# Honor keys distributed from merits of applications

Tech men to submit itemized lists of deserved Honor Points in hopes of Keys and Certificates

If you have earned 100 honor points since the beginning of third term last year, you are eligible for an honor key. If you have earned 50 points, you are eligible for an honor certificate. The deadline for all applications, which will be considered by the Honor Point Committee, is Friday, February 20, 1953, at 7:00 am. All persons with 50 or more points and those who think that they may be entitled to a certificate or key should turn in an itemized list.

#### Submit to Wheels

Applications may be submitted to Pat Fazio, head of the committee, or to the other committee members, First Representative Bob Lynam and Second Representative Ralph Miles. Applications may also be placed in the "F" box of lower Throop.

#### Honor points for all

You needn't be an elected officer to earn honor points. You can get them just by being a member of any of the numerous campus organizations. A comhonor points are given may be be requested for any additional activities.

The keys and certificates are nomena which are puzzling him. presented at the Awards Assembly late in the third term.

# **Nominations** next Thursday

Next Thursday will be the ASCIT nominations assembly. People who are going to be candidates for any ASCIT office will be nominated then.

Persons who want to be nominated for an office should see either George Johnston or John Gee and mention both the office and the name of the nomi-

All officers including the ones which are not filled until next year will be voted upon in the coming elections.

will be a week of campaigning.

## Interview Schedule

THURS., FEB. 5 and FRI., FEB. 6—BS up/ME, EE, CE; MS up/Me, Ma, Ph. Douglas Aircraft. Citizenship necessary. Interested in BS/MEs going on for MS/Ae; also MS/Ae, ME, CE going on for more advanced degrees for summer work.

MON., FEB. 9—BS/ME, EE. Bailey Meter Co., Los Angeles, Calif.

TUES., FEB. 10—BSup/Me; MS/Ge. Summer opportunities for Jr. up/MEs. Richfield Oil Corp.

TUES., FEB. 10—BS. MS/ChE; BS, MS, PhD/Ph, EE, Ch. Technicolor Motion Picture Corp., Hollywood, Calif. Also opportunities for summer work for men who will complete studies in June, 1954.

WED., FEB. 11—BSup/Engineers. Ethyl Corp., New York. Interested in men for sales positions.

WED., FEB. 11 and THURS., FEB. 12—

Corp., New York. Interested in the sales positions.

WED. FEB. 11 and THURS., FEB. 12—
BS up/CE, EE, ME; MSup/Ae, Ma, Ph.
Boeing Airplane Co., Seattle, Wash., and Wichita, Kansas. Interviews. Summer employment available.

THURS., FEB. and FRI., FEB. 13—BSup/Ge, ME, EE, CE, ChE. Shell Oil Co.—Production Department.

Ge, ME, EE, CE, ChE. Shell Oil Co.—production Department.
FRI., FEB. 13—MS, PhD/Ch. National Lead Company—Titanium Division, South

Amboy, N.J.

MON., FEB. 16—Northrop Aircraft, Inc.
Information regarding interviews later.

MON., FEB. 16—BS, MS/EE. Electronic
Engineering Co., Los Angeles, Calif. Interviews for men interested in communica-

# highlights 'air'

Four Friday Evening Demonstration Lectures, which should be of more than passing interest to Tech students, are planned for the remainder of the term. The Friday Evening Series is an institution of long standing on campus and is an excellent opportunity for anyone to broaden his general scientific knowledge. The subjects covered are wide enough in scope and treated in such a manner that almost anyone should enjoy them.

#### Astronomy

For example, in tomorrow night's lecture Dr. Robert Leighton, astrophysicist, is going to talk about the various aspects of moon crater formation and plete list of activities for which the planet Jupiter. The talk and accompanying motion picture found on page 167 in the Little are so designed that anyone who T. Notice that honor points may is curious about this aspect of astronomy will find an answer to some of the astronomical phe-

## Biology

On February 13, Dr. Renato Dulbecco, biologist, will lecture on the very general subject of viruses. Dr. Dulbecco, an authority in medical research, will explain what a virus is, how it lives, what it does in the human body, and other interesting aspects. The all-out research campaign to find new knowledge about all sorts of viruses will be outlined, and their importance in medical progress explained.

## Brr, it is cold

Professor Watson will repeat (Continued on Page 6)

## Game room closed

Because of the perpetually un-Nominations will remain open kept state of the Game Room in for one week and then there $| ilde{ t the}|$  basement of the Student Houses, the Institute decided not to invest any more money in its upkeep. The Interhouse Committee then voted to close the Game Room until it could somehow be operated in a manner that would not only benefit the students but would present an appearance that would be a credit to the Institute as well.

## Committee organized

A new organization, tentative ly headed by Bob Ryle, is now being formed to reopen and operate the Game Room. Game Room privileges will be open only to members of this organization, who will also be respon-Room organization will be a men's school. formed along lines similar to that of the Musicale. Any student can join, including mem-Ricketts House.

-Interhouse Committee

# Heart Fund, WSSF, Red Feather Drive Rolls Monday

# Caltech to discuss industrial problems

The 1953 series of the Workshops on Communication, sponsored by the Caltech Industrial Relations Section will be held the second Tuesday of each month from February through June, according to Professor Robert D. Gray.

Topics to be discussed at Workshop meetings include su Hot plans for pervisors manuals, employee handbooks, explanation of job evaluation and wage administrative and wage administrative. Y' firesides evaluation and wage administration to employees, suggestion plans, and preparation of employees for retirement.

The meetings will be held from 1 to 5 pm in Culbertson Hall, located on the SW corner of the Caltech campus. The fee for the series is \$15 or \$4 for each meeting. Inquiries may be addressed to the Industrial Relations Section, Caltech, Pasadena, phone SY. 6-7121, extension 109.

Workshop leaders will include: Supervisors manuals — David E. Martin, Ducommun Metals & Supply Co.; Leslie A. Smith, Wilmington Refinery, Union Oil of California: Elmer F. Sproule, Hughes Aircraft Co.

Employee handbooks-L. Cantel, Jr., Standard Oil of California; Ivan J. Hansen, Essick Mannufacturing Co.; C. C. Lincoln, Security-First National Bank of Los Angeles.

Explanation of job evaluation and wage administration to employees-Stanley W. Campbell, Armstrong Cork Co.; Mills S. Hodge, Procter & Gamble.

Suggestion plans—D. G. Morse, General Motors Corp.

Preparation of employees for retirement — Warren S. Gage, Shell Oil Co.; Karl Kunze, Lockheed Aircraft Corp.; Lloyd G. Nelson, Pacific Telephone and Telegraph Co.

# ROOT MEAN JQUAR ...

## by Lewis and Haenggi

Many complaints can be heard on the campus about the Institute. A survey of individual opinions showed that many of these complaints are evidently outweighed by favorable factors. The question asked this week was, "If you had it to do all over again, would you have come to Caltech?" The results were as follows:

|   |         | Yes | No  |
|---|---------|-----|-----|
|   | Frosh   | 73% | 7%  |
|   | Sophs   | 76% | 24% |
|   | Juniors | 94% | 6%  |
| / | Seniors | 83% | 17% |

Of these who answered no 91% said that they would go to sible for its upkeep. The Game a co-ed school in preference to

## Results

By the theory of Root mean square it can be derived the bers of the Throop Club. All in- frosh haven't suffered enough, terested students are urged to the sophomores think they are contact Bob Ryle in Room 67, suffering too much, the suffering juniors have retaliated (ie.,

(Continued on Page 6)

# House that digs deepest wins prize, This is only outside charity of year

The 1953 Consolidated Charities Drive starts on Monday, February 16. This year the charities represented are WSSI (World Student Service Fund), Pasadena Community Chest, and the American Heart Association. Each of the students will receive literature on these charities and information concerning these charities will appear in next week's Tech.

Prizes for winners

This year's drive will take the form of competition between

The ever-popular Y fireside program will wind up this term with two firesides and a poolside. Hosts will be Mr. Carleton Solloway, Dr. Linus Pauling, and Dr. Richard Jahns.

#### Definition

home of some faculty member come to light in the dry atmosphere of integrals or elementary

## Mr. Solloway

Tomorrow night, the host will be Mr. Solloway, a former Tech student and at one time a member of Dabney House. He left to become a marine and is now back teaching calculus to the freshmen.

## Dr. Jahns

The poolside, to be given the afternoon of Saturday, Feb. 21, is a recent innovation. It works from being plagued by individual on the theory that no one in Southern California needs a fire anyway, but everyone likes to go swimming, and along with resonant bonds and twisted proteins is the idea of Dr. Pauling. As head of the chemistry department and freshman lecturer, he is well known to all students.

(Continued on Page 6)

# Music bargain

Attention, music lovers! This Sunday, February 8, the Pasadena Civic Auditorium is admitting all Techmen to the Concert for the mere price of one dollar. For just one dollar you can see and hear the L. A. Philharmonic Orchestra and the James Wagner Chorale. The program:

"Liebeslieder" Waltzes

.....Brahms Symphony No. 3 ..... ...Brahms "Little Symphony"

.....Kupferman "Don Juan" ......R. Strauss

## Squares to meet

Again this Sunday evening, February 8, the Caltech Squares will meet in Culbertson Hall with Harley Smith doing the calling. The time is 7:00 pm with or without dates.

# each of the Student Houses and Throop Club. The house having

the largest per capita donation will receize a "prize" to be announced later. The prize, according to Pat Fazio, will be well worth working towards.

#### Fazio urges support

Says Pat Fazio, who is running the drive, "I want to remind each of you that the Consolidated Charities Drive was started by ASCIT for a very As a word of explanation, a definite and worthwhile reason. "fireside" is a bull session at the Before ASCIT started running a combined drive, the students where he has a chance to relax at Tech were constantly being and talk outside the environs of touched by the many charities. the classroom. Some of these Every week it was a different teachers have a really amazing one. By taking the responsibility wealth of experiences that never for the drive and consolidating all of the charities into one drive per year, ASCIT has saved you students many inconveniences.

## Consolidation

"Some charities preferred not to be represented in a consolidated drive and therefore withdrew from the Tech campus. Because of this and other reasons ASCIT has limited it to the three mentioned above (for this year). If you want to keep this consolidated drive an active part of Tech life and thereby keep charities all through the year get behind this drive and support it," said Fazio.

"Keep these facts, and the fact that a 'prize' is to be awarded to the winning house, in mind when your solicitor contacts you," Fazio concluded.

# Tax trouble? Help coming

To assist Caltech students, staff, and faculty with the preparation of their 1952 Federal Income Tax returns, a Deputy Collector of Internal Revenue will be at the Institute Thursday and Friday, February 26 and 27.

The deputy collector will be located in the lobby of Throop Hall for these two days.

# Campus Calendar

THURSDAY, FEB. 5— 7:30 S.A.E. Meeting, 206 Engineering

FRIDAY, FEB. 6-6:45 Frosh Basketball vs. Whittier Whittier

7:30 Friday Evening Demonstration

Lecture:
I. Theory of Lunar Crater
Formation
II. A Motion Picture of the
Planet Jupiter

8:15 Varsity Basketball vs. Whittier at Whittier

SATURDAY, FEB. 7-

Varsity Basketball vs. Long Beach State at L.B. State 8:00

# Sound Off!!!

Do you have a bitch, a gripe, about the school? Has something given you a pain in the neck, do you want to shoot your mouth off about something??? Now and then everybody feels that "something ought to be done." We all can't complain directly to someone at the controls but it does help to blat.

There are several places where people can bring the attention of the right people to their complaints, but the one most accessible to everybody is the California Tech. The paper is paid for in part by the students and it is run directly by and for Caltech undergraduates and there is no reason why they shouldn't be able to make the greatest use of it.

Almost any letter that is dropped in the California Tech box in lower Throop will be printed if it follows a few simple rules. The Tech will not print anything that the writer would be ashamed of shouting from the steps of Throop nor will we print something unless it is down on paper (preferably typewritten); however, the Tech editors are not public stenographers and will not write anybody else's letters.

All the organizations on campus that can use publicity can use the pages of the California Tech for announcements or articles if they are submitted on paper.

If you want something to get in the Tech put it in the box in lower Throop, give it to someone connected with the paper or bring it down to the **Tech** office any Monday evening before

# Secretary's report . . .

On February 16, the Consolidated Charities Drive for 1953 will begin. As you know, there is just one drive each year on campus (excluding, of course, the Y Drive, which benefits us solely). We have the good fortune of not being solicited by one cause after another, so that we should be able to give very good support to this one drive. The groups which will receive help this year are the U.S. Heart Association and the World Student Service Fund. Let's make this a record year for the Charities Drive.

The annual ICC dance to be held February 21 this year Disabled Russian Veterans (Outwill feature the music of Freddy Martin. The location of the side of Russia). If the FBI comes dance is the Ontario Armory. Tickets will be on sale at the

George Johnston,

# Caltech Pharmacy

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

## Raymond Florist A LARGE SELECTION OF THE FINEST FLOWERS AVAILABLE

60 E. California Street -- Pasadena SY. 2-5289

SY. 2-5293 Flowers By Wire Anywhere 

# BREWINS

Oh where, oh where is my F-84? Oh where, oh where can it be? With its wings cut off And its tail cut short, Where, oh where, has it gone?

#### Ain't no foghorn

The Ricketts boys took full advantage of the near-full moon last Saturday night by organizing a little moonlight sailing expedition. Two by two, the boys and their dates slipped silently out of Los Angeles Harbor. Out on the water that night were Bates, Walker, Inglis, Rocchio, Knapp, and Blackerite Morgue Ogilvie.

#### The peasants are revolting

But this sort of mush wasn't for Bill Gardner. Instead, he took his date to a benefit held for giving financial aid to the snooping around, we'll know

#### They are disgusting

Hello, girls at Scripps! White Wall. Just a small admonition to the female readers: don't take anything in here too seriously!

"LEAVE IT-" "WE DO IT." 8 a.m. to 6:30 p.m. Sat. 8 am. to 6:30 p.m. LAKE AVE. WASH-OUT

563 S. LAKE AVE.
(at California)

SYcamore 2-0687

Pasadena Pasadena 1

#### Q.E.D.

Being a man of his word, Griswold latched on to a wench (at the Ricketts exchange) that had everything from the word go. Judging by the length he was absent from the lounge, he must have been saying "go" at an appalling frequency. Tom Movius decided that this was an example worth emulating, and did so. Which once again goes to prove -come to think of it, it doesn't prove a thing!

#### Engineers are essential

The dastardly digit of the draft board has once again descended threateningly upon Ricketts. Unless the squirming ability of Messrs. Lewis and Martter is of a higher calibre, they may join those Ricketeers already on the Happy Hunting Grounds.

#### Into the sky

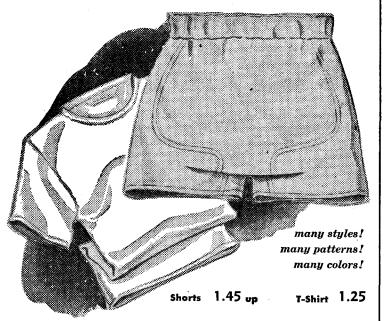
It is interesting to note that the local master bus drivers and strategians society (AFRO-TC to you) have at last found a solution to the smog problem —complete annihilation of L.A. Word is going 'round the Dab-We ney ready rooms that plans for hear this column has a modest a bombing raid are almost comcirculation behind the Great pleted. We know very well that with such highly secret weapons as 60-watt a.c. bulbs hidden under the cowling, and the ultimate in swept-back wings, as evidenced by the F-84 on display here today, the mission is sure to be a success.

#### Contour mapping?

A. L. (Gus) Soux was busy as a little bee Friday putting stakes behind trees and under (Continued on Page 4)

FOR ARROW UNIVERSITY STYLES -

# If it's comfort you want, ask us for Arrow Shorts



Come in-and let us show you the special construction features of Arrow shorts. You'll see why the contoured seat and pleated crotch bring you the most complete comfort you've ever known. We have a big selection of styles in good-looking colors and patterns. See them and stock up today!

# HOTALING'S

921 EAST COLORADO ST. Free Parking Rear of Store

# 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 Nev. 22 1947, at the Post Office in Pasadena, Cali-fornia, under the Act of March 3, 1879.

Offices: Lower Fleming Member

# **Associated Collegiate Press**

Ron Ratney, Editor-in-Chief EDITORIAL STAFF

Managing Editor ......Kai Kristensen Feature Editor .....Chek-Beuf News Editor ..... Night Editor .....Bill Gardner

Night Editor Bill Gardner
News Staff Darrell Fleischmann, Gordon Reiter,
John Young, Ken Deveney
Copy Staff Barlow,
Marv Bienstock, Gary Boyd
Feature Writers Stan Grotch, Don
Cochran, Walt Lee, Bernie Schweitzer,
John Dresser, Chuck Dunn,
Tom Movius, Jim Lewis, Walt Haenggi
Artist Curt Michael, Dave Workman
Photographer Tom Taussig

Sport Staff Editors George Patraw,
Don Turcotte, John Wall
Feature Writers Al Nicholson,
Bill Kelley
I.H. Sports Benji Rosen
Photographers Don Emerson,
Byron Johnson
Copy Chief Byron Johnson
Writers Ralph Kehle,
Al Haire, Gil Beebower BUSINESS STAFF

Business Manager ......Chuck Benjamin Business Asssitant ......Phil Bates Circulation Manager ....George Johnston

# MUSICAL SHORTS

by Stanley Grotch

Last Thursday and Friday evenings Los Angeles music lovers were treated to a rare exhibition of piano artistry. The occasion was the appearance of Mr. Rudolph Serkin.

The "Tragic" Overture and Symphony No. 3 of Brahms constituted the pre-intermission program both evenings. On Thursday Mr. Serkin was soloist in the Brahms 1st Piano Concerto, while on Friday he performed Brahms 2nd Piano Concerto.

#### Wallenstein conducts

Alfred Wallenstein, who conducted the orchestra, did what I consider an admirable job in the execution of his duties. There has always been much talk of the abilities of Mr. Wallenstein in the local papers. There are many music critics who "have been after his scalp" since his arrival in L.A. It is certainly obvious that he is not a conductor of the stature of a Walter or a Toscanini, but how many are?

Although I was not able to attend the Thursday evening concert, I am familiar with Serkin's interpretation of Brahms' 1st Piano Concerto through his fine recording. This record is a real "must" for the record library of any piano enthusiast.

## Musical experience

I had never seen Serkin previous to last week's concert. To see him is an experience well worth the time, money, and effort. He is of medium height, with thinning gray hair, and enormous spectacles. glasses would make a fine replacement for a fair-sized telescope. Serkin walks like a jack

(Continued on Page 4)

Your Nearest Camera Shop

**ALVIN'S** 

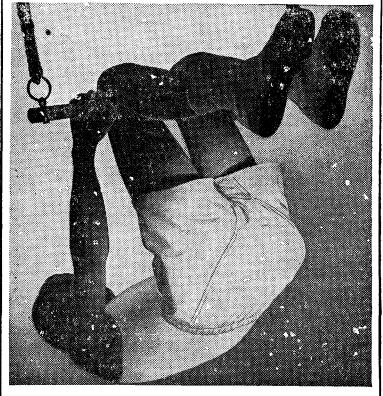
**PHOTO SHOP** 

Everything for the Photographer

**PERSONALIZED PHOTO** FINISHING

914 East California

# Collegians Head-Over-Heels About Comfortable Arrow Shorts



"Any way you look at it, Arrow shorts are tops for comfort." collegians say. Special tailoring features (such as no chafing center seam) assure free and easy comfort in any position. Wide selection of styles, fabrics and colors now available at all Arrow dealers.



SHIRTS . TIES . UNDERWEAR . HANDKERCHIEFS . SPORTS SHIRTS

By Bernie Schweitzer and Tom Taussig

Again we look behind the doors of the Non-Academic Personnel Office, and this time we find Rosemary Stroy. Rosemary is the office receptionist, and an assistant to the employment supervisor.

Born in Los Angeles, Rosefary went to UCLA, from which she "just about" graduated, in 1951. The "just about" is the reason why Rosemary spends so much of her time translating Latin. Seems she took one required course too few, so now she's stuck with it. She expects to get her official diploma, as a sociology major, sometime this year.

Rosemary's outside interests are quite unusual. Her big ambition is to go to Australia or South Africa. This stems from her sociological interest in primitive tribes. One reason, says Rosemary, why she likes working at Tech.

An Invitation

To Try My New Package of 25 Varieties of the

FINEST CHOCOLATES

Only \$1

NESTOR'S FINER CANDIES

569 South Lake

(a)

RALPH'S

FLOWER MART

ORCHIDS \$1.50 AND UP

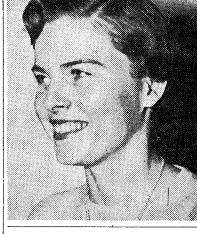
We Deliver Anywhere in Pasadena

Corsages Our Specialty

N. E. Corner Colorado and Hill

RALPH H. YACK, Mgr.

SY. 2-9120



Though she hasn't gotten very far in the direction of Australia, Rosemary does spend a lot of time outdoors. Last summer, she caught a 19½ inch, 2-lb. trout.

This summer, Rosemary plans to go prospecting for titanium, in Death Valley. Good luck, Rosemary, it'll be a good trick if you can do it.

For Sale

Patents and Experimental Model for the New

XF 84.5 THUNDERSPRAY WINGLESS JET FIGHTER

> Complete With Interior Fluorescent Lights

SPECIAL: Has the Damnedest "Smitty's" You've Ever Heard

F.O.B. 648 N. Allen Ave. See Pfc. Arthur C. Little PROVEN IN ACTUAL FLIGHT

RAARUP'S

Home of the California Burger Good Chili

On California just east of Lake

# THE SDACE BEAVER

By WALT LEE

Science Fiction Plus

Hugo Gernsback, "the father of science fiction" and founder of Amazing Stories (1926) and Science Wonder Stories (1929), will return to the SF field this Wednesday, February 11, when his new magazine, Science Fiction Plus, goes on sale. Frank R. Paul will be the Art Director.

SF Plus will have a five color plate cover, 70,000 words, 60 Senior photos and illustrations, eleven pages in color, and stories by well known writers—many who haven't written for a long time. Price is 35 cents per copy.

The story policy emphasizes that the sciene must be sound and credible. Wanted is the sound science and "sense of wonder" typical of old-style SF, better modern magazines.

Astounding Science Fiction The word "Astounding" of ASF's cover is going to start

(Continued from Page 4)











# FLICKER

Tales of Hoffman

It must be admitted that the State presents a varied selection tales of Hoffman's folly in love, combined with the more adroit of films. The pair to be shown writing sometimes seen in the for the next two weeks run the the best comes first. The TALE range from the sublime to the OF OLYMPIA is a story of a ridiculous.

Magnificent Staging

In "The Tales of Hoffman" "growing." This will take place Powell and Pressburger have month by month until it is as done it again. Their latest prolarge as the wording "Science duction is an experiment in third, set on a Greek island, but Fiction." The reason for the form, voice, color and setting for it redeems itself in a Dali-like change is that with so many its own sake. The blend is mag-SF magazines on the stands nificent and unique entertainthese days, a magazine needs to ment. From the first scene with be distinctive and different to its turning weather cocks and catch the reader's eyes; so hence slashing chords to the final mothe larger size of "Astounding." ment when the baton is laid to rest, one is absorbed in this, one

of Moviedom's most impressively beautiful color productions.

#### Operatic Ballet

Jacques Offenbach's opera is divided into a prologue, three and an epilogue. In my opinion lifesize robot of great beauty and dancing ability. Moira Shearer does a fine interpretation of the mechanical dancer. Most operatic (and dullest) episode is the climax that leads into the epilogue.

-Ron Cochran





**YOUR COLLEGE SHOP** 

\_DRESS WEAR\_ -SPORTSWEAR -CASUAL CLOTHES

526 E. Colorado at **Qakland** 



"Men's Distinctive Fashions"

Open Fri. & Mon. **Nights** 



#### CAMPUS BREWINS (Continued from Page 2)

bushes for his CE1a class. His rabbit, and, when he plays, his only complaint came from sur- actions can only be attributed veyors extraordinaire Gratch, to those of a puppet. Kaiser, and Lagerquist, who unrestricted view of the many Dam. It seems the boys were not above removing their instrument (transit) from its mundane job of measuring angles to

Continued on Page 6)

# CALIFORNIA PHARMACY

THE REXALL STORE Prescriptions - Drugs - Fountain California, at Lake SYcamore 2-6222

26 East California Street

WE GIVE S & H GREEN STAMPS

CORSAGES

YOUR DATE WILL LOVE

at Reasonable Prices

CALIFORNIA FLORISTS

In the Middle of the Block

Open Until 8 — Friday and Saturday Til 9

# MUSICAL SHORTS

(Continued from Page 2)

At times his arms hang limpmaintained that the lack of ly at his side while the remaintrees on their plot permitted an der of his body appears to be in a viscous state. When he equestriennes who roam the lands on a heavy chord his wilderness behind Devil's Gate body seems to be catapulted off his stool. His head and arms weave the most intricate curves. At times he even approaches the showmanship of Rubinstein!

His performance of the Brahms 2nd Concert was remarkable. As Brahms himself Kurtz. The program includes once remarked, it is not "a piece Rossini's "Semiramide" Overfor little girls." This Mr. Serkin ture, Vivaldi's Concerto Grosso admirably proved. Brahms' daz in D Minor, Roussel's "Bacchus zling octaves and arpeggio ca et Ariane Suite," and Beethodenzas certainly brought out his vens' "Emperor" Concerto. superlative technique. At the

SYcamore 6-2693

conclusion of the first three| movements he was greeted with rousing applause, only to be exceeded at the finale by a truly tumultuous ovation. A concert by Serkin is an experience not soon to be forgotten.

Saturday the Metropolitan Opera presentation will be Mozart's 'Cosi Fan Tutte。"

The cast includes Eleanor Steber, Roberta Peters, Blanche Thebom, and Richard Tucker.

Sunday (KNX, 11:30 am), Myra Hess will be piano soloist with the New York Philharmonic Orchestra conducted by Efrem

Inspirational! THE MIRACLE OF FATIMA"
IN WARNERCOLOR

Plus the Deliciously Daffy "MY MAN GODFREY"

2588 €. COLO.

# Basketball dope

Since all league teams are at | the half-way point in their '53 campaigns, we wish to publish Anson ......... 38.5 a few team and league statistics. Tyler \_\_\_\_\_ 27.9 Note that all free-throw averages | Chambers ..... 27.8 41.3 are based on a single attempt in Britt .............. 25.9 a one-and-one situation. All aver- Shanks ........ 38.5 75.0 ages are computed on a four- Madsen ...... 22.2 58.3 game basis.

| League Standings |     |      |     |     |  |  |
|------------------|-----|------|-----|-----|--|--|
| Team             | Won | Lost | PF  | PA  |  |  |
| Whittier         | 4   | 0    | 236 | 191 |  |  |
| Caltech          | 2   | 2    | 200 | 212 |  |  |
| Oxy              | 2   | 2    | 250 | 232 |  |  |
| Redlands         | 2   | 2    | 233 | 233 |  |  |
| Pomona           | 0   | 4    | 225 | 276 |  |  |
|                  |     |      |     |     |  |  |

#### FG % FT % PF Avg P Avg 71.0 3.0 88.9 1.5 8.0 76.9 4.0 6.0 3.2 Moody ...... 50.0 50.0 0.5 Smith ...... 33.3 100.0 Stevens ...... 25.0 100.0 1.5 1.0 VanHoven ..... 50.0 Gee ..... 00.0 50.0 Team ..... 32.7 61.7

#### THE SPACE BEAVER (Continued from Page 3)

hopes of eventually changing the over 1951. All stories of high name of ASF to just plain "Science Fiction" and started on the way with the reduction of the word "Astounding," but for the reason above this plan had to be abandoned.

In the April issue Hal Clements' new four-part 85,000-word serial begins.

#### PASADENA BOWLING **COURTS**

Pool and Billiard Tables 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.

#### Review of the 1952 SF Mags Atstounding Science Fiction Years ago, Mr. Campbell had (12 issues) #1 big improvement level. Of special merit: R. F. Jones' "Noise Level," and Russell's "Fast Falls the Eventide."

The Magazine of Fantasy and Science Fiction (8 issues) #2 (rates first in writing quality alone) "Born of Man and Woman" hasn't been topped, but there has been an overall improvement. Large proportion of short stories.

Galaxy Science Fiction (12 issues) #3 no improvement. "Demolished Man" outstanding. Editing none too good. Fairly high level of stories—especially nov-

Fantastic (3 issues) #4 Best make-up of any magazine. Story quality is not what it could beprobably due to the abominable editing. Even a sale of a million copies a month, and a Mickey Spillane in every issue without any other change will make it a financial success but still poor in quality. Let us hope there is a sudden improvement to match the make-up.

Galaxy Novels #5 reprints of novels. Best yarn was Temple's "Four Sided Triangle." Skip S. Fowler Wright's stories.

Startling & Thrilling Wonder Stories #'s 6 and 7. The average is not very high for these magazines. Best was Farmer's "The Lovers." Prints some space opera.

If (5 issues) #8. This magazine has promise. Worth looking over.

Other Worlds (9 issues) #9. Palmer is trying.

Future Science Fiction (6 issues) #10 good in a second-class manenr. Read Jones's "Doomsday's Color Press."

Space Science Fiction and Science Fiction Adventures #'s 11 & 12 slightly above average.

Space Stories #13 space opera. Fair: Imagination, Famous Fantastic Mysteries, Science Fiction Quarterly, Dynamic Science Fiction, Fantastic Story Magazine, Two Complete Science-Adventure Books.

**Weird Tales** should have been discontinued years ago. Only good stories are those reprinted from 1930 or so when Weird was on top as a fantasy mag.

Not worth the paper: Wonder Story Annual (reprinted "Death of Iron," which is still unreadable), Amazing Stories, Fantastic Adventures, Fantastic Science Fiction. (Worse than most comic books). These magazines have set a new low. The shortage of good writers and good editors is evident!

## The Complete Automotive Service PINK WORTMAN & SON AUTOMOTIVE SERVICE

PARTS DEPARTMENT OPEN WEEKDAYS 8 A.M. to 10 P.M. SUNDAYS-8 A.M. to 6 P.M. 2717 E. Colorado SY. 6-1990 PASADENA



# Smooth ball handling beats Oxy

# Chambers, Madsen spark final drive win puts Tech in tie for second

by George Patraw

Playing the kind of ball they are capable of, the Tech casabamen defeated Oxy at PCC last Saturday. The game, one of the most exciting seen around here for quit a while, was close all the way, Tech finally pulling ahead to win 51-45. The victory gave the Shymen a 2-2 league record and tied them for second.

#### Real game

The game started very quickly with both teams hitting for three fast points. The lead seesawed back and forth with no team get- Madsen puts Tech ahead in 4th. ting more than a two point lead. The quarter ended with the score 14-13 in favor of the Orange and White. Tech held this slim lead for most of the second quarter and held a two point margin until Golden of Oxy sunk a long one just as the half ended. The halftime score was 24-24.

#### Stall succeeds

Going into the third period the scoring got going with Oxy last year). leading the way. The third quarter score was 39-37 Oxy. Madsen hit for three quick points and at the five minute mark the score stood 40-39. Tech got control of the ball and started to stall! Oxy pulled out their defense and Tvler sneaked in for a goal. An Oxy man was fouled just as the three minute rule came into effect and he put the score at 45-42. Then Chambers put ice on the game with an underhand driving field goal and later scored another with a couple of seconds to go to put Tech over the fifty point mark.

## Team win

who defeated Redlands was preseason favorite along with Whittier. Oxy probably has the best player in the league, Baxter Golden, and one of the best offenses. Golden, by the way, hit for 15 points to tie with Anson for high point honors.

## Everyone scores

Bill Chambers was terrific on defense and provided the lastminute spark on offense. He scored 12, 9 coming in the last half. Anson hit 11 in the first quarter and concentrated on defense in the other three. Madson was great while in there, especially in ballhandling during Tyler continued his backboard mastery by snagging vided for a last minute comemany rebounds during the hectic last quarter. Brittw was the only one not up to his usual game. He collected four fouls, but hit an important goal at the last.

## Frosh dim

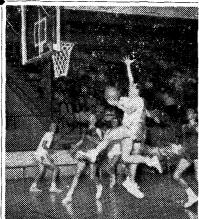
The only dim spot on the sports scene was the loss of the frosh to Oxy frosh in the prelims. The frosh were way off their usual form with only two men looking good. Koontz was high with sixteen and Shedd pro-

## LANE JEWELERS

JEWELRY and GIFTS

All Watch Repair Checked and Timed on An Electric Timing Machine

885 EAST COLORADO ST. SY. 3-1853 Formerly Binley's



## Over the wall

By John Wall

"Oh, if I had a daughter. . . (pardon me, I'm still celebrating). "Beat Oxy" can now be changed to "Oxy Beaten," for for the first time in my memory a Tech team has beaten an Oxy both teams were cold. Finally team (except for the tennis team

> our congratulations are doubly due for their beautiful playing.

I've seen a lot of basketball games, but I've seen few that were as much a pleasure to watch Gil Turner in a double post of as last Saturday's victory. It their own. Also menacing Tech would be out of place to compliment any one Beaver for his fine game, for the whole team played great ball, as a team.

For the record, however, I'd like to pin medals on the chests of some of the players: Anson for his usual shooting, Chambers for his fine finger tip work, The victory was a team vic- Shanks for his smooth ball handtory. Everyone played a great ling, Tyler for his ball hawking, game especially on defense. Oxy, Britt for his aggressive defense, and Madsen for his cool stall work. Words of praise must of course go to the subs: Smith and Stevens, and of course to Coach Shy for finding the winning combination.

> Words of credit must also go to the frosh team. They didn't win, but their fine rebound work under the basket by Conley and company is deserving of special notice for this hints of strong Tech teams in the future.

> And since we are in a complimentary mood, we must give the (Continued on Page 6)

> back that fell short. Parker was off and had 4 fouls very early, Conally is still to score effectively in league play. Off the record, the frosh were beaten by the varsity last week 100-65.

# LAKE **FLORISTS**

104 SOUTH LAKE AVENUE

FOR THE BEST IN **CORSAGES** 

Call SYcamore 3-6803

**Open Evenings** 



# Whittier next Tech seeks revenge

Those surprising cagers, the Shymen, invade the den of the league-leading Whittier Poets Friday night. A win for the Poets would virtually cinch the championship whereas a victory for Tech would give them undisputed 2nd place. The Poets are ten point favorites in spite of the CT Oxy win last week.

#### Story back

Shrewd coach Aubrey Bonham has by now heard of the Tech double post and will undoubted-For the victory the basketball ly have a terrific defense lined team deserves the compliments up. Also "Wild Bill" Story will of the whole school, but I think play his first game for the Poets since last year. Story, only man to successfully guard Anson since high school days, will probably start at center along with will be Johncox and Hartman, both all-league material.

#### Hopes

Coach Shy however will have a few tricks up his sleeve. A new defense is in the offing along with some new offense plays. The boys will be "up" for this (Continued on Page 6)



#### ITALIAN INN

2055 East Colorado Pasadena (4 blocks East of Allen) SY. 2-0657 THE BEST OF ITALIAN FOODS MODERATELY PRICED

Daily 4:30 to 2. Sun. 1 p.m.-2a.m. Home of the Popular Minestrone "Don't Miss Dino's Pizza"

# Tips-N-Tails

by Ed Bryan

With the current snow shortage the Ski Club officials are beginning to wonder if we will really be able to have the Lily Trophy race Feb. 15 as has been scheduled. At any rate plans will go ahead and sacrifices will be made to the great Ski God.

Each house and Throop Club should enter a team of four men. Competition will be held at Snow Valley and will be a Giant Sla-

According to the rules of the Lily Trophy two meets are to be held and the winner of the trophy decided by the combined results. This will be done again given snow.

# Widest Selection CLASSICAL **RECORDS**

Open Friday till Nine

lost in



## FELLAS!! BYE'S GYM

can offer you these amazing results in bodybuilding:

Present a Student Body receive a cut rate.

GAIN LOSE 10-15 lbs. 10-15 lb. chest 3" hips 3" gain in shoulders 3" waist 3" arm 1" thighs 1½" body weight body weight

Guaranteed results in 60 days Open 6 days a week afternoons and evenings 3 Blocks East of PCC

1774 E. Colorado st., phone SY 3-3201

Attention June Graduates

# GOODYEAR AIRCRAFT CORPORATION INTERVIEWING FEBRUARY 25, 1953

Representatives of Goodyear Aircraft Corporation, Akron, Ohio, will be on your campus to interview seniors and graduate students in the following technical study:

- MECHANICAL
- AERONAUTICAL
- ELECTRICAL

- INDUSTRIAL
- METALLURGICAL
   CIVIL
- ELECTRONICS ENGINEERING
- MATHEMATICS
- PHYSICS

# For opportunities in:

Design-Complete lighter and heavier-thanaircraft and components, airframes, power plant installations; controls; hydraulics; electronic systems; fuel cells, canopies, wheel and brakes, etc.

Development-Missile, airship, jet aircraft and helicopter projects; electrical and electronic systems, servomechanisms, fiber resin laminates and many other proiects having both military and non military applications

Plant Engineering-Light heat power application including machine design.

Production Engineering-All phases metal fabrication manufacture.

Stress and Weight Analysis.

Tool Planning including Tools, Dies, Jigs, and fixtures.

Apply NOW for interviews at your Placement Office

# GOODYEAR AIRCRAFT CORPORATION

**AKRON 15, OHIO** 

#### **OVER THE WALL**

(Continued from Page 5)

den. His ball handling was some should be a unanimous all-conference and deserves consideration for coast honors.

#### WHITTIER NEXT

(Continued from Page 5)

one and anxious to avenge four drubbings in the last couple of years. Whittier has been a jinx which Tech would like to overcome. The game starts at 8:15 Beach State on Saturday there at 8:00 pm.

#### **HOT PLANS**

(Continued from Page 1)

#### Assemble in Blacker

The firesides start about 7:15 pm with all those interested meeting in Blacker lounge. Anyone who wishes to may go, but he must sign up on one of the lists posted in the student houses and Throop Club.

#### Schedule

Mr. Carlton Solloway, Feb. 6, 7:15 pm.

Dr. Linus Pauling, Feb. 21, 1:00 pm.

Dr. Richard Jahns, Feb. 27, 7:15 pm.

#### FRIDAY LECTURES

(Continued from Page 1)

ture and demonstration on Febyear, and the fact that it is included again on the program is significant of the way it has been received in the past. For people who have never seen Professor Watson do his "magic tricks" with frozen material the evening should be a real treat.

#### Chemistry

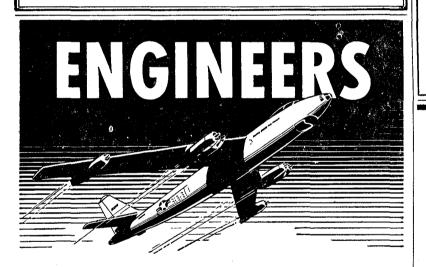
The last lecture scheduled for this term will be given by Dr. yet. with the frosh as a preliminary. Dan Pi forepehtfi-oHcmfwycm Also on tap is a game with Long Dan Piper of the Humanities Department on the history of Experimental Chemistry in America. It is unusual that a man of celibacy, although his faith in the Humanities Department in "Women are evil" was sorewould give a lecture of this sort; ly tried Friday by serpent Kliehowever, Dr. Piper received his gel. It also seems that George degree in Chemistry and was a research chemist for six years before turning to English.

The material for this lecture grew out of a study made by Dr. Piper of early American laboratory science, and the conflicts that the experimental method ran into in our universities. Dr. Piper will be able to give you a broader understanding of the development and growth of modern chemical science and how that growth took place in Amer-

THE PLACE TO GO FOR BRANDS YOU KNOW

Voget and Cathey's Men's Store

459 E. Colorado, Pasadena



# PERSONAL INTERVIEWS

will be held on CAMPUS

February 11 and 12

by

## **BOEING AIRPLANE COMPANY**

Movie will be shown at group meeting on first day of visit. See B-47 and B-52 jet bomber flight tests, guided missiles and other Boeing projects. Discussion period will follow movie.

Openings are available for graduating and graduate students in all branches of engineering (AE, CE, EE, ME and related fields) and for physicists and mathematicians with advanced degrees. Fields of activity include DESIGN, DEVELOPMENT, RESEARCH, TOOLING and PRODUCTION. Choice of locations: Seattle, Washington, or Wichita, Kansas.

These are excellent opportunities with one of the country's leading engineering organizations—designers and builders of the B-47 and B-52, America's firstannounced jet transport and guided missiles.

For details on group meeting and personal appointment contact your

PLACEMENT OFFICE



#### **CAMPUS BREWINS**

(Continued from Page 6)

biggest hand to Tiger Bax Gol- his well known "Liquid Air" lec- the perusal of passing pulchritude. Consequently they didn't of the finest I've ever seen. He ruary 20. This is one of the finish measuring angles (too highlights of the series every busy measuring curves) until

> Fleming received a wedding invite from ex-house lover John Forgy. If you happen to be near Ebenezer, New York, Feb. 14, be sure to drop in to hear his famous last words. We also hear by the grapevine that Don Handen has asked the fatal question, but with no date set as

#### Pieces of eight

Rod Supple got through January without breaking his vow Moore, along with Van Hoven and Bulman, visited Fisher's Saturday and discovered the cashier both pecunious and pulchritudinous. Now each of the three claims the other two are in love. Must be something if Purity George noticed.

#### Goodies for all

Activities in Blacker this week were highlighted by the Pope's presentation of the various trophies for purity achievement. Dick Smith received the Alley Achievement Trophy for the greatest change in purity score. We don't have to say which way it went. For the Ogre's previously mentioned attempts to work himself into the good graces of the local theatrical contingent, he was awarded the Scripps trophy. This goes to

> TERRIFIC BURGERS HOT PASTRAMI SANDWICHES HOT FRESH APPLE PIE BAKED HERE .

> > COTTAGE COFFEE SHOP

Lake and California

the man who tried without suc- ROOT MEAN SQUARE cess; but, the story isn't finished here, read on.

Steffer had stained his record on a blonde lovely from Westridge (we have seen her, so we don't hold it against him. We wonder if she does.) Well, this looks like a happy couple, when suddenly lust rears its head and Al Nichols pops into the picture to make it a triangle.

The upshot of the whole thing is that Monday night Ogilvie, Stefanides, Hastrup, Langdon, and even big John Gee, from the other side of the campus, grace Blacker by bringing a very lovely bevy of femmes to dinner before escorting them to the theater to see "Oklahoma." Al Nichols told Stef that he would just love to wait on their table that night. Steffer said that that would be fine, that Al could take his place. But, for some strange reason when the time came, Al was waiting a table clear at the other end of the dining room, while Parker and Lindfors put on a show of service elegant for the men at the head table and their guests. Needless to say, the Stefanides - Nichols war went from hot to cold in one hell of a hurry. Not only that, but at last Blacker got a look at Morgan's queen of the theater. We are beginning to think that it was worth the effort; what did you say her phone number was, Morge? This was too much for the Blacker Pope, Necrophillius II, who, as mentioned above, had

(Continued from Page 1)

they left), and the seniors are worried about graduating.

#### Remarks

One senior significantly remarked that if he had gone to another school he might have received better grades and thus be more certain of getting into graduate school.

just awarded Morge the trophy for an unsuccessful attempt. He bounded to his feet in the middle of the meal and, without even so much as giving his highsign of blessing, demanded the immediate return of the Scripps trophy. He would have gone on to a long discourse except that it looked as if the blood were about to run from Morge's ears at any moment.

To put the final touches on this we quote Stain . . . (What we almost said!) Steffer for the statement of the week, "Let's face it, women are the greatest!!"



## CONSOLIDATED TICKET AGENCY

price airlines call your local

16 SO. RAYMOND, PASADENA

SY 6-0288

24 HOUR

## For SPECIAL STUDENT RATES

Place Your Order for a Corsage Early

#### JONKER'S FLORISTS

Second Building South of California on Lake

Only a Few Blocks from Tech

SY. 3-7167

# AN OPPORTUNITY FOR GRADUATE ENGINEERS WITH GOODYEAR

Representatives of the Goodyear Tire & Rubber Company and the Goodyear Atomic Energy Corporation will be on your campus to interview Seniors with B.S. and advanced degrees in the following fields of technical study:

- CHEMICAL ENGINEERING
- INDUSTRIAL ENGINEERING
- MECHANICAL ENGINEERING CIVIL ENGINEERING
- ELECTRICAL ENGINEERING

CHEMISTRY

Opportunities for graduates with the above degrees now exist in the following fields:

- PLANT ENGINEERING
- RESEARCH
- PRODUCTION DEVELOPMENT MACHINE DESIGN
- PROCESS DEVELOPMENT
- FACTORY MANAGEMENT
- TECHNICAL SALES

Contact your student placement office NOW for your interview with the Goodyear representative on February 25

THE GOODYEAR TIRE & RUBBER CO. and GOODYEAR ATOMIC CORP.