

## Consolidated Charities Drive begins at Tech in two weeks

The annual ASCIT Consolidated Charities Drive will be held during the week of February 7 to 11. The soliciting will be done on a house basis and the houses will compete for largest contributions with the winning house having a faculty-served dinner.

Various members of the faculty will perform skits for the winning house after dinner, as well as trying their hands at replacing the talented student waiters for the evening. The date for this dinner will be set later in February.

### Four Charities

Vince Marinkovich, chairman of the Charities Drive, has announced that this year's goal has been set at \$3500. The organizations which participate in the drive have been carefully selected as to their merit and appeal. The charitable organizations to which you may contribute are: The World University Service, The American Heart Association, The Pasadena Community Chest, and the American Cancer Society.

Literature will be distributed to all students so that they may become familiar with the functions of the various organizations. Each student will be visited by a solicitor who will have pledge cards to be filled out. Cash or checks may be donated, or you can have your donation put on third term's bill.

Faculty member, who are already covered by another solicitation program will not be contacted.

## Tech astronomer wins gold medal

Dr. Walter Baade, staff member of the Mt. Wilson and Palomar Observatories, was awarded the Catherine Wolf Bruce Gold Medal for 1955 at the sixty-sixth annual meeting of the Astronomical Society of the Pacific, Wednesday, January 12. Baade, who has been at Mt. Wilson since 1931, was honored for his investigation of the structural features and stellar content of systems of stars.

Among his contributions was the discovery that two entirely different types of stars exist in the Great Andromeda Nebula, in our Galaxy, and in others. This led to his recalibration of the Cepheid variable stars and to the cosmic distance scale.

## Plans for new biochemistry lab form as construction runs ahead of schedule

Church Laboratories of Chemical Biology, a one and a half million dollar addition to Caltech's research and teaching facilities, are rapidly rising out of the ground on the farthest corner of the campus. Latest word from the offices of Building and Grounds and the Biology Division is that the building will be completed and occupied this summer. The cement work is running two months ahead of schedule, with almost all the outside walls poured, window fixtures, plumbing, and electrical connections can also be seen. The present official estimate for the date of completion is August 10, but it is hoped that work may be finished before that time.

Tentative plans for occupancy and use of the new facilities

## Economy Run scheduled for finals week this year

This year's Mobilgas Economy Run will begin midnight, Sunday, March 13, at the downtown L.A. General Petroleum Garage, and will last through Thursday, March 17.

The week of March 14 here at CIT is finals week, but by special ruling of Dr. DuBridge and the

## C. B. Millikan honored for aero research

Dr. Clark B. Millikan, Professor of Aeronautics and Director of Guggenheim Aeronautical Laboratory at Caltech, has been chosen to receive the Sylvanus Albert award for 1954 "for his contributions to fluid mechanics, airplane aerodynamics, and wind tunnel technology, and for research leadership and guidance in aeronautical sciences."

The award, accompanied by an honorarium of \$250, is given by the Institute of the Aeronautical Sciences. It was presented to Dr. Millikan last Monday evening at Honors Night Dinner connected with the Institute's four-day annual meeting at the Sheraton Aster Hotel, New York.

Dr. Millikan has been in charge of wind tunnel testing here since 1935 and has been director of the Southern California Cooperative Wind Tunnel since it began operations in 1945. He is chairman of the Jet Propulsion Laboratory Board.

In announcing that Dr. Millikan had been chosen by ballot of the American honorary fellows and fellows of the I.A.S., the scientific society said his work had provided theoretical and experimental additions to aeronautical technology in the fields of (1) fluid mechanics, (2) airplane aerodynamics, (3) wind tunnel testing, particularly high speed tunnel testing, and (4) jet propulsion and guided missiles.

He was cited for detailed con-

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# Nominations on February 10 for student body officers

## Nomination assembly in two weeks; campaigns to begin on February 21

The ASCIT elections will be held Thursday, February 24. At that time men will be chosen to serve in the various offices from the beginning of third term this year until the end of second term next year. Those offices to be filled at the election are: President, Vice-President, Secretary, Treasurer, First-Representative-at-Large, Athletic Manager, Publicity Manager, Rally Commissioner, Head Yell Leader, Editor of the California

Tech, Business Manager of the California Tech, Editor of the Big T, and Business Manager of the Big T.

The nominations assembly will be held at Culbertson at 11 a.m. on Thursday, February 10. Nominations for all offices which are uncontested, will be held open until one week later, Feb. 17. ASCIT President Jim Adams has requested that all candidates planning to be nominated at the assembly inform him of their names and who will nominate them before the assembly starts.

The official election campaign will be conducted February 21-23. At the noon and evening meals on those three days the candidates will make speeches in the four student houses and in Throop Club. Election posters will not be put out until Sunday night, February 20. Every candidate must have his posters, handbills, and other campaign publicity material approved by ASCIT Publicity Manager Fritz Trappell before they are made public.

The duties of the various officers are as follows:

### President

The president is the official representative of ASCIT in all of its dealings with the outer world. He presides at all of the meetings of the corporation. He is chairman of the Board of Directors, and is a member of the Board of Control. He creates and appoints such extra committees as may be necessary for the conduct of ASCIT business, and is a member of the Student-Faculty Relations Committee and the Athletic Council.

### Vice president

The vice president takes over the president's duties during his absence. He is a member of the Board of Directors and chairman of the Board of Control. He is also a member of the Student-Faculty Relations Committee and

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## Dr. Baum to speak on size of universe

"The Size of the Universe" will be the subject of Dr. William A. Baum at the demonstration lecture this Friday evening. The lecture will be given at 7:30 p.m. in room 201 of Bridge. The public is invited to attend and, since the audiences often exceed the size of the hall, those planning to attend are urged to arrive well before 7:30.

Dr. Baum, staff member of the Mt. Wilson and Palomar Observatories, is a graduate of the University of Rochester and holds MS and PhD degrees from Caltech. He has, recently, been engaged in development of sensitive photoelectric equipment and in studies of the photoelectric photometry of stars and galaxies.

## Oxy prof on next week's Y program

Mr. Roy Fairchild, Assistant Professor of Psychology at Occidental College, will conduct the second Sex Lecture of the term, "Dating, Mating or Debating?," Monday evening, January 31, at 7:15 p.m. in room 201 Bridge. This series of three lectures on sex problems is similar to the discussions conducted here by Mr. Fairchild two years ago.

The frosh lunch clubs will experience a change of speakers next week. Instead of the standard faculty member, Miss Joan Pomprowitz, Caltech secretary, will appear before both the Monday and Thursday luncheon clubs to she will speak on "Dating and the Caltech Man."

Tuesday at the Undergraduate Luncheon Clubs, Dr. George Tanham will talk on "The Future in Wartime," in which he will discuss life under the stress of war.

"Planned Parenthood" is the topic that Dr. Ofelia Mendoza has chosen for her talk to the Graduate Faculty Luncheon Forum next Wednesday. Undergraduates are welcomed at these talks after lunch each week. Those who attend are requested to wear coat and tie.

## Cracks found in new pool

Cracks have developed in the late stages of construction of the Alumni Swimming Pool, it was learned Tuesday. The seriousness of the damage has not been indefinitely determined, Mr. Ernest B. Hugg, Building and Grounds official stated, and the pool will be drained soon to investigate.

Plans call for opening the pool for swimming within the next ten days. Officials indicate that the opening will probably not be delayed for any length of time by this difficulty.

The cracks, a series of short, narrow breaks, run the length of the pool near the bottom. Although the cause is undetermined, speculation has connected them with the boundary between two varieties of cement above the piping.

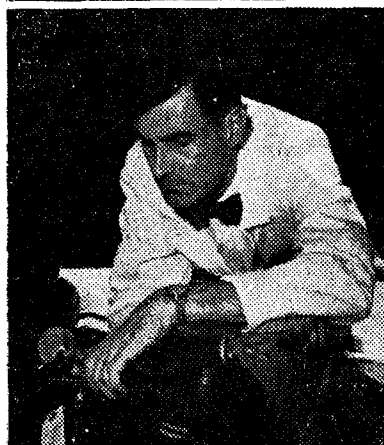
Test water level sunk only one-half inch in the day after cracks were seen. This can largely be accounted for by evaporation. The general informed attitudes seems to be that merely patching the cracks will be sufficient.

faculty Board, those who are to work on the run will be allowed to take final examinations the week before. The reason for the conflict is that the AAA, which sponsors the event, cannot find another open week in its yearly schedule.

### Eligibility

To work on the run, students must have the approval of the deans. Approval is granted on the basis of consideration of the following factors: academic record, the probability that the student will be a successful representative of the student body and of CIT, and the value of the experience to the student.

Those who feel they have the necessary qualifications, should register with Mrs. Toy in the engineering department.



Dr. Peter Kyropolous

The pay for the students who work on the run is \$1.50 per hour plus eating expenses during the break-in runs, and a flat \$10.00 per day on the final run. The food and hotel bills will be footed by the AAA. The return trip is paid for by the AAA, and will be made Friday and Saturday, March 18 and 19, by

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proved interdepartmental liaison in the future.

The chemistry section will be occupied with those fields of chemistry most closely associated with biological problems. Research workers studying protein chromatography, the physical determination of protein structure, and immunochemistry will be proved with offices and laboratories on the upper floors, and facilities for heavy apparatus in the sub-basement. The first floor, in addition to research offices, will provide a conference room, a seminar room, and a lecture room. The basement will be devoted to shops, including a student's shop. Thus the day appears not far away when Church will be another intensely used unit of research at Caltech.

# California Tech

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## Discobolus rules change

For some twenty years the Discobolus, interhouse athletic challenge trophy, has been traveling from one student house mantle to another as Tech athletes fought for the glory of their house. The beautifully inscribed record book is a history of house spirit and a hint of excitement through the years of the tradition.

But even with all this history, Discobolus challenges have recently been confused things causing a great deal of bickering, and incidentally, allowing the arbitrator, the Interhouse Committee, to exercise one of its few powers.

The challenges this year have lacked definiteness and have been the subject of disputes tending to defeat the healthy, friendly rivalry of discobolus tradition. Last term when Fleming challenged Blacker in tennis, the number of men on the teams, a matter which turned out to be decisive, was completely undetermined. When Ricketts challenged Blacker in track, the events were unknown and in dispute. When Throop challenged Blacker there was a question as to which of two sets of rules to use.

Certainly the difficulties are obvious and avoidable with a little long-overdue study. House athletic managers recently drew up recommendations for changes and additions. They look pretty good.

The new rules provide for a challenge in three sports, two from a list of eight major sports, one from this list or another of eight minor sports. The new rules define the events and teams under each sport. The scoring determining year-end possession is readjusted to give more emphasis to winning, and the no-challenge period after a contest is eliminated to step up the activity for the trophy. Under these new rules, we look forward to more competition on the athletic field and less bickering in the committee room.

We'd like to compliment the athletic managers and wish the Discobolus tradition new trouble-free, competitive vitality.

### Letter to the Editor:

## Pendulum seeks lecturers

An Open Letter to all Readers from the Pendulum Editors

The editors of *Pendulum* were very much impressed with the tremendous turnout for the UPA talk given by Pete Burness. About 225 people attended and about 150 more people were turned away at the door. We don't think that this record-breaking response was due to just the urge to see a free movie. You seem to be interested in prominent personalities who can bring to Caltech insights into the present-day intellectual trends.

*Pendulum* would like to sponsor more of these "lectures." But we need contacts to these personalities. Anyone (meaning undergraduates, graduate students, faculty, secretaries, etc.) who knows anyone who knows anyone . . . who is an acknowledged leader in some well-known field (e.g., movie, politics, TV, writing, journalism, art, mu-

sic, philosophy, semi-technical fields, etc.) be sure to see us immediately.

Examples of people we are looking for are: Dimitri Tomkin could describe the role of musical scores in a modern picture, Ray Bradbury could give his idea of writing science-fiction, Frank Baxter could lecture on educational TV, Dave Brubeck could expound his theories of jazz, the president of Union Oil could tell us what parts of college education are important for future managers, Louis Fieser of Harvard could give us a humorous talk on chemistry. An example of whom we don't want is Marilyn Monroe, since the ideas she could bring to the campus are not new and are being adequately covered now by the sex lectures.

Please notify Mike Boughton, Russ Hunter, Chuck Bodeen, or Jim Short of any possible contacts.

## The World and Tangora

by Horace Tangora

Believe me, if I'd known Monday night that they were going to do this to me (see cut) I never would have promised Fretwell and Bergeman to start a weekly column. Can you say sincerely that this horrid caricature does me justice?

All my "friends" say it flatters me but this cannot be so. I must be infinitely more handsome than that. Long hours before the mirror have convinced me that no portrait is fair to me which does not convey a strong impression of charm, intellect, and versatility.

It's equally true that if Bergeman and Fretwell had known Monday night that I was going to write this kind of stuff, they never would have promised me space for the column. But this only serves to show their narrow-mindedness. I have already rearranged the furniture in my room, anticipating the deluge of letters of praise and congratulation that I will undoubtedly receive when this first column reaches my admiring public.

Perhaps you are one of those discriminating souls who read only what I write in the *California Tech* and then use the rest of the paper for heat and light. Otherwise, you have noticed this week's lead story, which is the first printed notice of the coming ASCIT elections. If your eyes and ears are open, you already have an inkling of the slate which will be nominated.

What makes guys run for office? Since I know nothing about psychology I feel perfectly free to go ahead and make a detailed analysis of this subject.

The ubiquitous Dr. Weir once told me, as I lay prostrate on his desk (he can't afford a couch), that most college men are characterized by mild inferiority complexes—not big old pathological inferiority complexes, mind you, but just little hesitant pantywaist inferiority complexes. All of us (meaning you and me, but not necessarily him) are supposedly motivated by a drive for social approval.

How convenient is that? In one stupid paragraph is the answer to our question. Guys run for office so that they can pat themselves on the back when they win and say to themselves "Good boy! See, you're popular after all!"; and if they lose, they still get to feeling like big men on campus.

To be sure, other motivations naturally enter in, of course. Some officers get paid, while others have a chance to meet people (including girls) or get rich through graft.

Actually the reason I run for office cannot be explained in such terms. No childish desire for acclamation motivates my campaign. I just want the honor points.



## Campus Brewins

"Man is conceived in sin and born in corruption."

### Girl Genius Rides Again

Throop's after the game dance Friday terminated with many chuckles and two red faces, as Kilchenman and Tyler went down to defeat before a Brooklyn accent named Marie in four games of 3-D tictactoe.

Marie not only smeared the fair repute of Caltech genius by trouncing these gentlemen, but also claimed while doing it that she had never seen the game before. Jim Lloyd entered just in time to save Tyler, Kilch and the trustees from suicide, and defeated the lady 6-0. Sic semper caltechis.

### More Louise

Al Helgesson has recently announced receiving notes that reveal "starting new developments" in the Louise case. The contents of these notes has remained a secret, and the Beak could not get the information even by the subtlest of underhanded methods. Maybe Al will sell out to the highest bidder now.

### Made Any Patties Lately?

A short seminar on patty (hamburger) making was the Freudian demise of Elliott last Saturday night. In the company of his girl with the name of (you

guess), and Adams and date, C.T. launched into a long discourse on the mechanics of patty making. Before he could extract his foot from his mouth, half of the quartet were laughing to the point of tears while another was just a shade off deep crimson.

### Johnson Fan Club

The Beak notes with wonderment the request received by Roberts this week from Oregon State College. No fewer than 169 freshmen girls have asked for a piece of, a signature, or some memento of that Casanova from Corvallis, Rats A. Johnson. To the Beak, this seems like a monumental exhibition of female frustration, but Roberts & Co. have decided to capitalize on the windfall. An invitation to the Ricketts Snow Party has been extended to the Johnson Fan Club and the Rowdies await the reply with panting breath and outstretched tongues.

### Plutocrat for a Night

A couple of crazy characters saw to it that Blacker's theater party at the Biltmore last Saturday night was a little more than a stage play. In the last minute plot between two usually tame people, Myron Black decided to awe a brand new date by employing dateless Joe Gibbs as chauffeur for the evening. Poker-faced Gibbs dressed himself in a black suit, white gloves, and even a cap (never question the value of the RO again) while Black boldly explained the Chevrolet away with some story about the limousine breaking down.

### Dabney Reads It

Two weeks ago, a bright-eyed coed from Pomona made a surprise visit to our famed Ascit Scribe, Ted Johnson. After dumping a bottle of wine on the desk and herself in a chair, she came up with the suggestion that they study together. It is dubious as to how much studying went on, but an interesting result is that the correspondence between the two has increased from one to two letters a week.

Congratulations to the Fleming House 69th Gospel Church for instituting a policy of compulsory attendance of all Fleming frosh at all Tech home basketball games. At an attempt at insurrection, frosh stalwart Norton Starr arose at lunch Friday and proclaimed that it would be "advisable" for all members of the clergy to attend the frosh games. Then Father Divine arose and accepted with pleasure this kind invitation, adding that Starr could cover his embarrassment at the absence of any frosh by spending five minutes per man in the showers. Needless to say, all frosh attended the game. After the game the frosh and the clergy joined forces to rid the campus of an unsightly growth which has been concealing the rather revolting features of Mike Blicher, Blacker House sophomore. The Church has once again done humanity an invaluable service.

## On top of old Guggenheim

By Jerry Fried

A lot of people have been wondering about the new construction above the Guggenheim Aeronautics Laboratory. I know I have, although up till now I've been too doggone lazy to find out what's going on. There's been quite a lot of speculation about what it might be, ranging all the way from a penthouse apartment for visiting professors to a sun porch for homesick Arizonans.

After some nosing around Guggenheim, I was told that Mr. Lester Lees, Dr. Henry Nagamatsu, and Mr. Josef Rabinowicz were in charge. I called upon Mr. Rabinowicz, who said it was to be used in hypersonic research, for fluid flow and shock tube testing.

The shock tube, used for producing rapid pressure jumps, is a gas-filled tube divided into two sections by a diaphragm. Pressure is pumped up in one compartment until it ruptures the diaphragm and propagates a shock wave. Waves with speeds up to Mach 20 or higher can be produced. The shock tube may be used to test new theories, as has been done in the past. For example, experiments with shock tubes have confirmed the theory that the conductivity of any gas should rise with the rise in temperature to a limit, independent of the chemical nature of the gas.

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# Tech humanities program pioneered by Dr. Munro

By Bob Deffeyes

Over the fireplace in Dabney Hall Lounge hangs a portrait of one of the most interesting men ever to teach at Caltech, Dr. William B. Munro. The Institute noted, last January 5, Dr. Munro's eightieth birthday—eighty years of a successful life, a large part of which has been devoted to Caltech. The history of Tech and the development of Dr. Munro's career go hand in hand. How did this association between a technical institute and a famous business-scholar begin?

The credit goes to Dr. R. A. Millikan. At the time of the establishment of the institute, Dr. Millikan had found competent men to build the segments of the scientific Caltech. He had Arthur Noyes, George Ellery Hale, Henry Robinson, Hiram Wadsworth, Arthur Fleming, and other famous men. However, Dr. Millikan was interested "in the broad background of general knowledge and understanding to make the products of Caltech effective citizens in the modern world." He worried with the problem of the humanities department for three years. He tried to supplement this division by bringing in guest lecturers and visiting professors such as Alfred Noyes and Fredrick Turner to the campus. In 1925, Dr. Munro was spending a year of leave in Pasadena. He was invited to take a part time job in "this pioneering enterprise" and to fill "not only a crying need but a matchless creative opportunity." In 1926, Dr. Munro's conversations with Joseph Dabney led the latter to give over a quarter of a million dollars to provide the humanities building. In 1927, Dr. Munro was elected to the Executive Council of the Institute (which contained at that time Noyes, Fleming, Hale, Robinson, Millikan, and others). In 1928, Dr. Millikan went to the East and arranged for Dr. Munro to spend full time at Caltech.

In the field of scholastics, Dr. Munro has receive many honors. He started college at Queen's University in Canada, where he received three degrees. In 1899, he went to Harvard for two more degrees. From the title of instructor at Harvard, he rose to become Jonathan Trumbell professor in American history and government. As an academic lecturer, Dr. Munro went to the University of North Carolina, Cornell, Lafayette, and the University of Toronto. He received four honorary degrees from Williams College, Queen's, Southern



William B. Munro

Cal., and Mills College. In 1929, he became full time professor at Caltech; and, in 1940, an Edward Harkness Professor of history and government.

As an administrator, Dr. Munro was again outstanding. He has been a trustee of Scripps, Claremont, Huntington Library and Art Gallery, Huntington Hospital, and other organizations. At Tech, he was a member of the Executive Council, Board of Trustees, and Finance Committee. In 1945, the new treasurer of the Institute was Dr. Munro. He was chairman of buildings and grounds which included letting of contracts for most of the buildings on campus and he was chairman of the industrial relations section. The list of civic organizations of which he was president is too long to list without making the California Tech an eight page newspaper.

Many Tech students used Munro text books in high school. Dr. Munro has written 15 major books on history and government. His book, *The Government of the United States*, now in its fifth edition, is very widely used. Dr. Munro started his commercial writing as an editorial writer for the *Boston Herald*. He has continued to contribute to periodicals of many sorts during his life.

Not very many professors can carry on a separate successful life in the world of business. Dr. Munro, however, was at one time the Director of the Cambridge Trust Co. A year after coming to Caltech as a full time professor, he became a member of the board of Security-First National Bank of Los Angeles, and a year later was chairman of the board. This position, he held until his resignation January 8 of this year. He became director of the Southern California Edison Co. in 1940.

At the age of eighty, Dr. Munro still holds the position of treasurer of Caltech, chairman of the board of trustees of the Huntington Memorial Hospital, member of the board of directors of Southern California Edison Co., and is involved in many other pursuits.

## Pendulum articles should be in soon

Both graduates and undergraduates are reminded that their material for this term's *Pendulum* should be in to the editors by Monday, February 7.

### C. B. MILLIKAN

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tributions on the effect of turbulence on the maximum lift of airplanes, effects of propellor slipstream, and effect of wind tunnel walls on lift distribution of models; also for contributions to the airfoil theory and the study of turbulent flow, boundary layer and skin friction, and tapered wing stall. He has suggested simplified approaches to performance problems.

The I.A.S. said that Dr. Millikan, who has been teaching at Caltech since 1928, "has exerted an incalculable personal influence upon hundreds of students who later blazed their own trails in the engineering profession." He is credited with developing at Caltech an up-to-date, extensive research facility that is extremely useful to the aeronautical industry. In addition to publishing some 30 technical papers, he is co-editor of the *CALCIT Aeronautical Series* and author of the first volume, entitled "Aerodynamics of the Airplane."

# Political speculator predicts hot election season this year

By The Watchdog

We read in the paper last week where it said that everybody should think about running for a student body office. Now, that's a right nice thought. And then, Old President Jim came around the other night to talk us a little speech and he told us that the ASCIT elections were not very far off and that you should start to figuring what you were going to run for and why.

Too many rumors

I guess that deep down in these homely bones, there is a bit of the unbeliever in us, so we just are going to sit back in the chair and see what happens—we don't believe any rumors, and we refuse to believe much that anybody says when he's talking about what he's going to run for or trying to get us to say we will vote for him. We've just been sitting—and listening. And man oh man, what we have heard.

Early clues

Now take for example this here race for President. It has sort of filtered out that Phil Conley is thinking about giving it a try. Phil is certainly an ath-

letic leader here, and it isn't the least surprising that his friends would like to see him student body head. We haven't heard anything to the contrary—so we guess it must be so. That was nothing compared to the stories that have been a'flying around about what Fritz Trapnell is thinking about. First, we heard that he wouldn't run. That was a surprise, since lots of guys sort of assumed all along that he would give it a try. Then the other day somebody come a panting up to us with the latest dope. Trap's going to run after all. Don't know what happened, but it sounded logical. Then, just after we thought we had everything all figured out, up comes some blabber mouth with his version: Trap has finally decided that he can't do it—he won't run. Then, just yesterday—straight

Final clue

poop: Trapnell vs. Conley for ASCIT president. Well it just goes to show that probably nobody changed his mind at all—just a bunch of gossips running around.

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## A Campus-to-Career Case History



Jim O'Hara (left) works out a problem with a member of his crew

His territory:

## TWO CITY BLOCKS

James O'Hara, Stevens Institute of Technology (M.E. '51), is an installation foreman for the New York Telephone Company. His present assignment is two city blocks between 45th and 47th Streets in the middle of Manhattan.

"It doesn't measure very big horizontally," Jim says. "But vertically it makes up a lot of telephone business—7500 telephones to be exact. My eight-man crew does everything from installing a single telephone to working on complete dial intercom systems for some of the nation's biggest businesses.

"I've got to know about each of these jobs that my men do. My training with the telephone company took me through the installation, repair and testing of the various types of telephone equipment and service for which I am responsible. I even had a chance to do a little experimenting of my own and developed a new way of preventing oil seepage on automatic switching equipment. I understand it's being written up for use throughout the Bell System.

"That's what I like about telephone work. Even two city blocks are full of opportunity."

You'll find that most other college men with the telephone company are just as enthusiastic about their jobs. If you'd be interested in a similar opportunity with a Bell System Telephone Company—or with Sandia Corporation, Western Electric or Bell Telephone Laboratories, see your Placement Officer for full details.



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## Interview Schedule

- Thurs., 27—BS, MS, Engr./Ae; BS/Ma, (Interested in Digital Computer Work) COOPERATIVE WIND TUNNEL.
- Thurs., 27—BS, MS/ChE, ME, Ph, Ch, LINDE AIR PRODUCTS.
- Thurs., 27; Fri., 28—INTERNATIONAL BUSINESS MACHINES.
  - I.—BS, MS, PhD/EE, ME, Ph, Ma—Engineering Research and Development and Engineering Manufacturing.
  - II.—MS, PhD/Ph, EE, Maj/Applied Science Division.
  - III.—BS, MS/EE, ME—Sales.
- Fri., 28—BS/ME, EE, ALLIS-CHALMERS MFG. CO.
- Mon., 31—BSup/Ach, CE, EE, ME, BECHTEL CO.
- Mon., 31—BS/Ph, Ch, THE UPJOHN CO., Positions in sales.
- FEBRUARY—
- Tues., 1; Wed., 2; Thurs., 3—BS, MS, PhD/Ae, ME, CE, EE, Applied Ma Applied Ph, DOUGLAS AIRCRAFT CO., INC. Douglas is offering Summer employment for Jrs. up in the Engineering fields listed.
- Wed., 2—BS/EE, THE ELECTRIC CONTROLLER & MFG. CO., Cleveland, Ohio. Interviews for positions in development, production engineering and sales.
- Wed., 2; Thurs., 3; Fri., 4—BS/Ach, CE, EE, MS, PhD/Ch; MS, PhD/ChE, UNION OIL COMPANY OF CALIF. Interviews for summer employment will be scheduled later in the year.
- Thurs., 3—GROUP MEETING, 101 Dabney, 4:15 P.M., AIR FORCE FILGHT TEST CENTER, Edwards Air Force Base, Jrs. up interested in Summer employment should plan to attend this group meeting. Edwards Air Force Base is also offering summer employment to Jrs. up who will be attending summer AFOTC camp.
- Fri., 4—BSup/ME, EE, Ae, AIR FORCE FILGHT TEST CENTER, Edwards Air Force Base.
- Fri., 4—BSup/EE, Ph, ROME AIR FORCE DEPOT, Griffis Air Force Base, New York. The Rome Aid Development Center is offering summer employment for students in the above fields who will complete their sophomore year in June.
- Fri., 4—GROUP MEETING, 101 Dabney, 4:15 P.M., WESTINGHOUSE ELECTRIC CORPORATION.

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# The COOL Corner

By Frank Kofsky

What with almost all of the larger and many of the smaller recording companies putting out good high fidelity jazz records, and with the superlative hi-fi equipment currently on the market, the good old AM radio has been relegated to a position of very minor importance. The radio fans and owners (like me) have been looked upon as a somewhat inferior species. In their haste to dispense with the radio, however, jazz fans may have been passing up some good programs, and to prove my point: Allow me to illustrate with the word on some sides recently released, and first heard on the radio.

### Four saxes

During Christmas vacation, I was listening to Gene Norman on KLAC (570) one night, as he started to play a new album entitled "Four Saxes in Twelve Tones." The numbers for the album were either originals or original arrangements by a Mr. Lyle Murphy, whom Norman was interviewing while playing the album. The score was played by a sextet composed of a soprano, alto, tenor, and baritone sax, a bass, and drums. What makes this record set such a standout is the fact that Murphy does not write music in a key, but rather employs the twelve tones of a piano to replace the key signature.

Mr. Murphy said, and followers of modern classical music should concur, that by his method varying degrees of atonality could be produced while keeping the score relatively simple. In any case, either because of or despite the inherent atonality, the album is very refreshing, it swings well, and is somewhat reminiscent of "Shelly Manne and His Men (Contemporary)." Unfortunately, Mr. Murphy tended to mumble, and I didn't quite get the name of his recording company.

### Geller and wife

A couple of weeks later, while listening to the same disc jockey, the cool strains of "Sleigh Ride" as rendered by a modern sounds quartet came forth from the set. From the precisionist technique, I guessed that it might be Lee Konitz on sax. Imagine who was amazed when Norman said that it was Herbie Geller blowing alto, and his wife, Helen, on the piano. Well! My guess was not far wrong, however, for subsequent research has revealed that Geller is of the Konitz "school." That follows, I guess, in that he has played with Konitz under both Kenton and Shorty Rogers previous to his quartet work.

### Dick jockey

Last but not least, I would like to restate that Mr. Walt de Silva's "Jazz Scene" can be heard from ten-thirty to one A.M. on Saturday nights over KFVD (1020). The records run the gamut from Kenton to Brubeck, in addition to the attraction of a guest celebrity.

**Jazz Notes From All-Over:** Los Angeles — Currently replacing Konitz and Barney Kessel at Jazz City is pianist Russ Freeman. His previous experience includes piano man for the Chet Baker quartet. Not having seen him as yet, I can only judge by his records, all of which have been superior, that his playing will justify the trip to Los Angeles to hear him.

# ASCIT election coming soon

(Continued from Page 1)

the Honor Point Committee. In addition to these duties, he serves as chairman of such things as the charities drive and blood program.

### Secretary

The secretary is a member of the Board of Directors. He keeps a record of the proceedings of the meetings of the corporation and of the Board of Directors. He also keeps a record of the proceedings of the Board of Control. He carries on all ASCIT correspondence, and is responsible for posting notice of meetings and reports of meetings whenever they are necessary. He is also a member of the Student-Faculty Relations Committee.

### Treasurer

The treasurer's primary duties are to receive all money belonging to the corporation, bank it, and keep a full account of money expended and received. He is also a member of the Board of Directors and the Student-Faculty Relations Committee. Unlike all of the other officers, the treasurer does not take office until the beginning of first term next year.

### First representative at large

The first-rep. is the ASCIT social chairman. He is in charge

of the various ASCIT social events, such as the formal, the Christmas dance, and the "Lost Weekend." In addition to this he is a member of the Board of Directors, the Honor Point Committee, and the Student-Faculty Relations Committee. The first rep must be a sophomore or junior at the time of his election.

### Second representative at large

The second rep is a member of the Board of Directors, the Honor Point Committee, and the Student-Faculty Relations Committee. In addition to this he keeps the bulletin board in lower Throop up-to-date and helps the California Tech to maintain a calendar of campus activities. At the time of his election the second representative must be a freshman.

### Athletic Manager

The athletic manager is a member of the Board of Directors, the Athletic Council, and the Student-Faculty Relations Committee. He is in charge of all athletic award banquets and assemblies. He presents recommendations for awards and procures all awards. He recommends team managers for approval by the Board of Directors.

### Publicity Manager

The publicity manager's job is

to inform local and national publications of the activities of Caltech. He reports athletic contests, social affairs and the like to various newspapers and to campus publications. He is also a member of the Board of Directors and the Student-Faculty Relations Committee.

### Rally Commissioner

The rally commissioner presides over the Rally Commission, the official entertainment committee of the ASCIT. He is responsible for the organization and presentation of assemblies, rallies, student parades, and game preparations. He is also a member of the Board of Directors and the Student-Faculty Relations Committee.

### Head Yell Leader

The head yell leader is responsible for organized yelling at all athletic contests and rallies.

### California Tech editor

The editor of the California Tech is responsible for the publication and all editorial work done on the paper. He is also a member of the Student-Faculty Relations Committee. The editor receives a salary of \$200 per year.

### Business Manager of the California Tech

The business manager of the

## POLITICAL SPECULATION

(Continued from Page 3)

This may be a banner year for good contests—anyway it looks like the vice-president's seat is only going to be sat in after a race. There hasn't been any competition for vee in years, but Lyman Fretwell and Howard Berg are both giving it a try. We think it will be a good race. No favorites—that's not fair, but a "good race." Here are two fellows who not only are both physicists, but who worked together as partners on a sophomore physics research project.

### More info

There's going to be some other mighty close ones — publicity manager may have three strong candidates. The grape-vine has a couple of men picked for secretary, two for first rep., and the Watchdog has heard of only one prospect for treasurer. Second rep. is usually a free for all with a whole litter of freshmen—nothing definite on that yet.

We are just thinking that we might pass along what has passed through our ears—just sort of chatting in a friendly sort of way. This isn't going to be as good a campaign as Adlai's and Ike's—not enough speeches; but we think we will follow it along and we'll let you know next week how things shape up.

# MORE LUCKY DROODLES! MORE LAUGHS!

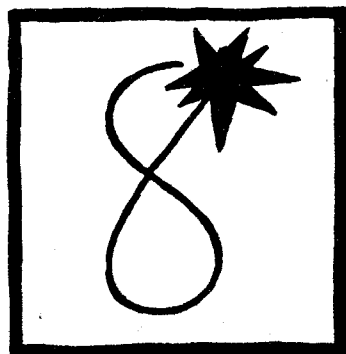
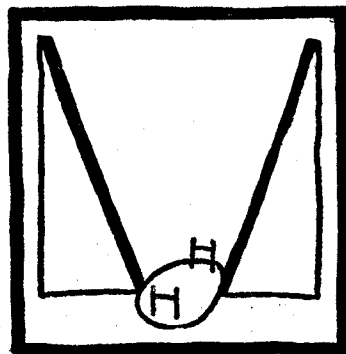


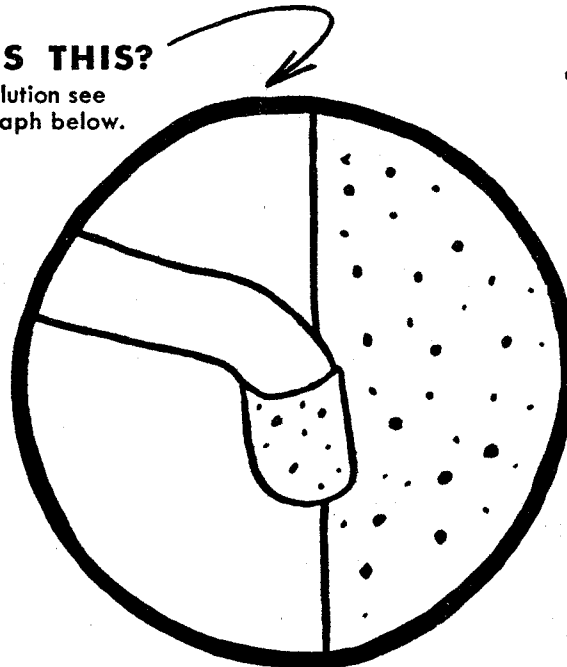
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Eastern New Mexico University



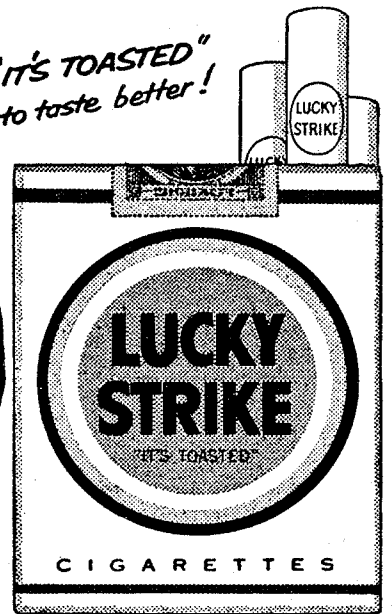
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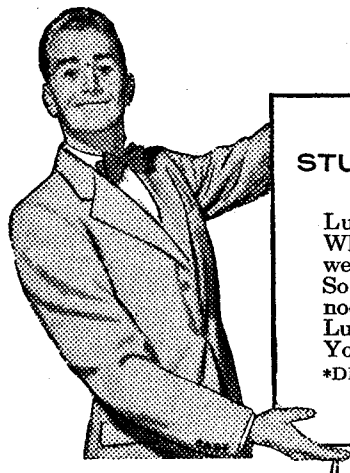
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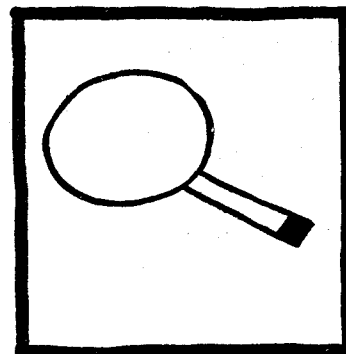
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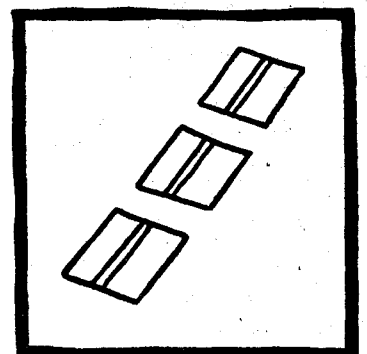
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### CARL'S

## CALTECH BARBERS

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# Poets beat Tech in heartbreaker

A fighting Caltech basketball team went out on the floor last Saturday night and scared the pants off the high-flying Whittier Poets before dropping a 51-48 decision. As has been their custom, the Beavers jumped into a quick opening lead and although they did not score too many points, they held the Poets to even less. Phil Conley played an inspired game for Tech, especially in the first half. He was a tiger on the backboards and he scored eleven out of twelve free throws to lead the Beavers to a 27-15 half-time advantage.

In the second half the visiting Poets started to creep up on Tech and when Marlyn Davis sank a hook shot with eight minutes remaining in the game, Whittier led 39-38. But that was not the end. The lead changed hands six times after that and it was tied up twice. The Poets grabbed a 49-47 advantage with 1:40 left to go, but Caltech captain Bill Chambers was fouled almost immediately and he had a chance to tie it up again. However, he missed his first shot and then made the second one to bring Tech within one point.

Whittier attempted to stall out the remaining minute and a half and they almost succeeded. With only 17 seconds left though, Tech managed to tie up the ball and they controlled the jump. The ball passed in to Conley, but Whittier's fireball guard George Dierson stole it away from him. Then there was a big scramble and George Madsen was called for fouling Whittier's Joe Wehl-muth. Wehl-muth calmly sank both shots to send the Poets home with the victory.

The win left Whittier with an undefeated conference record, while Caltech dropped deeper into the cellar with no victories and four defeats.

### 15 for Conley

Wehl-muth was the game's high scorer with 16 markers. The two centers, Conley and Davis, each had 15 points. Jim Tyler scored eight points for Tech and also played a fine game under the boards. Chambers, Madsen, and Moody each tanked seven points. The Beavers played a Tuesday afternoon game with Pasadena Nazarene and they meet L.A. State tomorrow night in Scott Brown Gymnasium. The Diablos scored a six point victory over Tech in early season play and Tech will be out to even that score this time.

The Shymen resume conference play next Saturday night with a game at Redlands. The Bulldogs are in third place in the league with an even two and two record.

## ROTC cadets in competition

Air Science III Cadets of the Caltech ROTC Detachment are getting ready to compete nationwide for the Republic Aviation Corporation Award.

Ten-minute speeches on the Air Power theme will be the order of the day. The cadets will be judged on such items as preparation and techniques of delivery.

Initial try-outs are scheduled for February 17, 1955.

Eliminations will dwindle the number of contestants to three. These three cadets will then perform for the judges selected from the regular Caltech faculty.

The award and certificate will be forwarded directly to the Caltech detachment by the Republic Aviation Corporation, and be presented to the winner at an official ceremony.

The winner of this final competition will have his name submitted to Headquarters, Air Force ROTC.

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## Whittier wins frosh battle

By Bob Walsh

Coach Ed Preisler's Beaver-babes threw a scare into league-leading Whittier Friday before the Poets exploded in the last minutes for a 46-34 win.

A tough Tech defense held the strong Whittier contingent to a tight game but weak shooting ruined the locals' chances. Guards Ron Marson and Sonny Nelson sank all of the Beaver's goals. Nelson led scoring with eleven points, followed by Center Glenn Converse with ten, all free throws.

Tech seems unable to organize a stable offense. In the first games, against weaker opponents, Nelson and Marson were hitting consistently and this was all that was needed. Against tougher conference foes the Beavers needed a more varied offense but were unable to work the ball close to the basket. In addition, the forwards and center had difficulty in getting good positions for offensive rebounds. There is also a marked tendency to lose control of the ball at inconvenient moments.

Converse has at times displayed ability to hit on hook shots and forward Dick Van Kirk was shooting well in first practices. A little awareness and teamwork may convert our mediocre team into a winner.

### SCIC Standings

	Won	Lost	Pct.
Whittier	4	0	1.000
Occidental	4	1	.800
Redlands	2	2	.500
Pomona	1	4	.200
Caltech	0	4	.000

Next game:  
Caltech at Redlands, Saturday, February 5.

### I. H. Sports

Blacker's favored tennis team coasted to an easy victory in the interhouse tennis matches last Saturday on the Tournament Park courts. When the day's activities were completed Blackermen claimed two undisputed individual titles and shared another with second place Throop. Ricketts, Fleming, and Dabney trailed the two leaders in that order.

Fleming's Bob Tokheim won the first singles title as he barely edged Blacker's Bernie Mueller. Throop's defending co-champion Gerry Hooper, playing with a bad blister and no practice, tied for third with Gary Breitbard of Ricketts.

#### Best Match

A tie resulted in second singles between Blacker's Ralph Miles and Throop's Scott Davidson. These two men played the best match of the day, each winning six games. Both of them far out-classed the rest of the field, each losing but ten games of the 48 they played. Howard Rumsey of Ricketts was a distant third.

Alan Goldberg of Blacker won the third singles title for the second year in a row. Only one game behind was Stan Manatt of Throop. Dabney's Leon Keer trailed in third spot.

Don Evans and Mark Goldenberg of Blacker were easy winners of the doubles title. Throop, represented by Phil Reynolds Paul King, again came in second. Lyman Fretwell and Al Joncich of Ricketts captured third.

#### Big Lead

The tennis victory gave the Blackermen a 25 point lead in the interhouse trophy race and put them in an excellent position to win the "old lady" for the first time.

The interhouse track meet is in just a little more than two weeks. To be exact, there are twelve more days left to get your ten workouts in.

The present standings are:

	Tennis	Total
Blacker	15	75
Dabney	3	50
Fleming	6	47
Ricketts	9	38
Throop	12	30

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## HERE'N THERE IN SPORTS

By Arne Kalm

The first round of the SCIAAC basketball rat race ended last weekend with Caltech's unfortunate three point loss to Whittier and it found the Beavers, defending champions, deeply entrenched in the basement of the league. One conclusion that can be drawn from this rapid demise of the Beavers is that the other teams in the league have improved, while Tech has not.

#### Stars Return

There seems to be a good deal of evidence to support this argument. Six men who made either the first or second all-conference team last year are back for more action this season. They are Bob Edmondson and Bob Pitman of Redlands, Bob Henry and Lyle Swanson of Oxy, Marlyn Davis of Whittier, and Tech's own Bill Chambers. But these men are not the only ones who are making the big noise this year. Throughout the

### Track prospects very promising

Caltech's runners, jumpers, and field event men are busily preparing for the first intercollegiate meet on February 26. Coach Bert LaBrucherie is very pleased with the especially large turnout of freshmen and the prospects shown by both the varsity and frosh teams. Some excellent early season times have been recorded, notably the 10.2 s. 100 which John Lukesh ran.

The schedule of early meets is as follows: Interhouse, Feb. 12; Interclass, Feb. 19; four-way meet with nearby independent lays at Pomona, March 5. colleges, Feb. 26; Conference Re-

league there is a whole flock of junior college transfers and returns from previous years who are playing excellent basketball.

In three of Tech's four league games it has been these new men who have effectively wrecked the Beavers' victory hopes.

Tech lost to Redlands, 86-64. Both Pitman and Edmondson were on the first all-conference team last year, but it was Al Endeman, a transfer from Valley J. C., who poured in 30 points to snow Tech under.

Next the Beavers played Oxy. They lost, 77-60. The Bengals have two men from last year's second all-league team, Henry and Swanson. On their first string they also have two J. C. transfers, Ted Tiffany and Bill Gregory. Henry scored 16 points against Tech, but it was Tiffany's terrific outside shooting which netted 29 points and iced the game.

#### Wohlmuth and Davis

It was the same story against Whittier. Joe Wohlmuth, ineligible last year because of scholastic difficulties, teamed up with Marlyn Davis, probably the top center in the league, to pull Whittier from a 12 point halftime deficit to a narrow three point victory.

In fact, if the all-conference team were made up now at least two new faces would surely appear on it. It is these new men who have made the SCIAAC a lot tougher loop this year, especially for poor little old Caltech!

Guest (to host in new home): "Well, old boy, how do you find it here?"

Host: "Walk right up the stairs, second door on the left."

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# Critic looks at modern art now showing in Dabney

By Dave Hein

Upon walking into Dabney Lounge anytime during the past week, Tech students have probably noticed that the dreary old sign in the doorway has been traded in on a new model. Instead of being requested not to eat his lunch on the premises the by-passer is boldly asked, "What is Modern Art?" A part of the answer is available from the thirteen panels on the walls of the Lounge.

This exhibit, one of the series circulated by New York's Museum of Modern Art, is the fourth to be shown in Dabney this year and it is probably the most interesting so far. The sort of cross-section view that it attempts will not, of course, tell what "Modern Art" any more than peering through a knothole will tell what baseball is; but it may show a little of what the game looks like. Moreover, a few of these knotholes are quite interestingly placed.

Paul Klee's utter nonsense, Yves Tanguy's surrealism, or Piet Mondrian's far-out abstraction may or may not make much immediate appeal to the imagination, but almost nobody could miss Orozco's gorgeously dramatic colors, the nearly superrealistic effect of Cezanne's "The Card Players," or the practically brutal force of Roualt's massive brush strokes.

If these don't appeal either, probably something else will. The easy way to find out is to look.

At grave peril of sounding like a book on "How to Look at Art," one small caution should be made. It is a very common habit, when looking at a painting, to get too close to it. Some painters, notably Klee and many of the surrealists, paint pictures which can stand up under this microscopic treatment; but the Impressionists are trying for a more unified overall effect, which is more impressive at a distance than at the end of your nose.

Lots of people dislike Modern Art. Many just don't ever worry about it. Some think it's the greatest. Whatever class you are in, look around in Dabney.

# Crandall wins double honor

Mr. Shannon Crandall Jr. of Pasadena has been elected to the Board of Trustees of the Institute, and, in the same week, also re-elected president of the California Institute Associates. Mr. Crandall is currently President of the California Hardware Company of Los Angeles, and has been associated with that organization since his graduation from Stanford University in 1924. He is also a director of the Pacific Mutual Life Insurance Company.

Crandall has served the Associates as a director since 1951, and his father, Shannon Crandall, is a charter member of the Associates.

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# ELECTION ON FEBRUARY 24

(Continued from Page 4)

California Tech is responsible for advertising selling and layout, bookkeeping, billing, and financial reports for the newspaper. He receives a 30 percent commission on local advertising and a 4 percent commission on national advertising. He is also a member of the Student-Faculty Relations Committee.

## Big T editor

The editor of the Big T is responsible for the editorial make-up of the yearbook. He receives \$175 for the year's work.

## Business Manager of the Big T

The business manager of the Big T has the job of selling advertising for the annual and making up advertising layout. He also keeps the books and submits the bills. He is guaranteed a 20 percent commission on all advertising sold. If there is a profit, he may make up to 10 percent extra.

"Hey, don't spit on the floor!"  
"S'matter? Does it leak?"

Do you know why the little bee didn't stop at the Gulf Station?

No.  
'Cause he was an ESSO bee.

# Weekend social flings resist threat of mid term exam

Apparently undaunted by the threat of mid-terms, the house social chairmen lead their charges into another weekend of frivolity.

Tastes of the houses are divided equally between theater parties, Fleming and Dabney, and exchanges, Ricketts and Blacker.

## ECONOMY RUN

(Continued from Page 1)

train only.

Last year 60 students went on the run, in the capacity of official AAA observers during break-in runs and the trip itself.

The destination of the run is never announced in advance, but last year the event wound up at Sun Valley, and the year before at Grand Canyon. Dr. Peter Kyropolous, the man in charge here on campus, warns that the event is no picnic, but a lot of work, and those who are seeking entertainment and diversion had best seek elsewhere.

For further information those interested contact: Jan Arps, Blackner; Tom Plambeck, Dabney; Dick Manley, Fleming; or Jim Lewis, Ricketts.

Ricketts will start the weekend with an open house following the L. A. State-Caltech basketball game on Friday. Saturday they will engage the attentions of the oft-invited (second time at Ricketts, following their past weekend's adventure in Fleming House) young misses of South Pasadena.

Blacker offers its hospitality to the Mayfield women for their Saturday exchange. These popular young ladies are back to charm their hosts again as they, too, start another season of social events.

Dabney men will travel 'cross town Saturday for the play "Mr. Roberts" at the Sartu Theater. "The Rose Tatoo" in the Players' Ring Theater will entertain Fleming men and dates, also Saturday night.

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