

Conley and Trapnell running for student body president

Phil Conley and Fritz Trapnell were nominated for the office of ASCIT president this morning at the 11 a.m. nominations assembly in Culbertson. Lyman Fretwell and Howard Berg were nominated for the office of vice-president.

These men and the others listed below will seek election on Feb. 24 when Caltech students choose the student body officers who will take over at the end of this term.

In the races for the other student body officers, Rube Moulton, Tom Bergeman, Bill McDonald, and Ray Orbach were nominated for the office of secretary, and John Young and Bob Gelber were placed in nomination for the office of treasurer. Dick Morse and Curt Schulze will run for first representative, with Clarke Rees, Dick Ashby, Andy Perga, and Gerry Lawrence running for second representative.

Arne Kalm, Jim Mebust, Reed Saunders, and Jim Workman are candidates for the office of athletic manager, and Craig Elliott and Jon Harford for publicity manager. Frank Kofsky and Howard Hilton are running for rally commissioner.

Dick Hundley and Marty Tangora will run for co-editors of the California Tech, with John Bailey running for Tech business manager. Don Nierlich is running for Tech business manager.

(Continued on Page 4)

Alumni pool finally opens

Monday of this week saw the opening of the new Alumni Swimming Pool. H. Z. Musselman, director of athletics, has announced a schedule of classes and recreational swimming for the remainder of this term. Students are required to sign up for the classes and attend regularly.

The schedule will include the following periods each day Monday through Friday: recreational swimming, 12:15 to 2:00 p.m.; beginners' class, 2:00 to 3:00 p.m.; and advanced class, 3:00 to 4:00 p.m. Today and Friday there will be a beginners' class from 4:00 to 5:00 p.m. and an advanced class from 5:00 to 6:00 p.m.

(Continued on Page 4)

Pin-ups replace course schedule in a rare copy of this year's catalogue

by Marty Tangora

Typographical errors can sometimes be pretty funny. But the boys who print the Institute Catalogue have pulled a boner which is one of the funniest things to happen on this campus in years.

The super-typo turned up last Wednesday. A prospective transfer student came into the deans' office with an ordinary-looking copy of the catalogue, which had been mailed out to him along with the hundreds of others that are sent out from week to week.

He wanted to know what the engineering option was, he complained, and his Spanish wasn't very good.

It turned out that 32 inside pages of his copy of the catalogue had been omitted, and in their place—

On page 177, an advertisement for "Pepe el Toro," a prize-fight-

Tech Y office to move to new location late this month

Late this month the Caltech Y will move its headquarters from lower Dabney to Building T-2. The Y will occupy the space left vacant when the PE department moved to the gym. According to acting Y secretary Beach Langston, the new location will provide more office and lounge space and will also be closer to the students who are served by the Y.

Y Fireside to be at home of Dr. Kyropoulos

Dr. Peter Kyropoulos, assistant professor of mechanical engineering at Caltech, will be host to this Sunday's Y Faculty Fireside. The Fireside, which will last from 7:30 to 9:30 p.m., will be held in the home of Dr. and Mrs. Kyropoulos at 1938 Mill Road in South Pasadena.

In addition to his many responsibilities at Tech, Dr. Kyropoulos is in charge of organizing the annual Mobilgas economy run and is a consultant for research division of General Motors. He came to Tech as an instructor in 1943. Dr. Kyropoulos received his BS at the University of Göttingen in 1938 and his MS and PhD at Caltech in 1938 and 1948, respectively.

Supply and demand

Men who previously signed up for the Fireside have been contacted by the Y committee; since only about 20 will be allowed to go, some may have to be turned away, 45 having signed up. Anyone wishing more information about this Fireside should see one of the committee members.

Y Fireside Committeemen are: John Stevens, Blacker (Chairman); Walt Peterson, Dabney; Jim Workman, Ricketts; and Herb Rauch, Fleming.

ing movie: "UNA HISTORIA TREMENDA Y APASIONANTE QUE TRAERA LAGRIMAS DE EMOCION A TODOS LOS OJOS!"

On page 180, the logotype of Spanish-language movie magazine, *Cine-Grafica*, August 1954, Volume VI, Number 68.

On page X plus 13, photos of string orchestras smiling toothily out from under their sombreros and mustaches, leering suggestively at buxom Latin actresses with flowers in their hair.

Two pages later, a full-page fashion ad, and later yet, shampoo ads.

And in the center spread, a huge picture of Senorita Mexico 1954, attired in crown and bathing suit.

Funny? Dean Jones won't let it out of his sight for a minute; he's afraid some sneak thief will make off with it, for it certainly ranks with the greatest collect-

Second annual Interhouse Sing to be held next Monday

"Cindy" is chosen as contest song; houses to give extra entertainment

Four student houses will vie for the Interhouse Sing trophy at the second annual Interhouse Sing, which will be held next Monday in the gym at 7:30. The contest will feature the contest song, "Cindy," additional presentations by the competing houses and the combined voices of the houses singing "Gaudeamus Igitur," and the Alma Mater under the direction of Mr. Olaf Frodsham.

Chicago prof to speak for Tech YMCA

Dr. William N. Hawley, Dean of Students and Acting Dean of the Divinity School of the University of Chicago will be a guest of the Caltech YMCA, Tuesday and Wednesday, Feb. 15 and 16.

Dr. Hawley was a speaker at the YMCA Asilomar and Geneva Conferences. While at Tech he will make his talks to the Y under-graduate and graduate luncheon clubs, and deliver an evening speech. He will meet with the Caltech Y cabinet and be present at teas, which will be held at 4 o'clock in the afternoon at the Y office in Dabney, where he and Caltech students can talk and get to know each other.

It is hoped that Dr. Hawley will meet the students during lunch at one of the houses, but he will eat for the most part at the Athenaeum, where he will be staying.

Dr. Beach Langston, acting secretary of the Caltech Y, states that his evening topic will be "Man's Dilemma, Love or Weakness?", a psychological and social discussion of the strength required and imparted by love.

Caltech is but one of the stopping points for Dr. Hawley who will be in Southern California between February 6 and March 6. He will be welcomed as a guest of the YMCA's of over 14 colleges, among them Pomona, Occidental and UCLA.

Dr. Hawley is a graduate of Ohio Wesleyan and received his MA and BD degrees from the University of Chicago. He is a member of the National Advisory Council of the Student YMCA.

X-ray diffraction discussion Friday

Dr. Gunnar Bergman will discuss "X-ray Diffraction and the Structure of Matter" at this week's Friday evening lecture. The lecture will be, as usual, in 201 Bridge at 7:30 p.m.

Dr. Bergman will explain the use of X-ray diffraction in the study of the structure of gases, liquids, and solids. He will tell of the various ways that scientists study particles the size of atoms.

A graduate of the Royal Institute of Technology in Stockholm, Dr. Bergman received his PhD from Caltech in 1951. He is now an assistant professor of chemistry and mechanical engineering here at Tech.

The new Y office is easily accessible from the student houses and will provide a pleasant setting for Y meetings. Included in the new Y headquarters will be a larger lounge and library, two offices and closet space. Buildings and Grounds is re-vamping the building, and the Caltech Service League will assist in decorating with paint, furniture and pictures for the walls.

Work is now in progress on the building and the move will be completed late this month. No definite plans have been made for decorations or color scheme. The projected floor plan is on display in the present Y office in Dabney Hall.

Y lunch clubs slate speakers

"Supersonic Flight" is the subject of Dr. Clark Millikan's talk at frosh luncheon club next Monday, February 14.

Tuesday Dean William Hawley will speak to the undergraduate luncheon club.

Again on Wednesday, Dean Hawley will speak, this time at the Graduate-Faculty Luncheon Forum and the subject will be "Man's Split Self." "British Foreign Policy" will be the subject of Thursday's Frosh luncheon club and the speaker will be an official from the British consulate in Los Angeles.

ors' items of all time.

How did it happen? Close inspection reveals that the substitution occurred in the binding process. The word "signature" in printing means a number of pages, in this case 32, folded together to be bound as a unit. The current catalogue contains ten signatures, and the seventh—pages 177 to 208—has been replaced by the inside pages of *Cine-Grafica*.

Unique copy

It is amusing to speculate on how many copies like this were sent out to parents, high schools, and other colleges. Unfortunately, it appears that this copy is unique. No others have been turned up so far. Probably the lone back issue of the movie magazine was misplaced onto a pile of signatures which were being rebound, and thus only the one copy was produced, and the

(Continued on Page 6)

All of the houses are planning presentations in addition to "Cindy." Blacker, under Bob Deffeyes, has readied a quartet and a version of "Stout Hearted Men," while Ricketts, led by Lyman Fretwell, will sing "You'll Never Walk Alone." Dabney, whose voices are directed by Ted Johnson, will present a Barber Shop Medley, and Charlie Anderson will lead Fleming in its offering of "A Chorus of Scientists."

Mr. Herbert Grey, owner of the Crown Music Store; Mr. Rex Hogan, choral director of the Mark Keppel High School; and Mr. Richard Kramer, choral director of the William Hart High School have been selected as judges for the contest.

Palms site of Tech formal

ASCIT has rented a night club, The Palms, for this year's formal which will be held on Friday, Feb. 18. Located on the road to Scripps and Pomona, The Palms is about twenty minutes from the Caltech campus on Highway 66.

The theme is "Young at Heart," and the atmosphere will be casual and typical of a night club. Don Ricardo and his 14-piece orchestra will play from 9:30 p.m. to 12:30 a.m. ASCIT members will be admitted to the dance without charge. Beverages will be served from 9:00 p.m., but cannot be purchased without an identification card.

Fancy floor

Made available to Caltech at a special rate, The Palms features a dancing floor the size of Dabney Lounge and enough tables for all couples.

Dark tuxedos or dark blue or charcoal suits with black or dark bow ties are the proper dress. It is requested that no white dinner jackets or four-in-hand ties be worn.

Frosh exchange this Friday night

The first appearance of the Caltech Dance Band will be featured at an exchange sponsored by the freshman class Friday.

The exchange will be held in Dabney Lounge from 8:30 to 12:00 Friday evening, and is open to freshmen only. Dick Baron and Dick Ashby, frosh social chairmen, are making arrangements for the exchange and have invited girls from Westridge, Mayfield, South Pasadena, and Los Angeles High School.

California Tech

Editors-in-Chief—Tom Bergeman and Lyman Fretwell

EDITORIAL STAFF

Reporters at Large—Gordon Reiter, Marty Tangora

News Editor—Dick Hundley

Assistant News Editor—Dick Kirk

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

Feature Editor . . . John Young

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

Sports Editor—Arne Kalm

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

Photographic Staff.....Stuart Bower, 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.

Pendulum-Hot Rivet merger

Pendulum and **Hot Rivet** merge? Ridiculous! At first guffaw the combination of a literary journal and a humor magazine seems as incongruous as the progeny of a dove and a dog.

But on second thought, a **Hot Pendulum**, as we'll temporarily dub the combined feature magazine, warrants another look. Two full-fledged magazines on one small campus does seem like a lot to expect. Merger could relieve the difficulties now facing each publication and combine their resources to produce a top-flight magazine. Although both staffs are currently considering the question, actual merger plans are dangerously bogged down.

The present picture

In the fourth year of publication, Caltech's literary magazine, **Pendulum**, has attracted encouraging campus support; it gets enough student contributions to publish three commendable issues a year and receives funds from the humanities department to pay for it. Right now, this success is overshadowed by a threat of loss or reduction of funds for next year. In addition, **Pendulum** is bothered with a lack of general student appeal, for less than one-fourth of the undergrads subscribe to their own magazine. There appear to be three reasons for this; occasional overemphasis of self-conscious "arty" literature of more interest to the writer than Caltech readers; insufficient material to be highly selective, and lack of direct ASCIT support.

On the other hand, the **Hot Rivet** is just developing from a year-end party by the newspaper staff into a regular magazine with humor on a higher level. Going to print later this term, it now has a going organization, advertiser support, and financial assistance from the ASCIT. But before it can become a successful publication, it will need a larger cadre of contributors, and, more important, articles of broader scope and higher quality than the pilfered corn that fills many college humor magazines. The **Hot Rivet**, as it stands, has potential; in combination with the **Pendulum** it would be outstanding.

The case for merger

These two magazines, for all their different format and function, would both like wider appeal through a similar broad scope. The case for merger seems very strong.

The **Hot Pendulum** could satisfy **Pendulum's** desire for a broader appeal as well as the **Hot Rivet's** desire to be more than the traditional smut and trash.

The **Hot Pendulum** could combine the circulation potentials of each magazine.

ASCIT support, advertisements, and possibly humanities funds could provide the backing for a better publication than otherwise financially permissible.

The **Hot Pendulum** combined staff could get enough material to be selective and its broader appeal would encourage more men to contribute. Two magazines would probably compete for the same writers, anyway.

Opposition to union

On the other side of the picture, there are difficulties in the merger. **Pendulum** has been regarded as a sacred thing capable of arousing literary creativity in Caltech students, a cause worth any price, and even almost any loss of reader appeal. Purists would be quite upset to see this ideal destroyed. We'll counter with our old notion that writing is meant to be read, and argue that the best poetry or prose of any nature can be fit into the **Hot Pendulum**.

Combining the staffs poses an immediate problem that can be worked out with good sense and tolerance from both sides. **Pendulum** can't absorb the **Rivet**; the **Rivet** can't simply absorb the **Pendulum**; the product should be a synthesis and a cooperative effort.

What kind of magazine would combine **Rivet** "humor" and **Pendulum** "literature"? Humor, logically a part of good literature, can go hand in hand with serious work. Magazines like **Esquire** and **The New Yorker** are excellent examples of this sort of thing. Good humor, good stories, poems and essays all being in the **Hot Pendulum**.

Think it over. Can Caltech support two magazines? Wouldn't a merged magazine help solve problems facing both the **Hot Rivet** and the **Pendulum**? Although it may be too late this term, sometime soon, Caltech should be proud to unite behind a single magazine with a broad scope and general appeal.

The World and Tangora

by Julian Tangora

I bet not ten per cent of you guys keep diaries. What a chance you're missing! A guy never realizes all the advantages of keeping a diary until after he's done it for a couple of years.

I am into my third year now and really sold on the idea. I can say anything I please in my diary and not have to worry about what people will think; and it provides escape from reality in the juicy episodes of a more glorious past.

This all depends, of course, on what kind of diary you decide to keep. There are many different types of diaries and it is my mission this week to classify them roughly, so that you will know just what you are getting into. In my infinitely broad experience with diaries I have encountered three main types.

There is the eidetic-memory diary. The guy who keeps one of these only wants a complete detailed record of his past. Just think—any time he needs it, he can find out whether last year's second-term barn dance was at 8:30 or 9:00, when was the last time someone fell over backwards in history class, or when was the last time he went out on a date (if he has been keeping his diary that long).

There is the confessional diary, which is usually equipped with a little lock; in it every intimate detail of love and courtship is torridly pictured. The advantage of this diary is that you can show part of it to a friend to arouse his curiosity, and then not let him see the exciting parts—which is like tearing the good pages out of **Forever Amber**, except that there's no way he can get another copy of your diary.

Most Techmen will probably like the for-my-public diary (naturally this is the kind I have). All statements in this diary are designed to appeal to readers of your autobiography after you are famous and beloved by the whole world. You wouldn't deprive posterity of the little crises in your social and intellectual development, now would you?

You have the clue; go to it. I'll be glad to give you pointers any time.

If you think diaries sound childish or sentimental, I seriously advise you to try one and find out. You have three types to choose from; I'll be happy to give you pointers any time you need help.



Campus Brewins

If one man says, "Thou are a donkey," do not mind; if two speak thus, purchase a saddle for thyself.

—Berehist Rabba 45.30

Jockey

With **Hearts and Flowers** as a background dirge, the Beak has taken Rack of the Week trophy from Glasel and has presented it to Rats A. Johnson. This would-be Oregon cowhand galloped his steed full race into a barb wire fence during the Snow Party festivities. Newton's laws, as usual prevailed, and Johnson, having no external force except wind resistance to slow him, was propelled through the air with great velocity and ground to a rather painful pulp in the dust.

Female Phobia

Sunny Nelson, relentless pursuer of foes on the basketball court is currently being relentlessly pursued by that nemesis of physical conditioning, the female.

Although the young lady is passionately warm for Sunny's body, he begs off taking her to drive-in theaters in favor of the more conservative variety. To top this off Sunny's P.S. of 84 has failed to slip a single point even to the act of holding her

hand. The Beak looks forward to a quick toppling of this pillar of purity.

Poor John

Set upon one of the more spiny shafts of the year is young John Weisner, victim of the wiles of a comely young lass from I.H.C. After fending off many attempts of John to take her home, she prevailed upon Tangora to escort her to her car where she sped away into the night. It is truly amazing to what lengths females will go.

Crudball

Flash! An epidemic of crudball is sweeping Blacker House. With the coming of the basketball season all snakes turn toward basketball's small-court variant, crudball, an ingenious midnight pastime in which transoms take the place of baskets and tennis balls metamorphose into basketballs. Archgooff Goldenberg and Archsnake McCune current alley champions in this time-waster, have reportedly issued a challenge to the house at large. The issue will be decided on the bodies of the contestants in the Room 16 amphitheater. The winner of this all-comers challenge contest will represent the Unit.

(Continued on Page 3)

For the special attention of

Electrical Engineers and Physicists

RESEARCH AND DEVELOPMENT LABORATORIES

HUGHES

Culver City,
Los Angeles
County,
California

announce openings on their Staffs
for those receiving B.S., M.S. or Ph.D.
degrees during the coming year.

on FEBRUARY 14, 15

MEMBERS OF THE HUGHES ENGINEERING STAFF
WILL CONDUCT PERSONAL INTERVIEWS
ON YOUR CAMPUS. CONSULT YOUR SCHOOL
PLACEMENT OFFICE NOW FOR APPOINTMENT.

Students Graduating in Math, Engineering and the Sciences

Interested in the rapidly growing field of scientific computing

The RAND Corporation

is expanding its Numerical Analysis Department. Graduates who show aptitude will be trained in the use of our IBM 701, 704, and other automatic, high speed computers. RAND is a growing research organization with established reputation; excellent working conditions, and liberal employee benefits.

Contact our personnel office. Interviews will be arranged on campus or at our Santa Monica office.

The RAND Corporation

1700 Main Street
Santa Monica, California

Attn: Personnel Office
Telephone: EXbrook 4-0251

For work in

RESEARCH & DEVELOPMENT

Airborne Radar Systems
Servomechanisms
Computers
Systems Analysis
Information Theory
Automatic Controls
Physical Analysis
Microwave Tubes
Pulse Circuitry
Guided Missile Systems
Ground Radar Systems
Solid-State Physics
Transistor
Test Equipment Design
Miniaturization
Electromechanical Design
Gyros
Hydraulics
Subminiaturization
Mechanical Design
Instrumentation
Telemetry
Antennas
Wave Guides

Openings are in these fields:

For work in

ENGINEERING

Technical Writing
Missile Field Engineering
Engineering Administration
Radar & Missile Instruction
Radar Field Engineering
Patent Law

Caltech math prof relaxes by creating weird stories

by Bob Deffeyes

Science-fiction snakes beware! You may have been reading propaganda put on by the Caltech math department. One of our professors has been writing under the name of John Taine. In reality, he is a number-theory specialist named Eric Temple Bell, who became professor emeritus two years ago upon retiring from his regular teaching duties.

The name of John Taine was taken several years ago to avoid the wrath of fellow staff members at the school where he was then employed. Since then the double identity has sometimes caused confusion. When Dr.

development of the A-bomb." The connection was less obvious to Dr. Bell, who had written it in 1918.

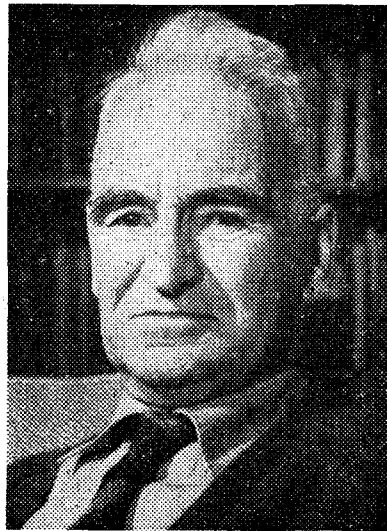
The work of John Taine is distinguished by dinosaurs, weird monsters, laboratory blunders and fungi. His scientific background often shows through. For example, in *Seeds of Life* a "mediocre laboratory assistant" is exposed to excessive radiation. The lab assistant then cooks up an evil scheme to destroy the world. His doctor thwarts the effort, which should suggest as a moral that Tech students should stay healthy.

Dr. Bell is also a renowned mathematician, doing most of his work in the theory of numbers and numerical functions. His efforts netted him the Bocher Prize of the American Mathematical Society for the solution of a classical problem. In 1938 he received a gold medal for his mathematical writings.

Although Dr. Bell has written science fiction for amusement, his major contribution to literature has been in bringing mathematics to the popular level. In 1937 his *Men of Mathematics* was a best seller, and today it remains a classic in popular-science writing. However, people don't win Bocher Prizes for writing popular best sellers. Dr. Bell has written two technical books on advanced mathematics and also published some 300 technical papers.

Bell's book, *The Magic of Numbers*, was released, a local newspaper asked science-fiction writer John Taine to review the book. Taine really liked it. However, one reader complained to the editors for letting a common science-fiction writer review a work by the scholarly Dr. Bell.

Most of John Taine's science-fiction thrillers were written before 1940. The manuscripts for this work were typed and edited by his wife. In 1947 he released a book called *Forbidden Garden*. Critics liked it but said that it was "obviously inspired by the



Dr. Eric Temple Bell

Chayes, Rubey are visiting profs

Two visiting professors have been named this term in Caltech's geology division. They are Professors Felix Chayes of the Carnegie Institution of Washington and William W. Rubey of the U. S. Geological Survey.

Dr. Chayes, who received his PhD from Columbia University, is a petrologist in the Geophysical Laboratory of the Carnegie Institution. Dr. Rubey, an alumnus of Missouri, Yale, and John Hopkins Universities, has been associated with the U. S. Geological Survey since 1924 and has been a Survey research geologist since 1947.

CAMPUS BREWINS

(Continued from Page 2)

ed States in the world crudball championships next month in Vladivostok.

Hormone deficiency

Purves is dreadfully displeased at the news that his campus brewins publicity of last week has reached South Pasadena, causing a prompt cessation of diplomatic and social relations. Our hero should learn that the walls have ears, and the fellow biologists are not the safest of confidantes. The Beak's best wishes to Purves for success at Scripps, where he will not be bothered by the small IQ's and large bust measurements which foiled him at South Pas. Rather the reverse, we feel.

Help wanted

That hyper-hyperbeak, the

campus brewin's editor, is desperate for men of low moral character to carry out his dirty work. Interested parties should submit written proof of perversion to the editors of the Tech and post a \$25 bond in case of libel suits. Successful graduates of the Brewin's BF school are at work at the Westbrook Pegler Institute of Scandal-Mongering.

New sports record

Flash again. Another Sports bulletin. At the recent Caltech all-comers track meet, boy snake Sam Crotch astonished the sports world with a 211 inch throw of his circular slide rule. The mark stands as a new honor section and Tau Beta Pi record, surpassing Gayron's recent 150 inch fling. He will leave soon for All-America games.

EMPLOYMENT OPPORTUNITIES

in

VENEZUELA

with

CREOLE PETROLEUM CORPORATION

An Affiliate of Standard Oil Co. (N.J.)

Representatives of Creole will be on the campus

Monday, February 21

to interview unmarried graduates with majors in ENGINEERING, PHYSICS and GEOLOGY

SEE YOUR PLACEMENT DIRECTOR

FOR INTERVIEW SCHEDULES

WINSTON tastes good—like a cigarette should!



WINSTON'S GOT REAL FLAVOR!

AND IT'S SO EASY-DRAWING!

FINER FILTER!

FINER FLAVOR!

KING SIZE, TOO!

KING SIZE

Winston
FILTER - CIGARETTES

FINER FILTER
FINER FLAVOR

Now there's a filter cigarette college smokers will really enjoy! It's new Winston and it brings flavor back to filter smoking!

You'll really enjoy Winston's full, rich, tobacco flavor. And you will really appreciate

Winston's finer filter. It's unique, it's different, it filters so effectively! Winstons are easy-drawing, too, for full flavor enjoyment.

Try a pack of Winstons! They taste good—like a cigarette should!

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

Tech dance band to debut at frosh exchange Friday

by Benny Goodman

One of the unique features of the freshman exchange tomorrow night will be the debut of a new campus musical organization. The organization, which has taken the form of a dance band, has been threatening to come into existence for months and has now reached performance standards.

Organized immediately after football season, the band didn't get into stride until recently. Originally a full-sized concert band was planned, but the musicians soon discovered that they lacked about twenty pieces of this ambitious goal. Having set their sights on the lesser goal of a small and competent dance band, they promise good home-grown entertainment.

Mr. Davison Stivers, who helped many Caltech musical groups make a name for themselves (as yet this one doesn't have a name for itself, and is open for ideas), has been assisting the men in organizing. Musicians include saxophonists Al Forsythe, Ron Leonard, Mr. Stivers, Nick Grossman, and Bob Haymond; drummer Ken Laws; pianist-guitarist Don East; and trumpeters Bob Johnstone and Bill Lapson—not to mention several itinerant members. Newcomers are welcome and should contact members of the band if interested.

Tech profs appointed to NACA posts

Five members of the Caltech faculty will serve as members of the National Advisory Committee for Aeronautics this year. Drs. Pol Duwez and Sif Sif Penner have received 1955 appointments and Professors Clark B. Millikan, Hans Liepmann, and E. E. Sechler have been reappointed to N.A.C.A. committees and subcommittees.

Dr. A. J. Stosick, division chief at the Jet Propulsion Laboratory, owned by U. S. Army Ordnance and operated by Caltech, was reappointed to the subcommittee on rocket engines.

These men, who serve in a personal and professional capacity without compensation, are selected because of their technical ability, experience, and leadership in a special field.

Dr. Duwez, professor of mechanical engineering, was appointed to the subcommittee on aircraft structural materials, and Dr. Penner, associate professor of jet propulsion, to the subcommittee on combustion.

Dr. Millikan is director of Caltech's Guggenheim Aeronautical Laboratory and the Southern California Cooperative Wind Tunnel. He was appointed chairman of the subcommittee on fluid mechanics and to the committee on aerodynamics. Dr. Liepmann, professor of aeronautics, will continue as a member of the subcommittees on aircraft noise and fluid mechanics, and Dr. Sechler, aeronautics professor, will serve again on the subcommittee on aircraft structures.

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

MUSICAL SHORTS

by Stan Grotch

The inter-dormitory musical system being operated at M.I.T. is described in the January issue of "Audio" magazine. It appears that our eastern cohorts have gotten a considerable jump on the Tech EE-audio clique. Although a similar system is now in operation here, its scope is somewhat infinitesimal as compared to that of M.I.T. Briefly, the M.I.T. system consists of a multi-strand cable connecting the dorms and enabling any subscriber to share his records or radio with any fellow subscriber.

Imagine having a dozen program sources to choose from. Imagine being able to listen to KFAC-FM, KCBH, Huggy Boy, or an almost infinite variety of recorded program material with only the small expenditure for an amplifier and speaker. Although most Tech students simply cannot afford the luxuries of a first class F. M. tuner or the great expense of an extensive record collection, this pooling of resources could bring hi-fi and good music within the reach of essentially everyone. If such a proposed system appeals to you, would you please leave your name in the "G" box in Blacker. If there is enough support for such an undertaking (with the costs divided between the program subscribers) such a system may become a reality at Tech.

The Audio Fair opened officially today at the Alexandria Hotel in downtown L.A. It will run through Sunday. It is an excellent opportunity to drool over the latest in hi-fi and have your ears deafened by some of the flashier sounding demonstration records.

Saturday, the Metropolitan Opera will present Mozart's "Don Giovanni" (KABC, 11:00). Sunday, Myra Hess will be soloist with the New York Philharmonic in Brahms' Piano Concerto No. 1 (KNX, 11:30).

Next Thursday, Feb. 17, marks the appearance in Pasadena of pianist Walter Gieseking, who is the most extraordinary pianist of our era.

CONLEY & TRAPNELL
 (Continued from Page 1)
 ning for Big T editor.

At the time that this paper went to press there were no known nominees for the offices of head yell leader and Big T business manager. It is possible that men were nominated for these offices at this morning's assembly; it is also possible that additional men were nominated for the other offices. Nominations will remain open for one week for all offices for which no one was nominated or for which only one man was nominated.

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

Mettler given national award

Dr. Ruben F. Mettler, Caltech '44, received the 1954 award of Eta Kappa Nu, national honorary fraternity of electrical engineers, "for his outstanding planning and development of air defense control systems and his participation in civic affairs."

The award was presented at the fraternity's annual dinner held January 31 in New York City. It is given, each year, to a young electrical engineer for technical achievement and meritorious community service.

Dr. Mettler is the fourth Caltech alumnus to receive this award. Others are Dr. J. E. Hobson, now Eta Kappa, and Dr. A. M. Zarem. In addition four Caltech alumni have received honorable mention and Dr. R. W. Sorensen, Caltech professor of electrical engineering, emeritus, has been named an eminent member of the society.

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

The call goes out for babes in arms

With campus politics beginning to come into full bloom, an urgent plea has been sent out for a real live baby to be brought to the campus.

The object, as told to the Tech reporter, is: what kind of an election campaign would it be if there were not at least one baby kissing contest?

The political group which wishes to sponsor the contest stated that simple hand-shaking was fine, but that it simply would not be enough to make the campaign click.

Anyone knowing the whereabouts of such an infant who is strong enough to withstand the foul kisses of ASCIT candidates, please write Box 31416, Caltech.

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

ALUMNI POOL

(Continued from Page 1)
 class from 5:00 to 6:00 p.m. From Monday, February 14 to March 3, the pool will be used by the Varsity, Frosh, and Interhouse swimming teams. The Varsity and Frosh teams will continue to practice in the pool from March 7 until the end of the school year.

The pool will be open from 1:00 to 6:00 p.m. for recreational swimming each Saturday for the remainder of this term. Recreational swimming periods are open to all the male personnel on campus, which includes students, faculty, and employees.

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

ENGINEERS

BOEING AIRPLANE COMPANY

WILL CONDUCT PERSONAL INTERVIEWS ON CAMPUS FEBRUARY 17 AND 18

Boeing has many positions open for graduating and graduate students. These opportunities are in all branches of engineering (AE, CE, EE, ME and related fields). Also needed are physicists and mathematicians with advanced degrees.

Fields of activity include DESIGN, RESEARCH and PRODUCTION. Your choice of location: Seattle, Washington or Wichita, Kansas.

Details of openings, nature of assignments, company projects, etc. will be explained. Married students are invited to bring their wives.

Come and learn about these excellent opportunities with an outstanding engineering organization—designers and builders of the B-47 and B-52 multi-jet bombers; America's first jet transport, the 707; and the BOMARC F-99 pilotless aircraft project.

For personal interview appointments—consult your

PLACEMENT OFFICE

BOEING AIRPLANE COMPANY SEATTLE-WICHITA

Redlands edges by Caltech five

The Caltech basketball team lost another heartbreaking conference game to the Redlands Bulldogs last Saturday by the score of 65-59. The contest was the only conference game over the weekend and it did not appreciably alter the SCIAC standings, except to push the Beavers deeper into the cellar. The victory was Redlands' third against two defeats.

Redlands jumped to an early lead in the game as the Beavers could not get going for a few minutes, but it was not long before the score was tied up and it was nip and tuck during the entire first half. Shortly before intermission time the Bulldogs grabbed the lead and the score at half time was Redlands 31, Caltech 30.

The second half was very much like the first—real close. For a while the Beavers got the best of it, holding as much as a five point lead and they led 54-52 with four minutes to go. But then Redlands spurted to an eight point lead at 65-57 on the basis of Bob Pitman's two lay-ins and Al Endeman's five straight free throws to ice away are game. Tech scored its final basket on a grandstand play just before the final gun as George Madsen stole the ball from a Redlands man and passed it behind his back to Jim Koontz who pushed in a left handed shot while falling away from the basket.

Phil Conley finished out a full day by leading all scorers with 22 points and he also played a whale of a game under the backboards as he hauled in rebounds right and left. Jim Tyler and Bill Chambers each had eight points for Tech. For the Bulldogs the scoring was divided evenly with four men in double figures. Center Bob Edmonson led the pack with 16.

Tomorrow night the Beavers take on league-leading Whittier at the Poets' gym. Tech threw a real scare into the Whittier boys before succumbing by three points in their last encounter and they will be out to even the score this time.

Tech third in LAYC Regatta

Last weekend the Los Angeles Yacht Club in conjunction with the Caltech Sailing Club sponsored the second annual LAYC Intercollegiate Invitational Trophy Regatta. The series of twenty races began Saturday at noon with Caltech, Occidental, Orange Coast, Pomona, and UC Santa Barbara competing. Oxy took an early lead then stayed ahead to win the regatta, with Orange Coast close behind followed by Caltech, Pomona, and Santa Barbara in that order. The scores were respectively, 97, 91, 79, 74, and 55, where points are awarded: one for starting, one for finishing, and one for each boat beaten. Sailing for Tech were Ron Wann, Jan Arps, and Fritz Trapnell with Dick Lewis, Chuck Helsley, and Eric Johnson as crews.

Tom Ramsey of Oxy and Buster Hammond of Orange Coast did some very consistent sailing in the A division on Saturday to put these two colleges well out in front. Tech was ten points behind in third place. For the first race on Sunday morning the wind was flat calm: the boats hardly moved for the first three

(Continued on Page 6)

Conley shatters Caltech and SCIC javelin record

Phil Conley of Caltech shattered the Caltech and SCIC javelin record last Saturday afternoon with a tremendous throw of 211'10". The old record was 199' 2 1/4", set by Conley last year. Phil was competing in an all-comers AAU meet at USC's Bovard Field and his toss was easily good for first place. That throw alone will rank him nationally for the rest of the season.

Rod Supple and John Lukesh also entered the meet, and both brought home some points. Lukesh took second in the hundred, losing by only a few inches. The time was 10.2. He also came through with a third in the 220. Supple ran against last year's NCAA champion Jim Lea in the 440 yard dash. Lea won in 47.7 and Supple took second place.

Good marks

With over two weeks still to go before their first regular meet, Beaver trackmen have some very creditable early season performances. In workouts Supple has boomed a 51.2 440 yard dash, and a 1:24.1 660. Lukesh has run

the sprints in 10.2 and 22.7. Roger Wileman ran a 23.2 220 and a 51.5 440. Don Lewis turned in a 3:24.8 for the 1320 a couple of weeks ago and Ted Lang has been throwing the discus over 131 feet.

Both the mile and half-mile relay teams look like they will be excellent. We have four good quartermilers in Supple, Wileman, Lukesh, and Lewis and three good 220 men in Wileman, Lukesh, and Tyler.

Several Beavers will probably compete in this Saturday's all-comers meet at UCLA. This is definitely not to be confused with the Interhouse meet, which will start with field events at 2:00 o'clock Saturday afternoon in Tournament Park. First running event will be the 1320 yard run at 2:30 p.m.

Frosh Sports Roundup

by Bob Walsh

Unusually poor shooting cost the Beaverbabes a contest at Redlands Saturday as the Bullpups took a 36-32 win.

Gene Cordes, replacing the ailing Don Wiberg, stood out with his hustling performance and may have won himself a starting job. Frank Rosbach started in the other forward post in place of Dick Van Kirk, who did not arrive from his Army Reserve meeting until the middle of the second half.

Low scores

Neither team could find the bucket in the first half and the period ended with Tech leading 14-12. Only once did a team hit consistently. In the middle of the second half Redlands sank several baskets in succession to go ahead 29-21 and Caltech never caught up. Guard Ron Marson was high man for Tech with ten points, followed by Sonny Nelson with seven.

Whittier next

Next game is Friday at Whittier. The team should be pointing for a big upset.

Frosh baseball practices start officially February 14.

SCIC Standings

Team	Won	Lost	Pct.	PF	PA
Whittier	4	0	1.000	261	220
Occidental	4	1	.800	366	338
Redlands	3	2	.600	345	329
Pomona	1	4	.200	302	343
CALTECH	0	5	.000	277	328

High scorers:	G	FG	FT	PF	TP	AV
Tiffany, O.	5	42	25	16	109	21.8
Davis, W.	4	26	23	11	75	18.7
Conley, CT	5	26	33	20	85	17.0
Endeman, R.	5	31	23	8	85	17.0
Carlson, P-C	5	28	26	13	82	16.4
Wohlmuth, W.	4	17	28	10	61	15.2
Sovde, O.	5	27	19	13	73	14.6
Edmonson, R.	5	19	25	17	63	12.6
Cook, R.	5	20	22	15	62	12.4
Zumbrun, P-C	5	22	11	14	55	11.0

A Campus-to-Career Case History



Manager Ray New explains the importance of good service to one of his assistants

His "individual training" paid off

When Ray New—Business Administration, Buffalo, '51—started with New York Telephone Company, he never suspected his work would face him with problems of this sort—

"My job as business office manager is to see that the customer gets the best possible service. One of my assignments took me into a section of Manhattan that had a large Puerto Rican population.

"Frequently our people would get somebody on the line who couldn't speak a word of English. So I saw to it that each of my representatives learned a few standard Spanish phrases—enough to get somebody to the telephone who could speak English.

"There are no two days alike in this

work, with new problems coming up all the time. The best part of it is that the training program here is tailor-made to the job. First you get a general background in the business, then you go into what I call 'individual training.' That's where your own special abilities are developed and you're encouraged to think out new ways to solve everyday problems—like the one I just described.

"Right now I'm Business Manager in charge of an office doing \$250,000 worth of business a month."

You'll find these things true of college men, like Ray New, who go into telephone work. They've been well trained, they enjoy their present jobs, and they're headed for responsibilities and greater rewards. If you'd be interested in a similar opportunity with a Bell telephone operating company, or with Sandia Corporation, Bell Telephone Laboratories or Western Electric, see your Placement Officer for full details.



BELL TELEPHONE SYSTEM

STUDENTS-Clip This Now!

\$1,000.00 IN CASH PRIZES

For the Best Essay—(250 to 500 Words) On The Subject

"How I Would Increase the Popularity of Cigarillos"

RULES

1. Only bonafide students of accredited colleges are eligible to compete. 1st prize \$500; 2d, \$200; 3d, \$100; plus four \$50 prizes.

2. Essays must be accompanied by one (1) KING EDWARD CIGARILLO band, or reasonable facsimile thereof.

3. Only one entry accepted from each student.

4. Contest now open. Closes April 30, 1955.

5. Mail entry to Box 3097, Jacksonville, Florida. Decision of judges will be final. All entries become the property of...

JNO. H. SWISHER & SON, INC.
Makers of King Edward Cigarillos

"You don't have to inhale to enjoy a Cigarillo"

Engineers to try new class

The new third term course in human relations will be open to the first 20 sophomore engineers who sign up, according to a resolution passed by the Student Faculty Relations Committee. Only sophomore engineers can take the course.

Interested students should sign-up in Dr. Weir's office.

The course PL 7, will be an introduction to the principles of human relations with major emphasis on the development of groups. Psychological and emotional factors influencing group behavior, group leadership and group co-operation will also be explored.

Dr. Hubert Coffey of the University of California and Dr. Charles Ferguson of UCLA will teach the course.

Zorne and Justus join ROTC staff

Two men have been added to the AFROTC staff at Tech. Master Sergeant Eugene K. Justus, will replace M-S Harold L. Waugh as Administrative Supervisor; and Captain Leonard A. Zorne, who is the new Assistant Air Science Prof.

Zorne, from Salem, Oregon, is a grad of the University of the Philippines, and has attended De Paul University and John Marshall Law School. He will specialize here in teaching world political geography.

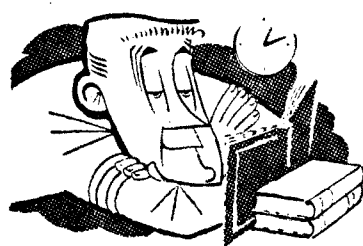
TECH THIRD IN REGATTA

(Continued from Page 5)

minutes after the start. Then with the able assistance of Dick Lewis's smoke-belching pipe Trapnell spotted the first whisp of breeze. Trimming sail to best advantage, the Tech boat ghosted out in front and went on to win. Ron Wann followed suit in the next race by somewhat overstanding the finish line and then roaring down with sheets started to overtake both the Oxy and O. C. boats in the home stretch. Tech took another first later in the afternoon, but consistency paid off and Tech relinquished the LAYC Trophy to its arch-rival.

Justus hails from Spokane, Washington and began his career with the Air Force in 1942. He has been with the Air National Guard in Portland, Oregon as an instructor for the last 3 1/2 years.

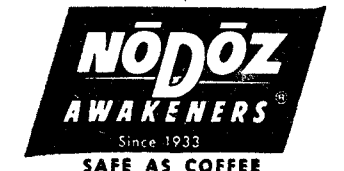
Cramming for Exams?



Fight "Book Fatigue" Safely

Your doctor will tell you—a NoDoz Awakener is safe as an average cup of hot, black coffee. Take a NoDoz Awakener when you cram for that exam... or when mid-afternoon brings on those "3 o'clock cobwebs." You'll find NoDoz gives you a lift without a letdown... helps you snap back to normal and fight fatigue safely!

15 tablets—35¢ large economy size (for Greek Row and Dorms) 60 tablets—98¢



Barn dances for houses Saturday

Barn dances are the feature events of this week's house social program as every house is participating in one on Saturday night. Ricketts and Fleming are holding theirs at Sunland, and Dabney, Blacker, and Throop are dancing in Glendale.

The Ricketts-Fleming affair, which is being held at the Sunland Pool and Park, will feature the music of Eric and his Tyrolian Troubadours. The dance will begin at 9:00 p.m. and will last until 12:30.

The Dabney-Blacker-Throop dance is being held at Mountain Oaks in Glendale. This dance is also from 8:30 to 12:30 and will feature the music of Dick Jaffe and his band.

At both of these dances there will be the standard barn dance entertainment, crew races and flamers.

Interview Schedule

Thurs., 10—BS/ME, CE, BETHLEHEM PACIFIC COAST STEEL. Interviews for Seniors interested in the Loop Course.
Thurs., 10—BELL SYSTEMS, BS, MS, PhD/EE, Ph, Ma, Ch, BELL TELEPHONE LABORATORIES.
BSup/ME, EE, CE, THE PACIFIC TELEPHONE & TELEGRAPH CO.
BS, MS, PhD/EE, ME, Ph, Ae, Ma, SANDIA CORPORATION.
BSup/EE, Ph, ME, ChE, Ch, WESTERN ELECTRIC COMPANY.
Fri., 11—BS, MS/EE, Ph, BYRON JACKSON CO., Electronic Div., Pasadena.
Mon., 14—BS/ME, REYNOLDS METALS COMPANY. Interviews for students interested in industrial applications of engineering and the managerial functions of a manufacturing plant.
Mon., 14—BS, MS/ChE, Ch, ME, EE, CE, COLGATE-PALMOLIVE COMPANY. Interviews primarily for Berkeley plans; have openings in Jersey City, Kansas City and Jeffersonville Ind., plants. Company has openings for Chemical Engineers in foreign manufacturing operations, as well as openings for students in above options for domestic or foreign sales.
Mon., 14; Tues., 15—BS, MS, Ph/EE, Ph, ME, HUGHES RESEARCH & DEVELOPMENT LABORATORIES.
Mon., 14; Tues., 15—BS/ACh, ME, FOOD MACHINERY & CHEMICAL CORP.
Tues., 15—BS, MS/ME, ChE, CE, EE, ALUMINUM CO. OF AMERICA, (Alcoa).

Wed., 16—BS, MS/ME, EE, CE, PUGET SOUND NAVAL SHIPYARD, Bremerton, Washington.
Wed., 16—PhD/Ch, STANDARD OIL DEVELOPMENT CO. (Division of Standard Oil of New Jersey) Linden, N.J.
Wed., 16; Thurs., 17—BS, MS/Ae, EE, ME, Ch, ChE, Ph, Ma, GENERAL ELECTRIC COMPANY.
Thurs., 17—PhD/Ch; MS, PhD/ChE, THE M. W. KELLOGG CO., New York.
Thurs., 17; Fri., 18—BS, MS, PhD/Ae, CE, EE, ME; MS, PhD/Applied Ma and Ph, BOEING AIRPLANE COMPANY, Seattle, Wash. Boeing has a Summer Student Program for student sin the above fields who will complete the junior year in June.

PIN-UPS REPLACE

(Continued from Page 1)
innocent-looking thing was sent out in the mail in sheer ignorance.
Sorry, if you want one, you'll have to steal one. And Dean Jones will impose security regulations on Throop Hall if he thinks he might lose the one he has.

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

Caltech Pharmacy
PRESCRIPTIONS
Dependable Registered Pharmacists
FOUNTAIN
BREAKFAST, LUNCH, DINNER
882 East California Street
SYcamore 2-2101
Pasadena 1, California

TEN FOLD expansion
means **RAPID PROMOTION**
GRADS
BS) (EE
MS) in (Physics

SIGN UP NOW AT PLACEMENT OFFICE
FOR INTERVIEW FRIDAY, FEB. 11.

BYRON JACKSON CO.
Electronic Aviation-Engineering Section
492 E. Union St. RYan 1-5166 Pasadena 1



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