemistry department and any others not now doing this sort of thing could well take heed.

Department clubs seem to us like a worthwhile addition to the campus, certainly warranting the active attention of Caltech men.

PAULING SKIT RECORDING

(Continued from Page 1) and intensely dramatic voice:

"I am an old man sitting disconsolate

In a lonely laboratory.

It is a cold night;

My Bunsen has gone out

And I have no more matches."

And later when he murmurs:

"We are in the Kingdom

of Hell

And we cannot escape

Until we are redeemed

By the presentation of a thesis."

From the morbid self-torture of the unfortunate grad student, the musical satirists turn to the love life of a chemist. Mrs. Elizabeth Lester, wife of a Biology Graduate Assistant, really puts her heart into a song of passion to her chemist lover. The song (to the tune of "Put Your Arms Around Me, Honey") makes light of the ridiculous contradiction as a research chemist in love.

No one is safe from the derision of the skit-writers—not even the lowly undergraduates. Mr. Ed Hutchings, editor of *Engineering and Science*, makes a commendable contribution as the

stupid student in a dialogue with what appears to be an equally dim-witted professor. His be-bop slang and remarks like "Pauling, (you mean) the guy with the unswept haircut?" are a cinch to bring chuckles to the innocent listener.

The production ends with more inspired Kent Clark solos.

Granted that, at times, some of the "actors" drag their lines as if their next word would be their last, and the listener is in pain along with them. But, the show's authors, Kent Clark, Norman Davidson, Jack Dunitz, and Ted Harrold have produced what we think is a pretty funny bit of nonsense.

Caltech Pharmacy

PRESCRIPTIONS

Dependable Registered Pharmacists

FOUNTAIN

BREAKFAST, LUNCH, DINNER

882 East California Street

SYcamore 2-2101

Pasadena 1, California

MUSICAL SHORTS

By Stanley Grotch

Writing a condemnation of high fidelity for such a throng of hi-fi fanatics as exists at Tech may be dangerous but I feel that such a criticism should have come long ago. I write this article not as one bitter because he does not have hi-fi, nor solely as a criticism of others, but as one of the unfortunate victims of the symptoms I describe below.

If one enters the den of the hi-fi-natics (self-coined word) and makes the mistake of asking to "hear what hi-fi sounds like" the following invariably occurs. The audiophile flips the master switch (one or six) and immediately a score of tubes lights up. "Listen," he says, with a deep satisfaction. You listen—a big nothing. "It's up to twenty watts and still no noise, great, huh."

After lowering the one gram (weigh it) diamond stylus to the radioactively static-proofed record on a rumble-free (feel it) turntable you are greeted by the shattering strains of "Pictures at an Exhibition" played at a level almost certain to rouse Mussorgsky from his grave. If a hi-fi-natic has a twenty watt amplifier why shouldn't he take full advantage of that fact, after all electricity is free in the student houses. He reasons that if music sounds loud in a huge concert hall it should sound proportionately louder when played in a small room.

My major objection to high fidelity is the fact that the music-lover turned hi-fi-natic becomes a lover of sound, not music. The popularity among audio bugs of the impressive sounding demonstration records shows this quite clearly. No longer will he buy a recording of Caruso or

Campus Brewins

"Sedimentary rocks are laid in beds."
—Geology lecture.

Man, oh Man, dig them crazy rocks. The Beak is usually forced to sleep through Tech lectures, but when this little morsel came floating in, Ge 1, we nearly fell out of the chair. Geology may not be do dull after all.

Dabney provided a very pleasant party-party last week. Enroute to same, Ashby's date came up with an interesting comment. The pair found themselves lost in the Pasadena wilderness, and she provided a simple solution. "You drive, and I'll look for a motel." Ashby picked himself expectantly off the car floor, only to find that she wanted the motel to serve as a landmark. Too bad.

Snowed

Boughton and Morse are finally at peace after a ride over the rivers and through the snow to grandmother's Snow Valley ski lodge. The long distance they had to travel had prompted them to make the trip co-educational. So when Boughton got hopelessly lost, muffled sounds out of the rear seat indicated that Morse was far from being panicked at the thought of being snowbound or lost for a night or so. Consequently, he became suddenly reciprocally-Morse-like (silent)

Rachmaninoff; no longer will he buy a record for the artist's interpretation; he will purchase sound before music. I am afraid that the tendency for music to become subjugated to frequency response has become too prevalent among former music enthusiasts. It is about time that he realizes that he is listening to Beethoven or Mozart rather than Altec Lansing or Full Dimensional Sound.

in regards to information as to where they were located. The Beak surmises that any future such sojourns into the wilderness will be made with Morse behind the wheel. After the trip, hukster Morse informed the Rowdies that their Snow Party will be a real "bang-up" affair.

Davis Daunted

Believe it or not, the greatest Casanova of all time finally met his match at the Fleming house exchange on Saturday night. The Beak is referring, of course, to the one and only Bill Davis. At 11:30 a certain young damsel was seen departing in Mr. Davis's company, but quite to everyone's surprise a crestfallen Mr. Davis returned alone at the stroke of midnight stating that said young damsel was departing for Ojai at 5 o'clock the next morning. We bet, Bill, we bet!

The most cataclysmic separation since the South seceded from the North occurred last Friday night. For the past several months the "Three-B's of Fleming," Ball, Berg, and Bush have been devoting their attentions to three lasses from South Passes (poetic license). After wining and dining these Phlegm stalwarts and treating (?) them to the outstanding musical concert

(Continued on Page 4)

KRAUS MOTOR COMPANY

Volkswagen — Porsche
Authorized Dealer

Service on All Foreign Cars

Special to All Caltech Students
and Faculty:

A FREE 6-MONTH LUBRICATION
CARD FOR ANY FOREIGN CAR.
COME IN AND GET YOURS

1987 E. Colorado SY. 2-2189
Pasadena RY. 1-5496

IBM

LEADING PRODUCER OF
ELECTRONIC AND ELECTRIC
ACCOUNTING AND
COMPUTING MACHINES,
TIME EQUIPMENT AND
ELECTRIC TYPEWRITERS.

OFFERS
EXCEPTIONAL CAREER OPPORTUNITIES TO

Seniors
and
Graduate Students
**CAMPUS
INTERVIEWS**

Jan. 27 - 28

If your degree or major is:

Liberal Arts • Business • Accounting
Engineering • Mathematics Sales

Physics • Mathematics • Engineering Applied Science

Physics • Mechanical • Electrical
Engineering Physics Engineering

Industrial • Electrical • Mechanical Manufacturing

Accounting • Administration
Management • Auditing Business Administration

CALL YOUR COLLEGE PLACEMENT OFFICE
FOR APPOINTMENT, TODAY!

If you cannot attend interviews, write for
more information to Mr. B. N. Luther
International Business Machines Corporation
590 Madison Ave., New York 22, N. Y.

Sales and Service Offices in Principal Cities
throughout the U. S.

What you should
know about
International
Business Machines

International Business
Machines Corporation is
one of America's leading
engineering, manufactur-
ing and selling organiza-
tions, serving business,
industry, government, sci-
ence and education.

You'll be joining a company
with a 40-year record of
growth, stable employ-
ment, and one of the lowest
employee turnover records
in the country.

Your future will be as big
as you make it, with ad-
vancement entirely on
merit.

Excellent salary and em-
ployee benefit program
with life-long advantages
for you and your family.

Complete initial training in
each of the employment
classifications listed.

Mononucleosis hits college students; you may be next

By Marty Tangora

If you don't know about mononucleosis—and I'll bet you don't—now is probably as good a time as any to learn about it. The reason you should learn something about it is that there's a darn good chance that you'll have it in the next few years. It's a disease.

Maybe you have never heard of mononucleosis. If this is the case, swallow the following facts: If you are human, you are probably susceptible to it; when you catch it, it may lay you up for weeks; several Techmen have had it in the past year; at some colleges, it has broken out in epidemics, so that, for example, 300 cases were reported this fall at Northwestern University.

Maybe, on the other hand, mono is old stuff to you; you've already heard it mentioned by friends at other colleges. If this is the case, you've probably heard it likes to attack college students, especially those who have been getting more work than sleep, and that it does something to your blood.

I had heard nothing about mono but these rumors. They sounded so interesting to me that I dropped in on the biologists one day last week for the true clue, which was quite unexpected. The gentleman I talked to was Dr. Knudson, a quiet, pleasant young M. D. who hides out in one of those offices in second-floor Kerckhoff.

The first thing to learn is that this business about mono attacking college students is misleading. Actually, mono is an infectious disease which isn't really particular about its victims. The catch is that it is more often recognized in students, because college health centers are on the lookout for it; while in the outside world many cases of mono are shrugged off as flu or bad colds or just passing sicknesses,

and are never properly diagnosed.

You should also know that mono is not highly contagious, but only moderately infectious. While it may occasionally break out as an epidemic, as at Northwestern, it actually occurs only sporadically and in more or less isolated cases.

Mononucleosis derives its name from its methods. Your blood contains two general kinds of white cells. One kind has a smooth, roughly spherical nucleus; the other kind has nuclei with large protruding lobes. The term "mononuclear," is applied to the first type; and it is these cells which are attacked by the disease.

Next time you have a sore throat, and feel excessively tired; when a blood smear shows that your mononuclear blood cells are up in both size and number, and show certain abnormalities of structure; when your glands are swollen, and you have headaches, and your liver and spleen are enlarged, and the doctor tells you that it's acute leukemia, and you only have a few months to live, cheer up!

It might just be mononucleosis.

CARL'S
CALTECH BARBERS
906 E. California
SY 3-7554

Y film series starts Sunday

On Sunday, January 23, at 7:00 p.m. in Culbertson auditorium, the Y film series will present as its first film this term Stanley Kramer's production of "All the King's Men." This film is unusual in that it was produced on a low budget and yet went on to receive the 1949 Academy Awards for best actor, supporting actress and production. Broderick Crawford has the lead spot with Mercedes McCambridge in a supporting role.

Crawford takes the part of Willie Stark, who begins as the stooge of a political machine. The sudden realization that he is being used as a pawn forces him to fight the machine for the controlling power, and his success drives him to create a machine of even greater power. This film is a drama of the rise and fall of a political demagogue and is supposedly based on the life of the late Huey Long.

On the same program will be a French short entitled "Pacific 231." This is an impressionistic visualization of a locomotive journey through the French countryside, all inspired by Arthur Honneger's orchestral piece, "Pacific 231," which is the musical score.

During this term, series tickets will not be sold.

80 Days in 20 Countries of Europe and Africa

\$1220 all expenses from N. Y. by Air (from L.A., 87 days, June 17 - Sept. 11, \$1395).

EUROPE 80 - 20
255 Sequoia Dr., Pasadena 2

Tech sailors lose to Orange Coast

The Caltech Racing Team, competing against Orange Coast College last Sunday, Jan. 17, at the Los Angeles Yacht Club, lost a close match by the score of 86 to 75.

Caltech pulled ahead in the beginning by winning the first two races. However Orange Coast, coming from behind, won the next four races to take the meet.

Ron Wann and Fritz Trapnell were the individual stars for Caltech, winning the first and second race respectively. Buster Hammond of OCC led the field by winning three races.

KIRK ELECTED
(Continued from Page 1)
kept his office by defeating Howard Hilton, the only other candidate for the position.

Six members of the class of '58 ran for Board of Control positions. Alan Forsythe, Dick Neville, and Tod Whitmore were eliminated by the first balloting. Incumbents Jon Stedman and Ken Collins out polled Galen Sarno in the runoff to serve their second term in office.

Pix peddler pushes prints

A picture-renting service is now available to student house members. According to House Czar George Mayhew, color prints of famous paintings can be rented from his office for 50 cents per year.

The fee will cover the cost of borrowing four interchangeable prints, a frame, and the hooks and wires necessary to hang the pictures. All paintings are the work of well-known artists like Degas, Renoir, and Cezanne. Each set includes four different, contrasting prints.

At present, only twenty-four picture sets are available for distribution. House members who have already indicated their interest will have priority on these. The money collected will be used to take care of depreciation and replacement costs of the pictures and frames. If student interest proves sufficient to justify expansion of the program, additional picture sets will be purchased.

GENERAL PETROLEUM CORPORATION

(A Socony-Vacuum Company)

CAREER OPPORTUNITIES IN PRODUCTION DEPARTMENT

Summer work for undergraduates interested in permanent employment after graduation. Training Program for technical graduates in engineering and science leading to technical or supervisory positions.

Printed information available at CIT Placement Office. Personal interviews can be arranged by phoning Hallan N. Marsh, General Petroleum, MA. 6-5711.

College smokers are sure going for Winston!



WINSTON TASTES GOOD!

LIKE A CIGARETTE SHOULD!

FINER FILTER!

FINER FLAVOR!

KING SIZE, TOO!

WINSTON

the filter cigarette that really tastes like a cigarette!

■ No wonder Winston's so popular with college smokers! It's got *real flavor*—full, rich flavor you'll really enjoy. Winston tastes good—like a cigarette should!

Along with finer flavor, Winston also brings you a finer filter. The exclusive

Winston filter works so effectively, yet doesn't "thin" the taste or flatten the flavor. Winston lets you draw smoothly, easily—there's no effort to puff!

Try Winston, the filter cigarette that tastes good—like a cigarette should!

Smoke **WINSTON** the easy-drawing filter cigarette!

CAMPUS BREWINS

(Continued from Page 2)
of the century (George Auld), the aforementioned lasses were astounded to be told that their services were no longer required. Evidently these eager young Econ snakes felt that these affairs had reached the point of diminishing returns. Long live

Brockie!

Two Boy Friends

The Beak's deepest sympathy goes out to Al Poisner this week. It seems that Al appeared at his beloved's house in Westwood to find the living room full of her other date for the evening. Everyone turned pink on the

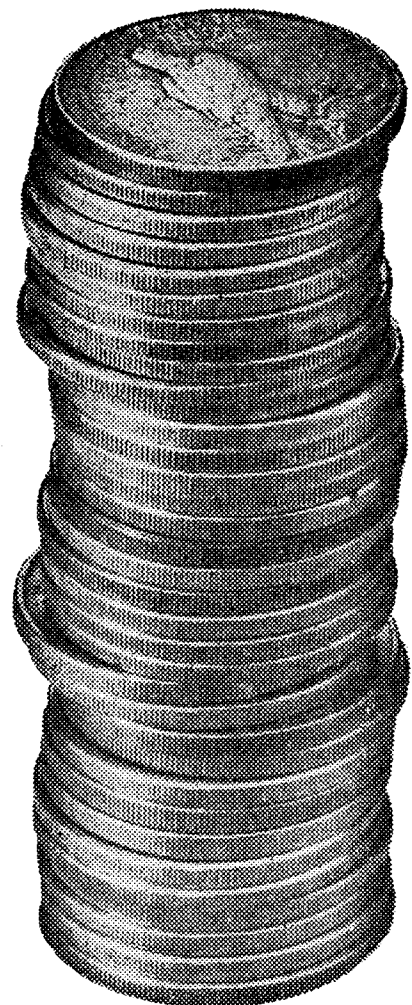
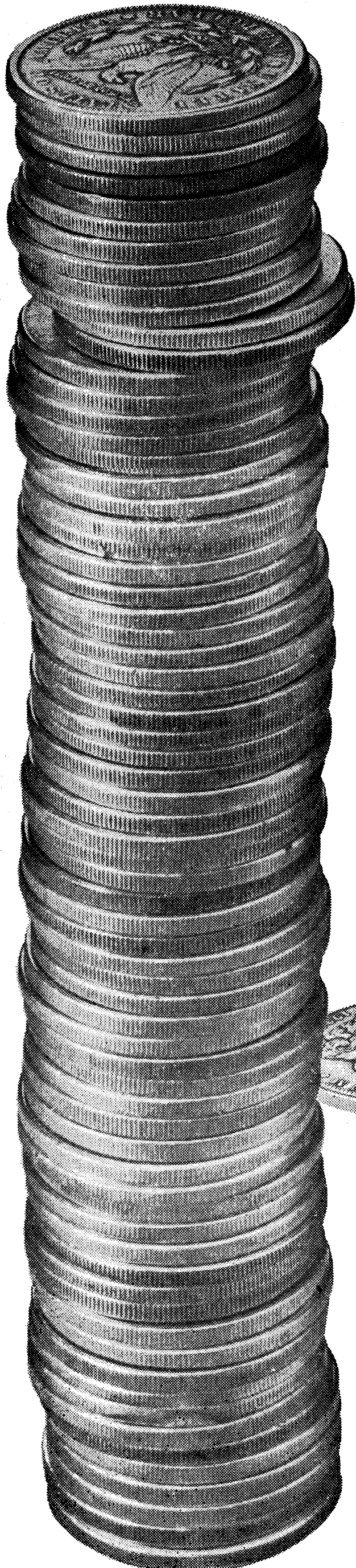
spot except her mother, who came gaily tripping into the room and announced that she could go along with Al instead. He saved the night by suggesting that perhaps there might be another damsel in the neighborhood even more eligible, and a short time later he had found the same. How did you do with

your lovely's best friend, Al?

Louise

Blacker Prexy Helgesson has become the center of attention in the "Louise" case. A misplaced note on his car pledged undying love to a certain math grad student whose initials are Charles Swanson. The note was from a

party by the name of Louise who described herself as five foot four inches, brown hair and lots of "etc." Resourceful Al quickly sleuthed out her full name, address and within 24 hours met her. Wrong numbers and wrong addresses are the greatest, aren't they Al?



WHAT DID IT COST TO CREATE YOUR JOB?

If you're an average U.S. factory worker—\$12,000.
If you're a rough carpenter, it took approximately \$350 worth of tools to set you up in your trade.
Tools for a garage mechanic cost about \$3,000; for a Washington wheat farmer \$12,500; for a secretary \$300.
But if you work for Union Oil, it took \$77,000 worth of tools in the form of trucks, service stations, refineries, oil wells, etc., to create your job.* Obviously, some of our jobs require considerably less investment than \$77,000 and some considerably more. But this is the average for Union's more than 9,000 employees.
That's big money. But it accomplishes big things.
It brings Union's customers better products at lower costs. It enables each employee to produce more and therefore earn more. It creates better jobs and a higher standard of living.
**Even this figure does not include the "tools" Union rents for its employees, such as office space, tankers, telephone service, etc.*

UNION OIL 76 COMPANY
OF CALIFORNIA

This is one of a series by the people of Union Oil to explain how business functions. Your comments are invited. Write The President, Union Oil Company, Union Oil Bldg., Los Angeles 17, California.

Sagehens drop Beavers, 49-46

Caltech took over sole possession of the SCIAC cellar Tuesday night by virtue of a 49-46 defeat at the hands of the Pomona-Claremont Sagehens. It was Tech's third conference defeat and left them a half game behind the Sagehens, who gained their first victory.

Coach Carl Shy's Beavers jumped into an early lead of six points but Pomona kept pecking away at it and tied up the score minutes before the end of the half. The Hens took a 27-25 advantage by half-time and Tech never caught up. The visitors held as much as a seven point lead in the second half, until the Beavers rallied in the waning minutes to close the gap to two, but a pair of Pomona free throws brought the score to 48-44 and put the game on ice.

Shymen bow to Oxy Tigers, beat Cal Poly

Caltech's varsity cagers tasted conference defeat for the second straight time last Friday night as they dropped a 77-60 encounter to Occidental before a standing-room only crowd in the Oxy crackerbox.

The Shymen got off to a good start and opened up a 13-8 lead, but suddenly they turned cold while the Tigers sank fifteen straight points to jump into a 23-13 lead. That put Tech into a hole from which they could never get out. Oxy, led by the torrid shooting of Ted Tiffany, continued to pour it on and at half time they led 46-28. In the second half Oxy played their reserves a good part of the time, but the Beavers could only gain one point, outscoring the home team, 32-31.

The game saw a lot of poor passing on the part of the Tech team, which Oxy was quick to take advantage of. Tigers Tiffany and Bob Henry were both excellent outside shooters, but 6'7" Dick Sovde did not show very much as Tech center Phil Conley held him to six points and outplayed him under both backboards.

Tiffany led all scorers for the night with 29 points on 10 field goals and 9 out of 11 free throws. Conley had Tech's high of 18. Henry scored 16 and Bill Chambers and Paul Lindfors of Tech basketed 15 and 14 respectively.

Saturday night Tech raised its non-conference winning streak to two games as it defeated Cal Poly 58-49 in the Covina High School gym. The Beavers jumped to a quick lead which they increased to 32-20 at the intermission. In the second half the

Frosh lose to Bengal babes

Tech's frosh five suffered their first loss Friday as a steady Occidental team kept them to the small end of a 76-59 score.

Guards Ron Marson and Sonny Nelson led the squad as usual with 26 and 18 points. Weakness in the forward positions forced the Beavers to rely on long shots, decidedly against the odds. The small court hampered working the ball in toward the basket. In addition Dick Van Kirk was far off his usual form and Don Wi-berg had trouble handling the ball.

Center Glenn Converse was held to six points, unable to shoot from the post on the crowded court. Tied up by two men whenever he received the ball, he was forced to pass it out again.

Tech shifted between man-to-man and zone defenses, but could not stop the hot Oxy contingent. The Eagle Rock crew took a 33-26 halftime lead and was never headed. Our frosh, however, profess confidence that they will best the rivals in their return match in the Scott Brown gymnasium.

Jim Tyler returned to Tech's lineup for the first time since his injury and netted 13 points as high scorer for the Beavers. He also hauled in a lot of rebounds, especially off the defensive backboard. The rest of the Tech team, however, was bottled up pretty effectively by a tight Pomona defense which kept Chambers to 4 points and Conley to 6 points before he fouled out with nearly ten minutes left to play. George Madsen played a fine game for Caltech, scoring 12 points. Pete Carlson led the Pomona team with twenty markers and Buzz

(Continued on Page 6)

HERE'N THERE IN SPORTS

By Arne Kalm

Why is the Caltech basketball team which was the toast of the conference last year wallowing in the depths of the conference basement this year? There must be some good reasons for this . . . True, Fred Anson, all-SCIAC everything for the last three years, is not around any more. Sure, Howard Shanks, last year's stellar guard and all-conference second team member, is also gone. Granted, that Jim Tyler missed eight games because of a broken hand. But are those the reasons?

A Story in Statistics

Yes, partly, I suppose, but there are others. For one thing the competition in the conference is a lot hotter this year. Another and very important part of the trouble though is only brought out in the scoring statistics.

In the first ten games the team has hit for a considerably less than torrid 57.8% average from the free throw line. This inaccurate shooting has cost Tech the game in several instances. Take for example the Pomona game, the Beavers made 14 out of 30 free throws, while the Hens were

connecting on 21 out of 31. Pomona's margin of victory was three points and if Tech would have had the same free throw percentage as Pomona, we would have won the game.

Individual percentages of those having more than ten free throw attempts read like this: Lindfors is tops with 70%, Tyler has 66.7% in the two games he has played, Chambers has 61.1%, Madsen — 60.3%, Moody — 58.6%, Chilton — 58.3%, and Conley — 45.4%.

Percentages Poor

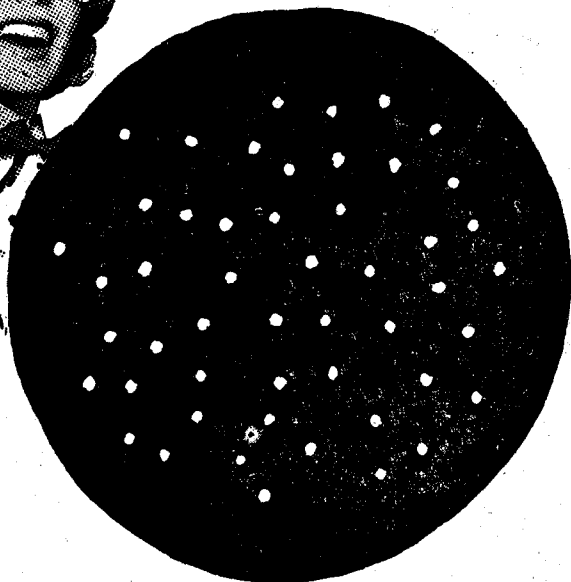
Then there is the other matter of shooting from the field. Records, which have been taken for the last four games only, show that during that period the Tech team has a 27.4% completion average on field goal attempts—below standard in any league. In this department Lindfors has 30%. Conley has taken the most shots and has a 29.4% average. Chambers falls farther behind with 23.1% and Moody lags with 22.7%.

If the team improves in these two departments it is bound to move up in the league. We hope that it will.

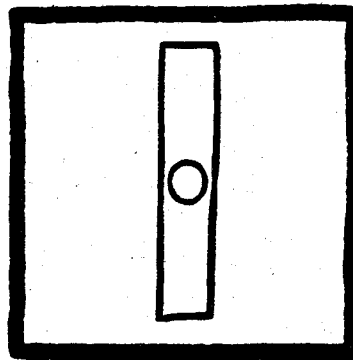
LOOK! LOOK! LOOK! LUCKY DROODLES!



WHAT'S THIS?
For solution see paragraph below.



OBVIOUSLY, THE TITLE of the above Droodle is: 47 insectology students enjoying better-tasting Luckies while studying 3 fireflies. All kinds of students are bugs about Luckies. Matter of fact, college smokers prefer Luckies to all other brands—and by a wide margin—according to the latest and greatest of all college surveys. Once again, the No. 1 reason: Luckies taste better. They taste better, first of all, because Lucky Strike means fine tobacco. Then, that tobacco is toasted to taste better. "It's Toasted"—the famous Lucky Strike process—tones up Luckies' light, good-tasting tobacco to make it taste even better . . . cleaner, fresher, smoother. So, enjoy the better-tasting cigarette . . . Lucky Strike.



HOLE IN ONE
Leonard W. Rozin
University of Kansas

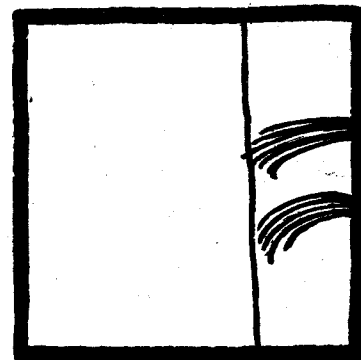
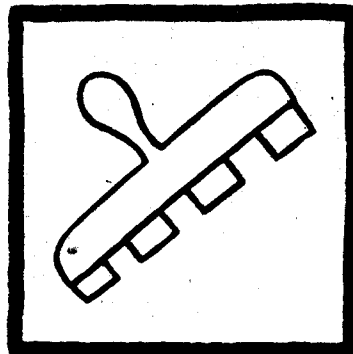
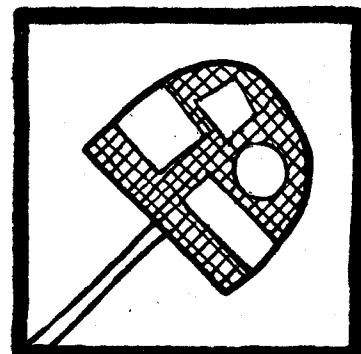


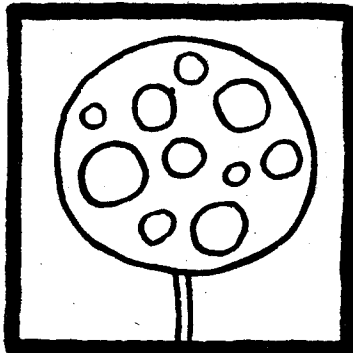
PHOTO FINISH OF HORSE RACE BY SLOW CAMERAMAN
John Davis
Bucknell University



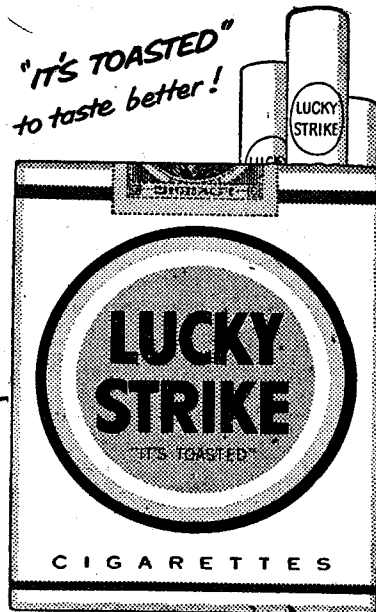
PAINTBRUSH FOR PAINTING BARBER POLE
Eugene Heller
Columbia University



FLY SWATTER DESIGNED TO GIVE FLY SPORTING CHANCE
Alan M. Becker
Pomona College



ALL-DAY SUCKER FOR DIETERS
Judith Lee Midgley
American University



PASADENA BOWLING LANES
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 Sundays and Holidays
25c per line

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

Better taste Luckies...
LUCKIES
TASTE BETTER
CLEANER, FRESHER, SMOOTHER!

STUDENTS! **EARN \$25!**

Lucky Droodles* are pouring in! Where are yours? We pay \$25 for all we use, and for many we don't use. So send every original Droodle in your noodle, with its descriptive title, to Lucky Droodle, P. O. Box 67, New York 46, N. Y.

*DROODLES, Copyright 1953 by Roger Price.

House social circles whirl with plays, dances, parties

House social programs top the weekend's schedule of events as Techmen prepare for a healthy fling before the mid-term tightness sets in.

Friday night, following the Caltech-Whittier basketball game, Throop Club will hold an open house for those with dates who wish to round out the evening with a bit of dancing.

Saturday night is the big night for the on-campus men, each of the four houses having arranged entertainment of varying sorts.

"Rose Tatroo," a play by Tennessee Williams, will engage the time of Ricketts' men as they travel to the Players Ring to view it. If time permits, following the play the couples may adjourn to Ricketts' lounge to step to the music of their wonderful hi-fi phonograph.

Blacker, too, plans a theater party but will take in "Tea-

house of the August Moon," a new play currently playing at the Biltmore. A dance in the Blacker lounge may follow the play. Lindfors, house co-social chairman, stated that they were barely able to get enough accommodations, so if ticket sales are an indication they have chosen wisely.

The men of Dabney house may take their choice between bowling at the Pasadena Bowling Courts, or ice skating at the local rink located on the Arroyo Seco. Later that night they have planned to return to the lounge for a party.

Fleming sticks to the old standby, an exchange, but offers women from three localities at their Saturday night dance. It is not known if they will continue the custom, as per last Saturday night, of obtaining corsages for the young ladies but they promise to entertain them royally in any case. The women are from South Pasadena High, the Pasadena Playhouse and the Los Angeles County Hospital.

Beaverbabes lose to Chicks in cold battle

A cold Tech freshman team lost to Pomona 66-40 Tuesday in Scott Brown gymnasium.

Poor shooting and rebounding combined with general dullness and bad physical condition as the local squad scored only one point in the first ten minutes of play. Ron Marson, sharp-eyed guard, had his worst night but still led the team with 12 points. Sparkplug Sonny Nelson could not find the basket and ended the game with four points.

Pomona failed to run the score higher because they also started miserably. The Sagehens looked better in the second half when they began to hit a little more consistently. For Tech it was just one of those hideous nights that are best forgotten.

We look forward to tomorrow night's home game with Whittier and anticipate a return to form. Our team at its best is capable of giving Whittier a devilishly hard time.

I. H. Sports

The second lap of the interhouse trophy race gets under way Saturday in Tournament Park as the five houses mix it up in the IH tennis matches. Blacker, who at present leads second-place Dabney by thirteen points, is a top-heavy favorite to sweep the tennis tourney and increase its lead in the trophy race. The other four houses will meanwhile be fighting it out for the remaining four places.

After tennis, the next item on the interhouse agenda will be track with the meet taking place on Saturday, February 12. All men who expect to compete must take at least ten workouts before January 17.

Present Standings

Blacker	60
Babney	47
Fleming	41
Ricketts	29
Throop	18

CAMPUS BARBER SHOP
In Old Dorm
Where Everyone Is Welcome
Paul A. Harmon

SAGEHENS DROP

(Continued from page 5)
Bisantz had ten.

Tomorrow night Caltech entertains the league-leading Whittier Poets in Scott Brown gymnasium at 8:15 p. m. Next week the Beavers get a week off from conference play as they meet Pasadena Nazarene on Tuesday afternoon and L.A. State on Friday night. Both are home games.

SHYMEN BOW

(Continued from Page 5)

Broncos started to pull up, but Tech stalled them off and coasted to victory.

Phil Conley caged 18 points for top honors. Bill Chambers had 16, while George Madsen, Rol Moody, and Paul Lindfors each had 8.

Your Nearest Laundry

SUDS-KISSED, Inc.

Authorized Westinghouse Laundromat

Near corner of Lake and California

Dry Cleaning—Finished Laundry

Free Parking—S&H Green Stamps

24-Hour Laundry Drop

922 E. California St. SY. 2-2300

Interview Schedule

- Thursday, 20—BS, MS, PhD/Ae, ME, Ph. PROPULSION RESEARCH CORPORATION, Santa Monica, Calif.
- Thursday, 20—BSup/ME, EE, THE WARNER & SWASEY COMPANY, Cleveland, O.
- Friday, 21—BS, MS, PhD/Ph, EE, UNIVERSITY OF CALIFORNIA RADIATION LABORATORY, Livermore, Calif.
- Friday, 21—BS/ME; BS, MS/Ae, UNIVERSITY OF SOUTHERN CALIFORNIA ENGINEERING CENTER, Los Angeles and Pt. Magu, California.
- Friday, 21—BS, MS, PhD/Ae, EE, ME, STANLEY AVIATION CORPORATION Denver Colorado and Buffalo, N. Y.
- Monday, 24; Tuesday 25, and Wednesday 26—BS, MS, Ph.D/Ph, EE, ME, CE, Ae, Ch.E., NORTH AMERICAN AVIATION, INC., Downey, Calif.
- Wednesday, 26—BS/Bi, Ch, THE UPJOHN COMPANY, Positions in sales.
- Wednesday, 26—BS, MS/CE, EE, ME, LOS ANGELES COUNTY CIVIL SERVICE, Interviews for positions in the following divisions: Flood Control, County Roads, and Engineering.
- Thursday, 27—BS, MS, Engr./Ae; BS/Ma (Interested in Digital Computer Work) COOPERATIVE WIND TUNNEL.
- Thursday, 27—BS, MS/Ch.E, ME, Ph, Ch, LINDE AIR PRODUCTS.
- Thursday, 27; and Friday, 28—INTERNATIONAL BUSINESS MACHINES. I—BS, MS, Ph.D/EE, ME, Ph, Ma. Engineering Research and Development and Engineering Manufacturing. II—MS, PhD/Ph, EE, Ma—Applied Science Division. III—BS, MS/EE, ME—Sales.

DROP BUNDLE SERVICE
"LEAVE IT — WE DO IT"
24-HOUR SHIRT SERVICE
FINISH LAUNDRY
&
DRY CLEANING
LAKE AVE. WASH OUT
563 S. LAKE
(at California)



WILBUR JUST WOKE UP TO THE FACT THAT HE'S IN CLASS!

KEEP ALERT FOR A BETTER POINT AVERAGE!

Don't let that "drowsy feeling" cramp your style in class . . . or when you're "hitting the books". Take a NoDoz Awakener! In a few minutes, you'll be your normal best . . . wide awake . . . alert! Your doctor will tell you—NoDoz Awakeners are safe as coffee. Keep a pack handy!

15 TABLETS, 35c



PUT A Smile IN YOUR Smoking!

Try **CHESTERFIELD** Today —

You'll smile your approval of Chesterfield's smoothness — mildness — refreshing taste.

You'll smile your approval of Chesterfield's quality — highest quality — low nicotine.

IN THE WHOLE WIDE WORLD NO CIGARETTE Satisfies LIKE CHESTERFIELD