

SEE YOU AT
THE RIVIERA

CALIFORNIA TECH

CONGRATULATIONS,
DAVE

California Institute of Technology
Pasadena, California, Thursday, March 1, 1951

No. 19

Volume LII

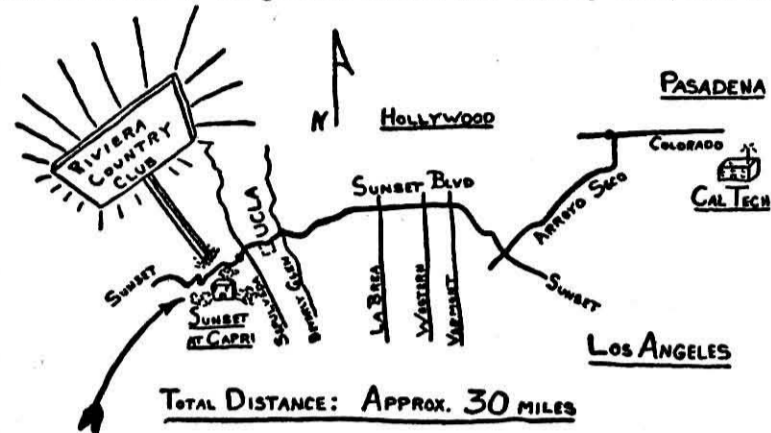
'Jump for Joy' At ASCIT Dance

Riviera Country Club Destination of Techmen Sat.;
Keith Williams Band, 'Best on Coast,' to Play

This term's ASCIT dance will be held at the Riviera Country Club on Saturday night, March 3rd. Dancing will be from 9 to 1, with the bar and kitchen of the club open during this time.

Theme

"Jump for Joy" will be the theme for this dance, which, with its decorations of 800 various colored helium filled balloons, promises to be one of the greatest dances ever held by Tech, said Art



Cuse, first rep.

The Riviera Country Club is located at the end of Sunset Blvd., near the beach. It was the site recently of the Los Angeles Open Golf Tournament, and has been the site of earlier Tech dances. Just last fall the entire club, although of recent construction, was renovated at a cost of \$50,000, and now is one of the finest country clubs on the Pacific Coast.

Music by Keith Williams

Music will be by Keith Williams and his 10 piece orchestra with vocals by Dotty Irwin. Williams' crew is composed of hard driving imaginative young musicians who put out a brand of music very similar to that of the old Artie Shaw band. Williams himself has played with Bobby Sherwood and Charley Barnet, while his sidemen have been associated with Ziggy Elman, Jimmy Dorsey, Harry James, Benny Goodman, and Frankie Carle.

Jimmy Higson, noted arranger and conductor of the Hoagy Carmichael NBC Show, Bob Graettinger, arranger for the Great Stan Kenton orchestra, and Dick Allen, winner of the Carl Sandburg award for serious composition have orchestrated Keith Williams' music.

Last year Keith Williams' orchestra was voted the favorite of Southern California Colleges as a dance band, while Steve Allen and Gene Norman have called the band "Without a doubt, the best band on the current west coast scene."

Intermission music will be furnished by a student combo of famous student house, Throop club, and off campus musicians. According to the wishes of the

Prof. Sorensen Receives Honor

Dr. Royal W. Sorensen, Professor of Electrical Engineering (Emeritus) at Caltech has been elected as an honorary member of the Institute of Electrical Engineers of Japan.

One Other Living Member

The only other living honorary member of the organization is Dr. Irving Langmuir, former director of the General Electric Company Research Laboratory. Other previous electees were Thomas A. Edison, Frank B. Jewett, Elmer A. Sperry and A. E. Kennelly.

His certificate of membership is to be delivered by Dr. Matsujiro Oyama, Dean of the Faculty of Engineering, Tokyo University, and past president of the IEEEJ.

Visited Japan in '47

He visited Japan in 1947 as the engineering member of a six-man scientific advisory group appointed by the National Academy of Sciences at the request of the Federal government. The group evaluated plans submitted by the Japanese and made recommendations for democratizing their scientific and technological research, education and industry.

student body as taken in the social poll, the dance will be party type, that is, suits or sport coats for the fellows, and party dresses for the girls. Admission will be by student body card. Art Cuse promises that "Jump for Joy" will be one of the most terrific dances this or any year of the Tech social calendar.

Y TO HOLD ELECTIONS

Next Wednesday, March 7, the YMCA elections will be held in 106 Dabney at 7:30. All interested members are invited, state "Y" officials.

Balloony Babe . . .



Ramona Carr, featured as a vocalist with Keith Williams' Band at the ASCIT dance Saturday night.

CIT Orchestra At Tomorrow's 11:00 Assembly

The Assembly in Culbertson tomorrow promises to be one of the finest orchestral assemblies that Techmen have seen in a very long time, according to Frank Ludwig, rally commissioner.

Caltech's orchestra this year is under the direction of Mr. William Kline.

Among some of the better known pieces to be played will be "Polka" and "Furiant" from the "Bartered Bride" and "Slavonic Dance No. 8" by Anton Dvorak. The program is:

- Sheep May Safely GrazeBach
- Violin Duet (Doug Calley and Dan Brown)Bartok
- "Polka" and "Furiant" from "Bartered Bride"Smetana
- Flute Solo (Vic Van Lint)Rameau
- Suite from DardanusRameau
- Violin Solo (Dick Taylor)
- Slavonic Dance No. 8Dvorak

New Clothes Dryers In Student Houses

In place of smog-dried clothes Student House members may now use automatic clothes dryers to dry their laundry. The new machines were installed last week in the Blacker-Dabney court, and for a dime they will spin the clothes dry.

The dryers operate for an hour—heating and tumbling the clothes dry. Each dryer will hold nine pounds of laundry, which is about what the washers hold.

New News Director Gives Public Dope on Tech

By Bob Cobb

What happens when a man in another line of work gets bitten by the "bug of science?" Mr. Robert G. Fiedler, new director of the Institute News Bureau, offers one answer to that question.

Exposed

After training for a career in journalism and gaining experience writing for the United Press, Mr. Fiedler was first exposed to science in a big way by the army.

At Missouri

Mr. Fiedler was born and raised in St. Louis, Missouri, and attended high school there. He spent two years in Westminster College, after which he switched to the University of Missouri and finished up in journalism.

For UP

Then Mr. Fiedler went to work for the United Press, writing both for radio and newspapers.

And for Army

"I then spent four years in the army at Uncle Sam's request," he recalls, "and after basic training I was sent to the



Brook Hospital Ft. Sam Houston. There he also served as an instructor, but the classes were as small as two men, because of the smaller demand for technicians.

In his "spare time" Mr. Fiedler inaugurated a publicity program for the school, and did a general survey of the Fort for recruiting publicity.

The Bug Bites

Then, "with the bug of science having bitten me", he returned to the U.P., and used every opportunity to write up science articles and stories. "I also took night courses at Washington University in St. Louis," he said, "taking up physics and math. Then I quit my job to attend the school for a year of full-time day courses, mainly physics and math."

Comes to Tech

After serving again on the staff of the U.P., Mr. Fiedler went east last year to take a job as an Associate Editor of Pathfinder Magazine, and from that position came to Tech.

New Title

Incidentally, the old Public Re-

(Continued on Page 2)

Hanna Captures Presidency In 1951 A.S.C.I.T. Elections

Sharp Speaks Tomorrow at TBPI Banquet

Dr. Robert P. Sharp of the Geology Division will be the guest speaker tomorrow night, when undergraduate, graduate, and faculty members from Caltech, and alumni members from all over the Los Angeles area, gather at Pierre's for the second Tau Beta Pi initiation banquet of the year.

Pledge Period Over

The banquet is the climax of the two week pledge period, during which the nearly 20 initiates to the national engineering honorary society have put the finishing touches on their small, bronze "bents," replicas of the official insignia of the organization, have written essays, and performed other pledge duties.

Essay Contest

The prize-winning essay will be awarded the local prize of five dollars, then sent to national Tau Beta Pi headquarters to represent Caltech in the nationwide contest, for which a prize of 50 dollars is offered. This term the local chapter has asked the pledges to write on the question "How could the United States best utilize its college level engineers and scientists during a national emergency." The winner of the local contest will be announced at the banquet.

(Continued on Page 4)

Plaque Named In Bio Library

A memorial plaque honoring the late Thomas Hunt Morgan, world-renowned geneticist, was dedicated last Friday in the library of Kerckhoff.

Dr. Morgan, who established the Caltech Division of Biology, was an outstanding exponent of the experimental approach in biological studies. His research with fruit flies (*Drosophila*) laid the groundwork for the chromosome theory of heredity, a basis of modern genetics. For it he received the 1933 Nobel Prize in Medicine.

New Professorship

President Lee A. DuBridge announced the foundation of a Thomas Hunt Morgan Professorship of Biology and appointment of one of Dr. Morgan's students—Dr. A. H. Sturtevant, Professor of Genetics—to that post. It was he who first established that the heredity-controlling genes are distributed in the chromosome like beads in a string.

Thayer First Recipient

Dr. DuBridge also announced Philip S. Thayer as recipient of the first Thomas Hunt Morgan Award. It will be given annually to a graduate student completing his Ph.D. degree requirements in biology.

State Engineers' Exam Offered

The next California Professional Engineers' examination will be held on July 20, according to Dr. Sorensen, Professor Emeritus of Electrical Engineering.

Class of '51 Eligible

Students graduating in June, 1951, may take the Engineer-in-Training portion of the exam July 20 if an application is filed by March 15 in the placement office. Application forms are now available in the placement office.

By special arrangement stu-

Callaghan is V.P., La Tourette Secretary; Gee Wins Run-off for Treasurer

Last Thursday's elections climaxed a spirited campaign which is reminiscent of the "old" college days. Many of the races were close and hot. Dave Hanna edged out Stan Groner by 73 votes for the office of ASCIT President. Mike Callaghan won the post of Vice-President by the narrow margin of 21 votes over John McCourt. John Gee became treasurer and Bruce Watkins second rep at the run-off elections Tuesday.



DAVE HANNA
New ASCIT President

The proposed amendment to Sec. 3 of Article V, ASCIT by-laws, passed by the overwhelming vote of 362 to 31.

Results are tabulated below.

Board Sworn in Tonight

The new Board of Directors with the exception of the treasurer, will be sworn in tonight at their first meeting. The new treasurer, business manager of the Tech, and editor and business managers of the Big T will assume office next September. All other winners will take office next term.

President Dave Hanna

Vice-President Mike Callaghan

Secretary Jim La Tourette

Treasurer John Gee

Athletic Manager Babe Karasawa

Publicity Manager John Boppart

First Representative-at-Large Gil Kitching

Second Representative-at-Large Bruce Watkins

Rally Commissioner John Billings

Yell Leader Leon Vickman

Editor of the CALIFORNIA TECH Chuck Benjamin

Business Manager of the CALIFORNIA TECH Richard White

Editor of the BIG T Budd Le Tourneau

Business Manager of the BIG T Marv Hyman and Dick Tracy

Chemist Takes Yale Position

John Gamble Kirkwood, Arthur A. Noyes Professor of Chemistry at Caltech, has been named Sterling Professor of Chemistry and Chairman of the Department of Chemistry at Yale.

Provost Edgar S. Furniss, in announcing the appointment, said Dr. Kirkwood will assume the professorship July 1 as part of a Yale program to strengthen her science faculties.

DuBridge Announces

Caltech President Lee A. DuBridge in announcing Professor Kirkwood's resignation said: "The Faculty and Administration of the California Institute of Technology join in congratulating Professor Kirkwood most sincerely upon his appointment to the Sterling Professorship at Yale, one of the top scientific positions of the country. We also congratulate Yale University on securing the services of one of the nation's top chemists. "It is with sincere regret that the Institute has accepted Professor Kirkwood's resignation in order to accept this distinguished appointment. In the four years since he has been at the Institute he has won the admiration and respect of all his colleagues for his high scientific competence and also for those personal qualities which have made him a great teacher and a valued member of the Institute family."

Noted in Many Fields

Professor Kirkwood is noted for his work in the field of statistical mechanics and its application in the problems of chemistry. Many of his investigations have had great practical importance, among them his recently developed theory and procedure for the separation of proteins by a method known as electrophoresis.

His most recent honor was the award of the Theodore William Richards Medal in 1950 from the Northeastern Section of the American Chemical Society. In 1936 he was one of the youngest men ever to receive the A.C.S. Award in Pure Chemistry.

Campus Calendar

- THURSDAY, MARCH 1
7:15 Board of Directors Meeting. New Board sworn in.
- FRIDAY, MARCH 2
6:30 Frosh Basketball, Caltech vs. Pomona at Pomona.
8:00 Varsity Basketball, Caltech vs. Pomona at Pomona.
- SATURDAY, MARCH 3
9:00-12:00 Art Class, 04 Mudd
1:30 Varsity Tennis, Caltech vs. Chapman at Chapman.
1:30 Track, Varsity and Frosh Conference Relays at Occidental.
7:30 Film Classics Assembly, Culbertson Hall.
- MONDAY, MARCH 5
7:30 Film Classics Assembly, Culbertson Hall.

ASCE Speakers In Finals Monday

Next Monday the finals between three top CE seniors from Professors McCrery and McKee's CE14 class and a junior in CE will consist of talks to the ASCE meeting. The talks, which are part of the ASCE contest, will be on current topics in civil engineering. Judges will be Dr. Lindvall, Professor Schutz and Mr. McCormick.

Finals at Yosemite

The winner of this contest will represent CIT at Yosemite National park, Saturday, May 5, where he will compete with men from 10 other student chapters of the ASCE in the California-Nevada area.

This regular ASCE meeting will be held at 11 a.m. in 010E.

Interview Schedule

- MARCH, 1951
- THURSDAY, 1—BS & up/Ae, EE, ME, Ph. Ma. Wright Patterson Air Force Base, Dayton, Ohio. Mr. Beckham, Civilian Personnel Division.
- MONDAY, 5—Marine Corps Officer Procurement Representation—Major O. T. Koch, Sgt. Stephen A. Jacobs. Program for undergraduates and program for graduates—leading to commissions. Throop Hall, first floor.
- MONDAY, TUESDAY & WEDNESDAY, 5, 6 & 7—PhD Candidates completing their work within the next 15 months/Ch, CHE, EE, ME, BioCh. Interested BS & MS Candidates in the above options are free to write as soon as possible to the Du Pont Co., as they are now processing applications. E. I. Du Pont, Wilmington, Delaware.
- TUESDAY & WEDNESDAY, 6 & 7—BS, MS, PHD, ME, EE, CE, Ph. Northrop Aircraft Inc. Mr. Bly. Servomechanisms, Dynamics, Weights, Stress Analysis.
- WEDNESDAY, 7—BS, MS, PHD/Ch. CHE. Dow Chemical Co., Pittsburgh, Calif. Glenn L. Allen, Jr. BS, MS, Ph.D/Ch, Ph. ME, CHE, EE. Dow Chemical Co., Midland, Michigan, S. L. Starks.
- THURSDAY & FRIDAY, 8 & 9—BS, MS, Ph.D/EE, Ph. ME/Ch. Collins Radio Co., Burbank, Calif. M. L. Doelz and Francis Moseley.
- THURSDAY & FRIDAY, 8 & 9—Bell Aircraft, Buffalo, New York. Bruce Foster. BS, MS, Ph.D/Ae, ME, EE, Ma (Theoretical & applied). List of positions to be filled available in Placement Office. Survey, Los Angeles and Norton Air Force Base, San Bernardino, Calif. Sacramento Signal Depot, Sacramento, Calif. Details later.
- The Hydro Lab is interested in BS, up/ME, EE (particularly in need of MS/ME). If interested, apply to Mr. McGraw at Hydro Lab.
- JPL and CWT are also interested in 1951 graduates. Apply direct.
- TUESDAY, MARCH 6
4:15 Swimming Trials, Interhouse, PCC.
- WEDNESDAY, MARCH 7
4:15 Baseball, Varsity vs. East LA-JC at Caltech.
7:30 Geology Club, 155 Arms.

THE SQUARES' CIRCLE

Editor's Note: The staff of the Tech heartily concurs in the opinions expressed below.

To the Editor, CALIFORNIA TECH:

I think that all members of the Student Body should feel considerable satisfaction and appreciation for the job which our Board of Directors has done during the last term of office. To each of them, I wish, along with those whose names appear below, to offer my congratulations for a job well done.

However, I would like to single out one member of that Board whose quality and excellence of performance is something we feel should not be passed over lightly. That man is Frank Ludwig, ASCIT Rally commissioner.

There are many among the Faculty and Student Body who feel that the job of Rally Commissioner is one that is inherently impossible to do well. Frank has, during the last three terms, proved that such is not the case. For a broader interpretation of local and world affairs, for timeliness, for entertainment value, and for general information, our assembly program has been without parallel.

Nor should we under any circumstances forget that the success of our assemblies would not have been possible without the aid of the Rally Committee. To the members of this committee, whose efforts go largely unnoticed and unrewarded, I feel the students owe a real debt of gratitude.

For selfless service to the students, for doing a job to do it well, our hats are off to Frank Ludwig and the Rally committee.

Sincerely,

Kent Stratton, Michael Bader, Leo Baggerly, Bob Crichton, Olly Gardner, Earl Hefner, Dick Libbey

THE SPACE BEAVER

by Al Lewis

THE MOON IS HELL, by John W. Campbell, Jr., Fantasy Press, Reading, Pa. 1951, \$3.00.

The second spaceship to the moon carried 15 men. It carried enough food and water for each man for two years. But it was not equipped to make the return journey; that was to come at the end of the two years when a relief ship would arrive to transport the first moon colony back to Earth. But the relief ship crashed, and the 15 men were faced with the task of wresting a living from an airless, foodless, and waterless world.

How they managed is the tale of "The Moon Is Hell." It is written in the form of a diary kept by one of the members of the expedition and is a chronicle of extraordinary ingenuity. Indeed, the chief flaw of the story seems to be the extraordinary abilities of the members of the expedition, in particular Rice, the superinventor, and Moore, the archchemist. This story is nevertheless an excellent tale of the "gadget" sort.

The second story in the volume is the somewhat shorter science-fiction, "The Elder

Gods," which originally appeared in **Unknown**.

Book Honored

Another Fantasy Press book, "The Cometeers," by Jack Williamson, was recently judged the most attractive book published in the United States in the month of December. The award was made on the basis of typography, layout, artwork (Cartier), and over-all appearance.

Ray Bradbury

Tonight at 8:30 Ray Bradbury will be at the meeting of the Los Angeles Science Fantasy Society to autograph copies of his new book, "The Illustrated Man," which has just been released by Doubleday.

The book consists of a number of previously published short stories and novelettes, bound together by a nebulous thread consisting of the tattoos on the body of the illustrated man, each of which relates a segment of the future.

Anyone who would like to meet Mr. Bradbury and hear a few anecdotes is invited to be at the LASFS tonight. The society meets every Thursday at the Prince Rupert Apts., 1305 Ingraham St., Los Angeles.

all of which came as a surprise."

Likes Iceplant

"I was told that there wasn't much of a campus at Caltech, but I think the campus is very attractive, and reflects the desire of the school to dispense with frills. There is certainly no waste space."

Mr. Fiedler is married to a St. Louis girl, and they are the proud parents of two children.

In addition to its new and rather unique job, the News Bureau will also handle the usual types of publicity on the day to day activities of the faculty, news of student affairs, and other campus activities.

On an Engineer's Education

by Bob Belt

I studied calculus, trigonometry, And every sort of advanced geometry—

In short, every kind of a course mathematic Including mechanics, dynamic and static.

Over hydraulics I burned late oil, Physics and chemistry made me toil.

The Lord only knows what other stuff; And every single bit of it tough.

So, now I'm a registered engineer, Do you wonder I find it a little queer

That the knowledge I need, as a general rule, Is the stuff I learned in a country school?

Reading specifications through, Writing reports till my hands are blue,

Doing simple sums till I'm almost sick— Reading, writing, and arithmetic.

NEW NEWS DIRECTOR

(Continued from Page 1)

lations office has had both its name and its character changed. It is now the **Institute News Bureau**. Dr. DuBridge has said that this change "... reflects the wish of the Institute to establish a center for the transmission of clear, accurate and serious information about science and technology as carried forward on this campus."

Mr. Fiedler's chief aim in his job is to "... do what I can to provide interesting and accurate information for the public on the interesting and significant research done at Caltech. I'm finding that there is a devil of a lot more going on here than I suspected. There is a vast scan of science and technology,

Who Dealt This Mess

by John Rogers

Squeeze Plays

A squeeze play occurs when declarer is able to put one of his opponents in such a position that any sluff by the defender will result in an extra trick for declarer. This week's hand illustrates such a play.

NORTH

S A,7,6,4,3,2
H 9,4
D K,9,5
C 9,6

WEST

S J,9
H 8,6,5
D 7,4
C Q,J,10,7,3,2

EAST

S 10
H K,Q,J,3
D Q,J,10,6,3
C 8,5,4

SOUTH

S K,Q,8,5
H A,10,7,2
D A,8,2
C A,K

BIDDING

N	—	E	S	W
—	—	—	1S	W
2S	P	—	4S	P
4N	P	—	5S	P
5N	P	—	—	—
6S	P	—	P	P

Bidding

The bidding illustrates the use of the Blackwood 4-5 no-trump slam convention. South's reply to four no-trump indicates three aces, and to five no-trump, he indicates two kings.

The Play

The opening lead will probably be the queen of clubs. South takes this trick in his hand and finds that, at first glance, he appears to have one heart and one diamond loser. The only possible way to get rid of one of these losers is to try a squeeze play, which will work only if all of the high diamonds and hearts are in East's hand.

South draws trump, and then leads the two of hearts from his hand. Since there is no way for South to make all the tricks, he must let the defense have their one trick as early as possible. The return lead is the king of hearts, which South takes with his ace. South now leads his last club, enters dummy, and leads all but one of his trumps. The situation now is:

NORTH

S 7
H —
D K,9,5
C —

WEST

S —
H 8
D 7
C J,10

EAST

S —
H Q
D Q,J,10
C —

SOUTH

S —
H 10
D A,8,2
C —



CAMPUS BREWINS

"Oh, neat!" the sad-eyed boy exclaimed. —Hoganberry Pie Journal.

Forsaking our Hypertweed for more commodious garb last Saturday night we journeyed to the bistro of one Emmet Kadletz at the sylvan Mountain Oaks. Mistaking a noisy party upstairs for a Gene Krupa concert we wandered our way into a smoke-filled den on the lower level, brushing aside as we did several little snappers laden with creamy-white mugs.

Queries as to "Has the crew race come off yet?" soon showed us our mistake, however, and we climbed the weary SAE-strewn steps to the place above in time to see the end of what seems to have been the longest heroin jag this side of the County Courthouse.

With Brew 102 well in hand and the beat of rhythmic bongos in their heads a foottapping crowd composed of Blacker, Dabney, Throop, and GKT were wending careful ways to the horsehair sofas.

The Vice Squad et al

The night's events were pointed with bits of unusual notice, not the least interesting of which was the agent of the local constabulary who became versed as to the intricacies of Maier pumping under the excellent tutelage of Messrs. Chamer and Dickenson and who later was seen officiating but vociferously at the flamer contest.

It should be mentioned that this contest seemed more attuned to the "I can burn more of me than you" theme than to the delicate art of salamander sipping... followers of Mene-laus take note.

Notable by his presence at this affair was the new Dabney Prexy Don Shreve with a tall blond of Claremont origin. Jess "mind if I dance several dances with your date?" was doing just this.

The Long Ride Home

Note should also be made of

At this point, the lead of another spade forces East to give up either his heart or his diamond stopper. Whichever one East stuffs, South will win the rest of the tricks.

those more willing to drive than dance: Kurland, Royce, Michaelson, Martel, Brown, Goerke, Hedrick, Thomas, Stockebrand: each of whom managed to squire two o'clocks from the Claremont (Home of Hadacol) farms. Some mention was made of the difficulty of Hedrick in getting the Browning desk clerk to call his date, but we are wary of enlarging upon this subject.

Sources & Sinks

Most impressive moment of the evening came as a green-coated team of Dabney crew members marched in to line up alongside the naked Blacker team. They went on to win in the record-setting time of a scant 39.2 seconds while Muhlberger of Throop sampled his allotted portion in more epicurean fashion.

Staunch Hal Woody claims he would have been there, had he known there would have been cards and chips. In the flammers likewise, Throop was aced by Blacker. The former's excuse was piddling: Walt Pfeiffer, having been dry all week (item lacking in verisimilitude) simply got too greedy for that last drop of vodka. A good man in a pinch, but he done pinched too hard.

Frenchy

Ricketts' social highlight of second term, the annual Apache Dance, where the Rowdies (and members of the other Four houses) revel in the gay atmosphere of a dark French cabaret with their seductive femmes, was as usual a tremendous success.

Prominent among the patrons was the newly elected ASCIT Prexy Hanna with Lois (everybody knows Lois), who won a bet with members of the house. Chaperoning the orgy were Teddy and Ollie Gardner, most appropriately attired for the spirit

The 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 Telephone: SYcamore 6-7121 Ext. 180

Bob Kurland, Editor

EDITORIAL STAFF

Managing Editor.....Budd LeTourneau

News Editor.....Duane Marshall

Sports Editor.....Jesse Weil

Feature Editor.....Bill Whitney

Copy Chief.....Chuck Benjamin

News Staff.....Tony Malanoski, Al Jackson, Jim Crosby, Don Tierney, Frank Hester, Mike Mecherkoff

Sports Staff.....Pete Mason, Thorne Butler, Sam Vodopia, Nick Nicholson, Ray Greuter

Copy Staff.....Ron Ratney, Paul Helfrey, Tom Connolly, Jim Wilson, Dale Burger

Special Writers.....Bob Cobb, Bill Whitney, John Rogers, Stan Groner, George Abell

Photographers.....Ed Bryan, Bob Spencer

BUSINESS STAFF

Business Manager.....Charlie Steese

Circulation Manager.....Dick White

FACTORY ADVISER

Prof. G. R. MacMinn

of the evening.

A Matter of Form

Unrecognizable among the Occidental Set were blondes gone brunette as well as a blond gone red-head. Big Blue Buick McCormick came through with a luscious specimen from the Playhouse attired in form-fitting black tights. In sharp contrast with the slowly moving forms was "Moose" Henderson and date, whose gyrating jitterbugging left a wake of prostrate bodies. Indistinguishable in the inky blackness of the bistro were Ernesto Weber and his blonde Malu.

Interesting variation on the mood of the evening was provided by Crudite Sereno, who was seen shooting craps with his date. Truly international atmosphere was provided by the imported Trio from Phleming, Kidder, Libby, and Pauling.

Noticeably absent were Dzen-dolet and Enslow, whose mysterious disappearance is yet unexplained. Aside from the fact that the band played slow at nine and fast at 12:30 everyone enjoyed the affair tremendously.

Serving you with a smile

Van de Kamp's
NEW COFFEE SHOP
COLORADO AT BONNIE

JEWELER
American and Swiss Watches
Watch, Clock and Jewelry Repairing
Selection of Jewelry
BINLEY'S
JEWELRY STORE
885 E. Colorado St.
SY. 3-1853

First choice for Comfort! ARROW SHORTS

Arrows never ride, bunch, or creep up on you. They're tailored for perfect fit, extra comfort, with contoured seat panel, pleated crotch, and no irritating center seam. Sanforized-labeled fabrics (can't shrink more than 1%)... your choice of patterns and colors. See them today.

Arrow Shorts: all popular styles \$1.45 up
Arrow T-Shirts \$1.25 up
Arrow Athletic Shirts \$1

HOTALING'S
921 EAST COLORADO ST.
Free Parking Rear of Store

FOR ARROW UNIVERSITY STYLES

If you're a man who likes his comfort, then you'll always have the best seat in the house with Arrow Shorts. They're full cut for comfort... roomy. No irritating center seam... comfortable in any position. labeled. See them today!

ARROW SHIRTS & TIES
UNDERWEAR • HANDKERCHIEFS • SPORTS SHIRTS

Students and Faculty you are invited to

BALLROOM DANCE EXHIBITION

FREE

This Sunday Evening March 4, 7:30-9:30 p.m.

Exhibition at the **Steimle Dance Studios**
18 1/2 West Colorado
Free Parking Next Door
Sy. 3-8227

For your entertainment we will demonstrate over 100 popular ballroom dance steps of the Rhumba - Waltz - Samba - Mambo - Tango - Fox Trot New Yorker - Charleston (absolutely no obligation)

Bulldogs Whip Beaver Tennismen; Chapman Up

Ed Eylar Takes Only Caltech Win

Varsity tennismen will play Chapman at Chapman next Saturday, March 3. This will be the last practice match this term.

Decided Trouncing
Redlands proved to be too much for Caltech's tennis squad by giving them a thorough licking to the tune of 8-1. Redlands managed to get only the third single sand doubles from S.C. last Thursday. S.C. is considered by most coaches to be the potential number one team of the nation. The following scores show how far Caltech is from such a ranking. Singles:

- Dave Martin (R) def. Jack Martin (C), 6-1, 6-2.
- Monte Meyers (R) def. Palmer Smith (C), 6-2, 8-6.
- Ronald Clemes (R) def. Rodger Baier (C), 6-1, 6-0.
- Don Williams (R) def. Burke Welch (C), 8-6, 6-0.
- Bill Walcher (R) def. Jim LaFleur (C), 6-2, 6-1.
- Ed Eylar (C) def. Bob Parker (R), 6-4, 6-4.
- Doubles: Clemes-Meyers (R) def. Martin-Smith (C), 6-1, 6-3.
- Martin-Williams (R) def. Baier-Welch (C), 6-2, 6-0.
- Walcher-Parker (R) def. Eylar-Emery (C), 6-2, 6-2.

BUTTIN' IN

—by Butler

By virtue of Chapman's win over Oxy last week-end, Whittier has clinched the league title in basketball. Of course, if the Bulldogs can knock off the Poets and Oxy trips up Redlands, there would exist a tie between Oxy and Whittier. But it seems very unlikely that the Poet five will fall before the third place Bulldogs.

Oxy Potent
This coming Saturday we will all have an opportunity to witness Payton Jordan's powerful Oxy track squad open their '51 season. The event is the conference relays, which will feature some of the better distance men in the nation. If Jordan can turn out another cracker-jack squad this year, there are rumors that he will be number one for the Olympic coaching job in 1952. There is no doubt that his success has been phenomenal; but from Oxy to the Olympics is a mighty big step. Besides the casaba team the most dejected group of athletes at Tech are the skiers. The dismal snow condition has cancelled all intercollegiate ski meets this year. From all angles

Beaver Sports

Mermen Hit Conference Rain and Cold Relays at Oxy

A week ago Monday swimming practice started up at PCC for the varsity, frosh, and inter-house men. Since then the rain and cold weather have kept all but the hardiest of them away. Those who have braved the elements, however, have found that swimming in the rain can be quite pleasant as long as the water is warm.

Don Garman, water-polo coach of last fall, is back again to coach the varsity and frosh swimmers and divers. Prospects for the coming season are fairly good, with only one man graduated from last year's second place team. Several good men are up from the frosh and will lend a lot of support. The first scheduled meet is a practice one with Muir Friday, March 9.

Tech would have sported a potent team, but then no snow. Pete Price, the Ski Clubs shoos-ing Prexy, should have given Irving Krick the word.

Conference Relays at Oxy

Tech's track team just can't seem to get a start this year. The two tries for a relays meet with Riverside JC, rain came down in buckets both times. Bert La Brucherie thus doesn't get much of a chance to see how his team will stack up for the Conference Relays this Saturday over at Oxy.

Medley Record
While there doesn't seem to be much question as to who will win, there is a lot of debate about the rest of the places, as well as whether Oxy can break various relay records. Particularly in the distance medley relay, Payton Jordan has a strong team consisting of Ruprecht, Cotrel, Barnes, and McMillan in that order for the 440, 880, 1320, and mile. Barnes, you may remember, ran the third best 880 in the world last year in 1:51.1, and likes the longer distance even better. McMillan, on the other hand, was a little more out of it, (Continued on Page 4)

Poets Topple Tech; Sagehens Last Game

Whittier Cinches Share of First Place at Beavers Sad Expense

Tomorrow night at 8 o'clock the Beaver bucketmen will endeavor to finish the season with a win over Pomona out in the Sagehen gym. The Beavers have vastly improved since they lost to the Hens by only two points several weeks ago, and they are really out for blood. This game, the last for veterans Butler, Ser-

eno, and Libbey, promises to be exciting. Last week the Engineers more than met their match at Whittier. Although the Techmen did their best to catch the fast-moving Poets, they just couldn't put the ball through the hoop often enough.

Frosh Sports Roundup

by Nick Nicholson

This year's basketball season comes to an end Friday when the frosh meet Pomona at Pomona, game time 6:30. It should be one of the best games of the year, as Pomona, conquerors of mighty Whittier, lost their first match to Tech's frosh and will be out for revenge.

Whittier Wins
Whittier's frosh basketballers took the Beaverbabes for a ride Friday night to the tune of 82-46. The Jr. Poets, a greatly improved team, scored freely and at times had the tired Techmen dazzled with their brilliant passing attack. Halftime score was 42-18. Anson potted 24 for high, while Johnson got 12 and Plambeck 10 to complete Tech's scoring.

Tennis Men Drop One
Saturday afternoon saw the frosh netters playing Redlands in their first appearance. Redlands churned out a 7-2 win with little trouble, Tech's only victories coming in one singles (Continued on Page 4)

Fast Start
Whittier got off to a 7-0 lead before Thorne Butler tipped one in for Caltech. The Poets set an early fast pace and were leading 8-3 at the first time out. Sereno had already collected three fouls, thus handicapping himself for the rest of the time he played. Patapoff and Michaelson closed the gap a little, but not for long.

Tech was unable to control either backboard, and Whittier scored some easy ones when their forwards broke down court behind the Beaver guards. Gray and Patapoff brought the score to 24-20 on drive-ins. Then Whittier went wild shortly before the half ended 37-23, their lead.

Butler Hot
Gee and Patapoff kept Tech in the game in the second half on their long one-handed push shots. Later, Butler collected eight Beaver points in succession. Three came on a basket and free throw after he was fouled while going in for a lay-up; Gray had set him up on a fast break by expertly bounce-passing back to him.

Poet Reserves Good
Whittier's reserves were no (Continued on Page 4)

Campus Interviews on Cigarette Tests

Number 14...THE BEAVER



"How eager can they get?"

For once in his life, our fervent friend admits that eagerness can be over-done! He's alluding, of course, to all these quick-trick cigarette tests—the ones that ask you to decide on cigarette mildness after just one puff, one sniff, one inhale or one exhale! When the chips are down, he realizes cigarette mildness can't be judged in a hurry. That's why he made . . .

The sensible test . . . the 30-Day Camel Mildness Test which asks you to try Camels as your steady smoke—on a pack after pack, day after day basis. No snap judgments needed. After you've enjoyed Camels—and only Camels—for 30 days in your "T-Zone" (T for Throat, T for Taste), we believe you'll know why . . .

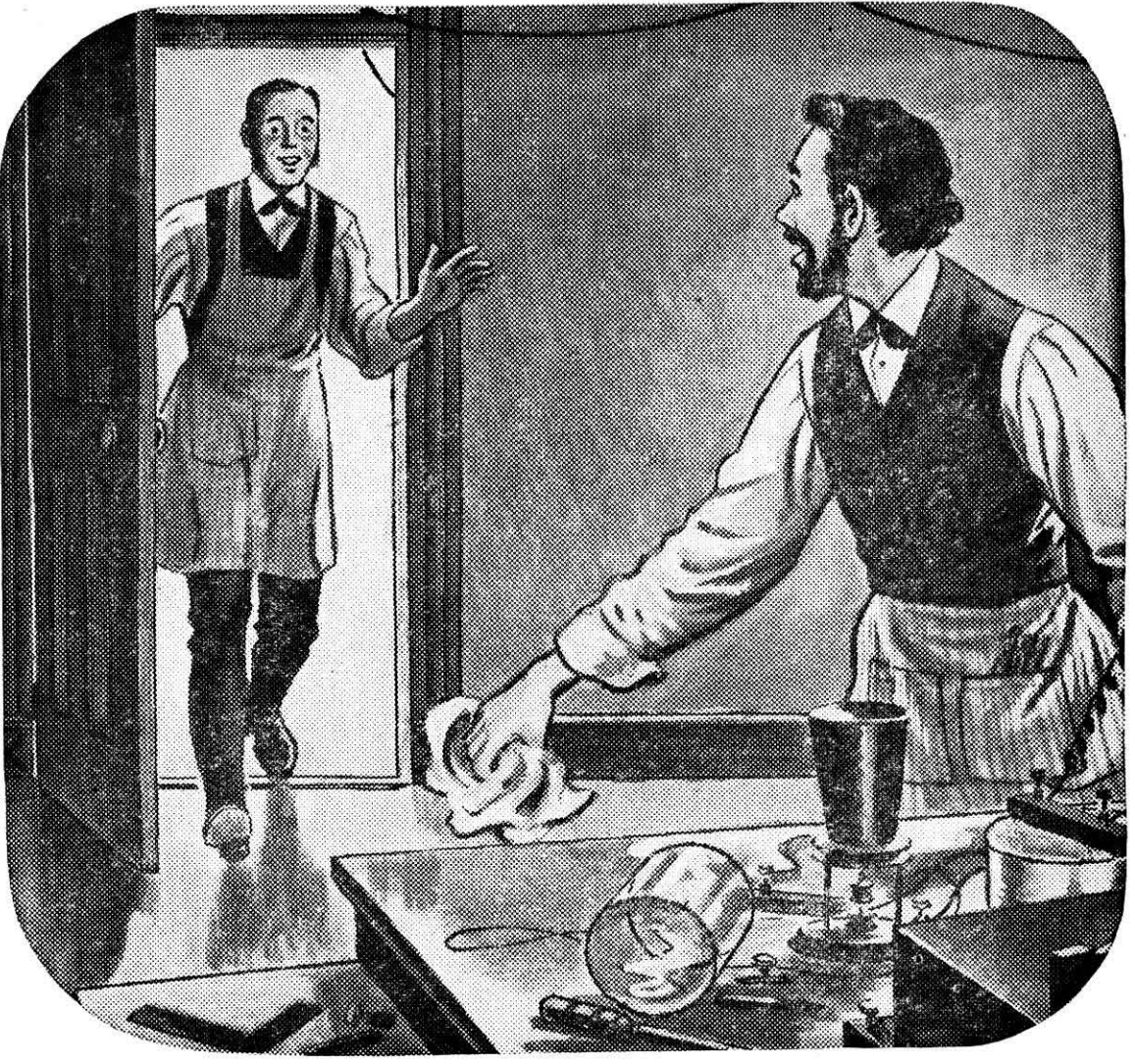


More People Smoke Camels than any other cigarette!

**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.

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

**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



"Mr. Bell, I heard every word you said—distinctly!"

75 YEARS OF TELEPHONE SERVICE

On the evening of March 10, 1876, on the top floor of a boarding house in Boston, the telephone carried its first intelligible sentence. It seemed like a miracle to our grandparents and great-grandparents. Yet today, the telephone is a part of our everyday living. And that is the real miracle—the fact that the telephone has come to mean so much to so many people in so many ways.

The telephone is an indispensable tool of business and government—to-day's tremendous job of production and defense could not be carried on without it. It serves in minor emergencies and great ones. It helps maintain family and community ties. And it keeps right on growing and improving. Never in the history of the telephone has it been so valuable to so many people as right now.

BELL TELEPHONE SYSTEM



Apache Dance Happens Again

by Bill Parker

Saturday night the Rowdies converged on the den of the Apache via a Parisian Sewer which was thoughtfully provided by B & G. It is rumored that one of the luckier members of Ricketts (one C. V. plus date) arrived before the sewers were illuminated and unfortunately (?) got lost in them.

Gory Obstacles

All agreed that the dance was worth braving the various obstacles for. Good music was provided by Eddie Charles and his orchestra, and the lighting was continuously and instantly variable, in accordance with the best Ricketts traditions (pertaining to dances).

The "Den of the Apache" was fixed to resemble the interior of a boarded-up cafe, with booths which were not designed for eating surrounding the dance floor.

Up the Laundry Chute

The entrance, which started in the Engineering Building, went through the steam tunnel to the basement, and up through the laundry chute to a tunnel constructed in the dining room, was decorated appropriately with silent and awfully still tributes to the efficiency of Sam Vodopia's abilities as a bouncer. The dance terminated in the murder of the house's social chairman, so a satisfactory evening was had by everyone who attended.

Fleming Skis, Woos, at Arrowhead Party

The annual Fleming snow party last week was, as usual, a huge success. The lucky troops who attended spent two nights at luxurious Timberlane Cottages, half a mile from Lake Arrowhead village. Happily, the date coincided with a six inch snowfall, the first in a month. The skiing was good at Green Lake Snow Bowl and several of the rope tows along the highway to Snow Valley did a rushing business.

"Straitlaced" Montgomery and "Hardnose" Pardee and their wives supervised the morals of everyone and cooked all the meals. Breakfasts consisted of bacon and eggs and the usual accompaniment, and on Saturday night there were steaks for all. Al Haire's eyecatching discovery of his date's left hook was shocking, but quoting one who enjoyed the excursion, "If I had the time and money I'd do it every weekend."

Field Trip Friday For Chem Group

The Caltech American Chemical Society student chapter will have a field trip Friday afternoon, March 2, to the California Flaxseed Corp., which manufactures varnishes and resins, and the National Lead Co., in Vernon.

Meet at Tourney

They will assemble in Tournament Park at 1:00 p.m. All interested individuals should sign up on the sheet on the Gates bulletin board before Thursday noon regarding transportation. Old clothes should be worn on the trip.

Joint Meeting

A joint meeting of the Los Angeles area ACS Chapters is tentatively set for Friday, May 4, at UCLA.

CONFERENCE RELAYS

(Continued from Page 3)

running only the fourth best mile in the world last year in 4:07.8. So maybe the SCIC will have the medley relay record for its very own.

ASB Cards Admit

Meet begins at 2:00 p.m., so grab your student body card and hop over to usher in the new track season.

POETS TOPPLE TECH

(Continued from Page 3)

less tough, and Tech was unable to gain on them. After Sereno and Patapoff fouled out, Coach Shy put in his reserves, who finished the game. Gray hit on a couple, and Gee made his third long one for the night. The Poet first string came back in for the end. Final score: Whittier 71; Caltech 52.

Lineups:

Caltech (52)	Whittier (71)
Gray (9)	Faught (16)
Michaelson (8)	Craven (11)
Butler (16)	Eck (21)
Sereno (1)	Konzelman (16)
Patapoff (11)	Haskins (6)
Halftime—Whittier, 35; Caltech 22.	
Scoring subs: Caltech—Tautz, 1; Gee, 6. Whittier—Hughes, 2; Mason, 7; Winchester, 2.	

SHARP SPEAKS

(Continued from Page 1)

Women Invited

This term as well as last, the members are invited to bring their wives, fiancés, or other feminine guests. "Last time it was just an experiment," said Bill Whitney, president of the Caltech chapter, "but it succeeded so well that the members were all for it again this term." In previous years, attendance at the banquets has been purely masculine.

Pledge Play

One of the highlights of the evening's entertainment will be the presentation of the pledge play, written, directed and produced entirely by the initiates. This play has become part of the established tradition of the Caltech banquets.

Formal Initiation

Preceding the banquet, the formal initiation of the members into Tau Beta Pi will take place in Culbertson Hall at five o'clock. The banquet will begin at seven thirty; tickets may be purchased at the door for approximately \$2.75. Pierre's is located at 2295 Huntington Drive, in San Marino.

ENGINEERS' EXAM

(Continued from Page 1)

dents may now file an application without a Registrar's certification of graduation. After graduation the Registrar's office will upon request send to the Board of Registration for Civil and Professional Engineers the proper certification.

Application must be typewritten on the form furnished by the Board acknowledge before a Notary Public, accompanied by the application fee of \$5, and accompanied by a photograph of the applicant.

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

Religious Movie Initiates Series

Last Sunday, Feb. 25, the Caltech Newman Club presented a motion picture on the life of Christ called "Upon This Rock." The story was told as seen through the eyes of St. Peter, one of the disciples. The picture, a full-length feature, was filmed in color.

The response to this picture has encouraged the Newman Club to plan on sponsoring other films in the near future. The next picture will be announced a few weeks before it is shown.

EGAD!

A Negro preacher asked his congregation: "What is the best thing in life?"

Deacon Green arose and said it was fried chicken. Then he spoke glowingly for several minutes on the virtues of the same.

Deacon Brown then arose and said that, while Deacon Green had a mighty good subject, the audience would agree that watermelon was the very best thing in life. He followed this statement by a speech which lasted some time.

Sister Mary, in the rear of the church, slowly raised to her feet. "Parson," she said, "you better stop this argument before some nasty-minded rascal gets up and tells the truth."

She was only a florist's daughter, but she was a dandelion in the grass.

Caltech Fellowship To Hear Lecturer

"Christ's Resurrection and Modern Man" is the theme of two addresses and question periods to be led here on Monday and Tuesday, March 5 and 6, by the Rev. Carl F. H. Henry, Th.D., Ph.D., Professor of Christian Philosophy at Fuller Theological Seminary.

Dr. Henry, who recently addressed the Upper Class Luncheon Club on "What Evangelical Christianity Has to Say," will be sponsored at these meetings by the Caltech Christian Fellowship.

Monday at 11 a.m., modern attacks upon the Resurrection will be considered, and at 7:30 p.m. Tuesday, the implications of the Resurrection for modern man will be taken up. Both sessions will be held in Dabney lounge.

Author of numerous books including "Remaking of the Modern Man," "The Protestant Dilemma," "Notes of the Doctrine of God," and "Fifty Years of Protestant Theology," Dr. Henry was formerly head of the theology department at the Northern Baptist Theological Seminary in Chicago. He has been a guest lecturer at many academic institutions, and a member of religious emphasis teams on several campuses. He is a frequent contributor to religious periodicals.

Among the campuses on which Dr. Henry has addressed student groups are Northwestern, Chicago, Illinois, Michigan, Oregon and USC.

FROSH SPORTS ROUNDUP

(Continued from Page 3)

match and a forfeit doubles. Closest score was the 2-6, 6-2, 4-6 loss of Bruce Kaiser to his opponent.

Scores were:

Middleton (R) d Davis (T) 6-1, 6-1

Wright (R) d Potter (T) 6-2, 6-3

Bottger (R) d Patraw (T) 6-3, 6-0

Anderson (R) d Kaiser (T) 6-2, 2-6, 6-4

Denny (R) d Sargent (T) 6-4, 6-4

Enright (T) d Stevenson (R) 6-2, 6-4

Middleton-Wright d Davis-Patraw 6-3, 6-2

Bottger-Denny d Potter-Sargent 6-2, 6-1

Enright-Clark d Anderson-Stevenson, default

Relays Coming Up

The frosh tracksters take off for Oxy Saturday for the Conference Relays, due to start at 1:30. Oxy can be expected to win, as per usual, but it'll be interesting to see how LaBrucherie's men shape up against the rest of the crowd.

Baseball practice got under way this week under the tutelage of Coach Leonard Arnoff. As of the present, there seems to be more room for good players, so don't be hesitant about coming out. No games are scheduled till the third term, but that leaves only about three weeks of practice.



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!

YOUR COLLEGE SHOP
—DRESS WEAR—
—SPORTSWEAR—
—CASUAL CLOTHES—



881 E. Colorado at Lake

Fowler's Open Fri. Nights

"Men's Distinctive Fashions"

Caltech Pharmacy
COURTESY . . . SERVICE
SATISFACTION
Dependable Registered Pharmacists
Prompt Free Motor Delivery
882 East California Street
SYcamore 2-2101
Pasadena, California

Your Nearest Camera Shop
ALVIN'S PHOTO SHOP
Everything for the Photographer
LEICA, ZEISS, BELL and HOWELL, EASTMAN
914 East California

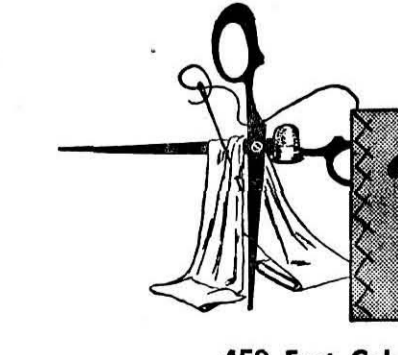
YOUR COLLEGE RECORD SHOP
Headquarters for the best selections in
RECORDS - RADIOS
TELEVISION
L. C. TAYLOR CO.
145 N. Lake Sy. 2-5107
Open Evenings



"... And then I remembered how wonderful Manhattans taste when made with Angostura*."

ANGOSTURA
AROMATIC BITTERS
MAKES BETTER DRINKS

*P.S. Angostura gives the same pungent perfection to whiskey-on-the-rocks as to Manhattans and Old Fashioneds. Try it!



459 East Colorado, Pasadena

Be Happy Go Lucky!

The guys in my fraternity have girls that really rate, But Lucky Strike is one old flame That goes on every date!

Bob Buzzell
George Washington University

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!

L.S./M.F.T. - Lucky Strike Means Fine Tobacco

dash among the crucibles, Pursuing chemistry One formula I know at least, It's L.S./M.F.T.!

Miller G. Stepanovich
University of New Mexico

Students heed these words of wit On campus, coast to coast— You'll find that Luckies are on top, It's not an idle boast.

John Washburn
University of Buffalo