

Caltech students take to road for Mobilgas economy run

With final exams finished a week early, 46 Caltech students will take off Sunday night on a new assignment: acting as American Automobile Association observers on the 1955 Mobilgas Economy Run to Colorado Springs.

The 22 automobiles entered in the run will compete under AAA supervision for the lowest gasoline consumption. Course and speeds are designed to simulate average highway driving conditions and to show the public which car uses the least gasoline.

According to professor Peter Kyropoulos, chief observer on the three-day run, each observer is responsible for reporting rule violations by the driver of the car to which he is assigned. This prevents the driver from using illegal tricks to conserve gasoline.

Each car has already been driven 2,000 miles under AAA-CIT supervision to break it in for the final run.

The economy run cars leave Sunday night on the first leg of a three day trip. Tucson, Arizona and Albuquerque, New Mexico are overnight stops. After the award banquet Wednesday in Colorado Springs, observers will fly back to California.

Caltech men are used as observers by the AAA because of Caltech's honor system. Most observers were chosen by lot from a list of applicants. Squad leaders who did preliminary work on the run are automatically chosen to go.

The observers will work in pairs, two men in each of the 22 cars. Two men will go as alternates in case of sickness.

Beavers elect new officers

Next year's officers were elected last Thursday at a meeting of the Beavers, Caltech's honorary service organization. President for next year will be Lyman Fretwell with Curt Schulze as vice president. Jerry Crocker will serve as secretary, and Bob Kausen as treasurer. Some of the new members were also chosen at the meeting, and they will be announced in the near future.

The outgoing officers of the Beavers are: Ralph Miles, president; John Merrill, vice president; Curt Schulze, secretary; Rod Supple, treasurer.

Admissions Mill begins to grind as the deans select next year's freshman class

by Bob Deffeyes

Do you remember the day you took the College Board Exams? Next Saturday hopeful high school seniors will take College Boards to try to get into Tech. From the results of this test, the student's grades in high school, and the results of interviews with a member of the faculty, a committee composed of the four interviewers will select the freshman class. What problems face this group and how are the selections made?

The first big question mark facing the group is how many freshmen should be admitted. Facilities allow only about 180

frosh. If CIT sends out 200 acceptances and ten percent do not come, everything is fine. However, the percentage of accepted students is variable over wide limits. A few years ago, Tech missed their guess and wound up with 199 frosh. Why cannot the committee send out 180 acceptances and then fill in each missing place from a waiting list? First of all, Tech has an agreement with most of the other major colleges that no college will ask any candidate to submit a deposit or in any other way ask him to state his intention to come until after a given date. Before this agreement was

Black, Jaschke, Higgins, and Moser are elected prexys

Student house and Throop Club pick officers to lead them for coming year

Myron Black of Blacker, Riley Jaschke of Fleming, Jim Higgins of Ricketts, and John Moser of Throop Club were elected presidents of their respective houses at elections held during the past week. Full slates of other house officers were also chosen. Dabney held its election last night, too late for the

results to be included in this issue of the paper.

In the Blacker elections Black defeated Fritz Benning and Joe Gibbs. Benning was then nominated for the office of vice president and won this race, being opposed by Jan Arps and Don Evans. In the contest for secretary Bruce Blackie won, defeating Reed Saunders. Bob Deffeyes beat six other candidates to win the election for treasurer. Other Blackermen who were elected to office include Jon Harford, John Velman, and George Hall, co-social chairmen; and John Carney, librarian.

Jaschke defeated John Meyers and Jim Snyder to win the Fleming elections. Warren Furumoto was elected unopposed to the office of vice president, and Bill Davis was similarly elected social chairman. Joe Fineman beat

(Continued on Page 4)

Tau Beta Pi initiates nine at steak feast

Tau Beta Pi, honorary fraternity, initiated two seniors and seven juniors in ceremonies conducted Monday. A steak dinner at Monty's Steak House climaxed the proceedings.

Dr. Richard Feynman addressed the organization at the dinner, speaking on his experiences at Los Alamos. A short humorous skit by the new initiates was also on the evening's entertainment.

Seniors Stan Manatt, and Eugene Dryden, and juniors Ray Weymann, Ray Orbach, John Young, Myron Black, Paul McHorney, Dick Johnson, and Chuck Bodeen are the new members.

Present officers presiding over the initiation are John Merrill, president, Stanley Grotch, vice president, and George Madsen and John Andelin, secretaries. Ev Eiselen and Howard Berg acted as pledge masters.

Tau Beta Pi is a national honorary fraternity for engineers and scientists, analogous to Phi Beta Kappa, which serves a similar function in other fields.

Initiates are selected on the basis of scholastic excellence and outstanding character. Initiation is conducted twice a year.

Friday deadline for honor point lists

This Friday, March 11, is the deadline for Caltech students to apply for honor keys or certificates. These awards are given students as recognition for outstanding participation in extra-curricular activities. A total of 100 points is needed for an honor key and 50 points are required for a certificate. Points, as awarded for various activities, can be found in the **Little T**. Points are also awarded for activities not listed. Anyone who feels that he deserves unlisted points should evaluate the points desired on the basis of time spent and importance of the activity.

Applications, listing points desired and the reasons for awarding the points, should be made to Vince Marinkovich in Ricketts, Bill McDonald in Blacker, or Bob Kausen in Dabney before the Friday deadline.

Dean Eaton, Conley, Berg will attend college confab at MIT

Phil Conley, as ASCIT president, and Howard Berg, new vice president, have been selected to attend, along with Dean Eaton, the MIT conference on "Selectivity and Discrimination in American Colleges" March 25 to 27 in Cambridge, Massachusetts. Representatives from 80 selected schools from all

sections of the country will attend the three-day meeting sponsored by the MIT undergraduate body.

The purpose of the conference is to stimulate awareness of discrimination as a national problem and to provide a means for colleges to exchange their particular local problems and their approaches to them. Discrimination in admissions and segregation on the campus will be under discussion. Since acute minority problems have not risen at Tech, Conley and Berg hope to trade ideas on other campus problems as well as on the conference topic.

Keynote speakers will be Dr. James R. Killian, Jr., president of MIT, and Dr. Frederick May Eliot, president of the American Unitarian Association. Other notables on hand for the sessions include Dr. Everett C. Hughes, chairman of the Department of Sociology, University of Chicago, and Dr. John Hope

(Continued on Page 6)

Physics club meets tonight

"The Life Cycle of the Photon" will be the topic of this week's Caltech Physics Club meeting. Dr. Alvin V. Tollestrup, assistant professor of physics, will be the speaker at the meeting, which will be held at 100 Kellogg tonight at 7:30 p.m.

Also on the program for tonight's meeting will be the election of permanent officers for the club. The present set of temporary officers is headed by Fritz Trapnell, president, and Lyman Fretwell, secretary-treasurer.

Arts and crafts to be exhibited in Dabney Hall

The 1955 version of the Caltech Arts and Crafts show will be presented March 30, 31, and April 1 in Dabney Lounge. Following the pattern set by last year's exhibit, the show will feature exhibits from the fields of photography, fine arts, ceramics, jewelry, models, and other creative hobbies.

Last year the show featured such outstanding highlights as a scale model steam locomotive, photography by the Caltech Camera club, and a gunnery exhibit. Dabney Lounge will be open to spectators from noon to 6:00 p.m. and 7:30 p.m. to 10:00 p.m. Wednesday and Thursday, March 30 and 31. On the last day of the event, Friday April 1, the show will be open from noon to 10:00 p.m. Refreshments will be served Thursday and Friday evenings.

Work by exhibitors from Caltech, Huntington Library, Mt. Wilson, Palomar Observatory, Jet Propulsion Lab, and Cooperative Wind Tunnel will be on display in the Lounge for the three days of exhibition. Members of the families of anyone connected with the above institutions are also eligible to participate.

Additional information and entry blanks can be obtained from Mr. Easley in the division of personnel on campus, Dave Browne at Jet Propulsion Lab, or Elizabeth Fairfield at Cooperative Wind Tunnel.

Elections soon for Y officers

The Caltech Y will elect officers for the coming year when school opens for the third term. Elections have been scheduled for Wednesday, March 30. Nominations are still open and the Y encourages anyone interested in holding office to run. Those interested in running should contact Ted Matthes before the end of the current term.

Elections will be held one office at a time and those defeated for one office are eligible to run for lower offices. Caltech students who have been active in the Y are urged to vote for the candidates of their choice.

Candidates to date are: president, Chuck Bodeen; vice president, Fritz Benning; secretary, Don Lee, Don Pinkerton; treasurer, Pete Lauritzen, Don Reiterman; publicity manager, Mike Bleicher, Jim Workman; national representative, Frank Albini, Dick Ashby, and George Oetzel.

Tech jackets here; available Friday

The official Caltech student body jackets, which were ordered late last January, will be distributed tomorrow in the student houses. Announcements will be made in each house to give further details as to where the jackets will be available. Those who ordered them should be prepared to pay the cost of \$12.00 when they pick up the jackets.

According to ASCIT athletic manager Phil Conley, those who didn't order their jackets earlier will have a chance to place an order at the beginning of next term.

(Continued on Page 6)

California Tech

Editors-in-Chief—Tom Bergeman and Lyman Fretwell

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

A timid protest

Two recent events, one national, one local, show that our ideals of free press and free speech have lost another battle. They were crushed a little more last week by that powerful titan, National Security.

The first blow came when the New York City Postmaster announced that postal authorities were destroying most Soviet publications sent to individual subscribers in this country. Only a "negligible" number were authorized to go through to government agencies and research institutions. This announcement was a blow to those of us who believe America can and should be able to maintain its strength even in the face of newspapers from communist Russia.

All this talk about free speech and the security system came even closer to home a few days later when one outraged undergraduate drafted a letter to the postmaster general protesting this undemocratic action. After reading the letter in a student house meeting, the consensus was that although the criticism was certainly justified, it would be dangerous for any house member to sign such a letter of protest if he ever wanted a job requiring clearance.

It would appear that men have become so censored under the security system that even scientists-to-be, college students, normally the most irrepressible of radicals, are too afraid to even protest a government action. Slowly government power is overstepping its bounds and entering the area of thought policing.

That is why some post office official will be surprised to see in his mail a forceful letter of protest—unsigned. It will be accompanied by a brief note with some forty signatures, explaining the roundabout solution to the problem: "We would condemn your new restriction like this, but we're afraid to."

Message from vice president

Standing on the threshold of another finals week, it might be a good idea for all of us to give some serious thought to the Honor System and where it applies. In doing this, most of us immediately think of copying on a test or, in some other way, dishonestly claiming credit for someone else's work. This is fine, since this is certainly one of our most important responsibilities under the Honor System.

Druing a test, I think it is also important to be considerate of our classmates who are taking the test with us. Loud, unnecessary conversions can be quite distractful.

Another consideration has to do with smoking. Even a heavy smoker finds it distasteful to have clouds of smoke engulfing him. Think, then, of the non-smoker. If you feel that you need a cigarette, why not take a five minute break and step outside to smoke?

Above I have named just two of several poor test habits of which I find the Tech man guilty. These things are not really intimately connected with the Honor System. They come more under the heading of, "Consi-

Campus Brewins

"No more privacy than a goldfish."

—"Saki" (H. H. Munro)

New Ashmolean

Last Saturday night a large percentage of the student body may have been disturbed by some strong vibrations of the buildings at about one a. m. The commotion was not caused by a seismological movement but rather by an ardent group of Fleming musicians who were making a grand tour of the student houses. It all started when Bill Davis managed to get hold of a base drum (some think it used to belong to Dabney) and after playing a few sweet notes the musical talent of Fleming, enthused by the beautiful melody, assembled together into a twenty-piece percussion band which included some instruments almost extinct from the modern orchestra such as snapping leather belts, bottles, tin

plates, garbage cans, and so forth. The slightly humid reception of Blacker did calm down their exhuberance a bit and by the time the Pasadena Police got to the scene everybody (with the exception of Davis) was as quiet as ever. Maybe next time Davis will be convincing enough to get a reserved bed at the 69th precinct.

Preview of Friday Lunch

John (Bring 'em back alive) Velman's octopus, captured after a stirring encounter a Corona Del Mar Sunday expired last night. Sylvania (or) Sylvania P. Slitherforth pined away in captivity, toward the last refusing even the tenderest of crabs thrust at him by the eager Velman. Biology snake McLaughlin clamored for dissection, and before humanitarian Bodeen could interfere the dastardly deed was complete. Even now Slitherforth's hallowed remains lie here and there about Blacker's Hell Alley. McLaughlin, lost in scientific research, was last seen offering Sir Phipps some suspicious looking anchovies spread on Ritz crackers.

eration for Others."

In conclusion, I would like to caution everyone against forsaking these principles during a moment of weakness. Finals week is the greatest test for our System. It needs the support of all of us.

V. A. Marinkovich
 ASCIT Veep (lame duck)

A Campus-to-Career Case History



"This is what I did yesterday"

"I like a job that keeps me jumping," says Bill Jermain, C.E. from Marquette, '52. "And my first management assignment with Wisconsin Telephone Company does just that. I'm Service Foreman at Sheboygan, with nine installers, and that means variety of responsibility. But judge for yourself. Here's a quick run-down of what I did yesterday, on a typical day—

8:10—"Checked day's work schedule. One of my new men was putting in a buried service wire, and I went over the job specs with him to be sure he had things straight.

8:30—"Answered mail while my clerk checked time sheets from previous day.

9:30—"Out to supervise installation of the first aluminum Outdoor Telephone Booth in my exchange. Reviewed the assembly instructions with the installers, then arranged for special tools and bolts to be delivered to the job.

11:30—"Drove across town. Made a complete 'quality inspection' on a telephone we installed last week. Everything checked O.K.

12:00—"Lunch.

1:00—"Picked up film for next day's safety meeting. Watched the film, made notes for discussion.

2:00—"Met with moving company manager to estimate cost of telephone cable lifting for a house moving job. Drove the route he had planned and worked out schedule for construction crews.

3:30—"Returned to aluminum booth installation. Went over wiring specs with the electrician.

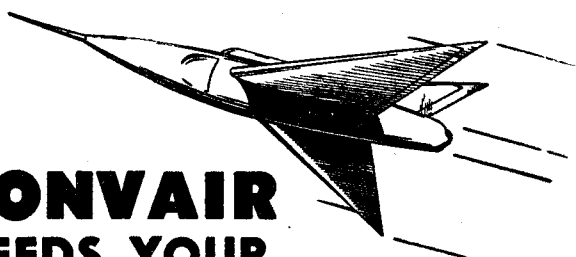
4:00—"Stopped at Central Office to pick up next day's orders. Met installers at garage as they checked in and assigned next day's work."

Bill has been in his present job about a year, and is looking forward to new responsibilities as his experience increases . . . as are the many young college men who have chosen telephone careers. If you'd be interested in a similar opportunity with a Bell telephone company . . . or with Bell Telephone Laboratories, Western Electric or Sandia Corporation . . . see your Placement Officer for full details.



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FARRAGO

Critic looks at first issue of new humor magazine

by Scriblerus

The **Hot Rivet**, the yearly abortion produced by the retiring **California Tech** editors at a grand and glorious beer bust, is no more. The grand old days of the extra special edition of the paper, which was as close as **Tech** ever came to a humor magazine, are gone. This year, the eagerly awaiting foul minds of our student body found instead of a mock newspaper, the first issue of **Farrago**, a real honest to God college type humor magazine.

Just in case you haven't had time to run to your dictionary: **Farrago** is a real legitimate like word found in even the smallest editions of **Websters**, which means, "Medley, hodge-podge, or conglomerate collection."

The maiden issue of the new magazine was released yesterday, with its bright blue cover and full thirty-two pages. With fewer than the usual number of stolen jokes, and with dirt which is at least subtle, the first issue approaches the high-minded visions of the editors — sophistication.

It would be unfair to say that we doubled over with laughter as we skimmed the pages, but we did get some good little chuckles here and there. For example, "Small-Time Football" is a pretty clever little satire on an article about **Tech's** own dear football coach in last December's "Saturday Evening Post." Vive la football.

The standout feature of the first issue which is worth the price of the whole magazine is the "Minutes of the Faculty Committee. . ." The boys are able to calm their bitterness enough to produce a really funny jibe at the student complaints problem.

It is encouraging to see a serious attempt at objective criticism, done in a very polished style: ie the story entitled "Our Modern Campus." The tradition of Jonathan Swift lives on!

The Movie Review is great — just great. Ernie Dernberg, the stupid looking guy holding the parakeet and looking like Marlon Brando, was perfect. The two-page center spread of comely lasses from hereabouts boosts **Farrago** up into the big time. Every college humor magazine has pictures of girls—but these girls were neater than usual.

Really though, our first **Farrago** was full of little goodies. The Student House food protest, the mock newspaper, the room-stacking story—all clever in varying degrees.

The magazine is available free to undergraduates. (They have already paid for it whether they know it or not). Additional copies are on sale in the Book-Store for a mere \$0.25.

Scriblerus, the anonymous critic, salutes the staff of **Farrago** and gives them his best wishes for a successful future.

Dr. Ellis to discuss Cavitation bubbles

Dr. Albert T. Ellis will explain how high speed photography is used in studies of strain waves and cavitation bubbles at the Friday evening demonstration lecture this week. The lecture will be given at 7:30 p.m. in 201 Bridge.

Cavitation, a phenomenon which occurs when objects move through a liquid at high speed, results in the formation of bubbles which suddenly appear, grow, collapse, appear again and collapse again resulting in damage to the object. Dr. Ellis will show pictures taken at 400,000 frames per second in studies made to understand and control the process. He will also demonstrate cavitation on a laboratory scale and show a color film on sound-generated cavitation.

Dr. Ellis, a senior research fellow in engineering at Caltech, received his BS, MS, and PhD degrees here.

Caltech debaters reach semi-finals

Caltech placed two teams in the semi finals of the men's lower division debate section at the Pepperdine Debate Tournament last weekend. The two teams, Mike Bleicher and Rube Moulton and Gene Cordes and Andy Perga, reached the semi-finals and finals and gained a certificate of excellence by winning two and losing two debates. Both teams were defeated in the semi finals.

In upper division men's debate, Bill Lindley and Myron Black received a certificate of excellence for their debating in the preliminaries. Tom Gunkel and Mike Gray, lower division team, failed to reach the semi finals.

The World and Tangora

by Ludwig van Tangora

I heard the other day from Vince Marinkovich that there was some consideration being given in the humanities department to starting a course in music history and appreciation at Caltech.

Nothing could be better news.

No; that is not exactly right; a great many things could be better news. But this is certainly the best news I've heard about the curriculum since they gave up physicists' Swift lab.

I have always been amused by the great pretense which our administration makes about their

broad program in the humanities. If you will check with your catalog, you will discover as I did (much to my dismay)

that there is not one single course in art or music in the whole damn school. Humanities! Technical Report Writing is offered, and Literature of the Bible (I hear they got all of five people out for that one), and Current Tendencies in European Philosophy. But music and art are not worth our time. It is more important that we know how to solve frosh chem problems (though only a fourth of us ever use any frosh chem after frosh year) and to solve second-order differential equations with series solutions (there are easier ways to solve them but this way is good practice, good training for the mind). These things make more worthwhile pursuits than just a rudimentary appreciation of art and music.

I was in talking to Dean Strong last term about how guys around here who were interested in music were discouraged

from the start. He explained that Dr. Hallett Smith, boss of the humanities department, did not think there was any interest in a course in music.

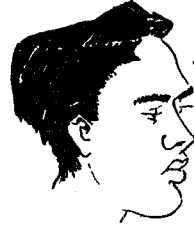
It seems that very few students turn out for chamber music concerts, and Dr. Smith considers this proof that there is little musical interest in general!

I would like to ask Dr. Smith how many members the Musicale has right now. I am sure the number exceeds 100. No interest? It may get through the heads over there in Dabney some day that chamber music is a sophisticated, advanced type of musical program, which can hardly be expected to appeal to large numbers of scientists and engineers who have no basic music training.

Another reason that Dr. Smith doesn't want to try out a music course is that he tried one a few years ago and it flopped. That's really a valid reason. Some courses in the humanities division flop every year! But they keep coming back for more, because we have someone on the staff who likes teaching them.

I for one am all out and raring to go about this music business. It will be that much less irony every time I see the word "humanities" used around Caltech. It will be that much more opportunity to pick up just a few wee things besides problem-solving in my college "education."

Maybe it will even be proof that the student body at Caltech can get what they want if they fight for it hard enough.



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Budding engineers travel to industry to gain education

by Bob Deffeyes

Almost every other week, a group of Tech students, primed with curiosity and eager to ask questions, take off for an afternoon of visiting a nearby industrial plant. The Chemical Engineers Club, organized and spark-plugged by Dr. W. H. Corcoran offers a tremendous opportunity to become acquainted with all sorts of industrial processes.

A part of this job of extra-curricular education is carried out by bringing industrial executives here for informal luncheons before the plant visit is made. Then the student tourists get a chance to see exactly the type of work the speaker was talking about.

Not long ago the club went to a glass plant operated by the Libby Division of Owens-Illinois. In their three hours there, they were able to follow the production processes for making all kinds of glass products, from bottles to water glasses with the little script L on the bottom. This particular trip was highlighted by being able to see the insides of one of the monstrously complex molding machines which had been torn down for repairs.

Last term almost one hundred percent attendance was assured when a trip to the Azusa plant of the Lucky Lager Brewing Company was announced. The little jokes about free samples flew thick and fast, but the visit to the tap room at the end of the tour made sure that everyone would go away with a tender place in their hearts for the Lucky Lager people. Seriously, though, the club members were able to get a little better insight into some of the production problems involved in such a large operation. The plant was almost completely mechanized, with grain and hops going in one end, and full bottles of beer coming out the other, with very little human control in the process.

Earlier this year, the Long Beach plant of Proctor and Gamble invited the fellows to come down. Soap was the chief object of interest, from the carloads of raw materials to the packaging line with more than a hundred boxes a minute coming out of the automatic chutes. Besides getting something of an idea of what working for Proctor and Gamble might be like, the plant activity gave a real

life impression of modern mechanized industry.

The underlying philosophy of the group is that when Tech graduates go into the world of industry, they may be whizzes at knowing the difference between a weber and an ampere, but simple academic course work can't teach anybody what goes on behind the walls of industry. Not only chemists, but all future engineering workers get to see how their training fits into the overall production team.

Dr. Corcoran and his Chemical Engineers simply try to take advantage of the opportunities of the diversified industries of Southern California. A broader outlook on the whole job picture, plus a familiarity with how everything from soap to rubber tires are made, is the goal of this organization. It stands as another facet of Tech's educational program.

HOUSE ELECTIONS

(Continued from Page 1)

Louis Soux and Dave Yount in the secretarial race; and Herb Rauch was picked as treasurer over four other candidates. Fleming also elected Hunt Holladay and Larry Whitlow as co-athletic managers and Richard Herlein as librarian.

In the elections at Ricketts Higgins defeated Dick Johnson and Lyman Fretwell. Chuck Helsey was elected executive vice president, defeating Dave Tansey and Ross Brown. In the election for social vice president the trio of Jim Mebust, Rube Moulton, and Jerry Swedlow defeated the duo of Gene Cordes and Bob Mitchell. The Rickettsmen chose Byron Johnson as treasurer over Howard Bloomberg and Bob Gelber. Marty Tangora was elected secretary, and Chuck Bonwell and Bob Walsh were elected co-athletic managers; all three of these men were unopposed.

Moser was elected Throop Club president over Chuck Sargent. In the race for vice president Jim Lloyd beat Stuart Bowen. Other men elected at Throop Club included Dick Cooper, treasurer; Mike Duke and Gene Nelson, co-social chairmen; and Paul King and Mike Rusch, co-athletic managers.

Interview Schedule

MARCH

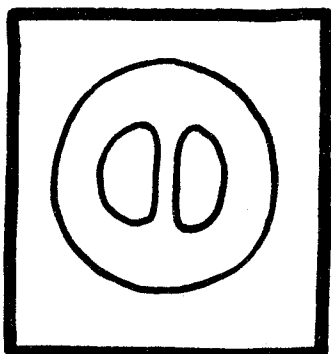
Thurs., 10—BS, MS, PhD/Ch, ChE The Dow Chemical Company. Most positions are in Midland, Michigan however, there are a limited number of openings at Pittsburg, California and Freeport, Texas.
Thurs., 10—BS/ME, Ph Detroit Controls Corp., Redwood City, Calif.

Thurs., Fri., 10, 11—BS, MS, PhD/Ph, Ch, EE ME, Ma Los Alamos Scientific Laboratory, Los Alamos, New Mexico.
Fri., 11—BS, MS, PhD/Ph, Ch, Ma, ME, EE, Ae, ChE, CE Board of Civil Service Examiners, Interviews being conducted for the following Laboratories: NOTS—Pasadena and Inyokern (China Lake); Point Mugu, Port Hueneme; Naval Electronics Laboratory, San Diego; and the Corona Laboratories.

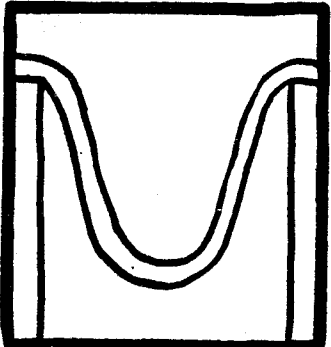
MECHANICAL DESIGN ENGINEERS

Positions available for qualified mechanical engineers: The Radiation Laboratory at Berkeley and Livermore employs over 100 mechanical engineers engaged in the design of a wide range of equipment for use in fundamental and applied scientific investigation. This work includes nuclear and thermonuclear test devices and instrumentation, high energy particle accelerators, ultra high speed cameras, large scale high vacuum equipment, devices for remote control in high radiation fields, equipment for remote handling and processing of radioactive materials, and accessory equipment for nuclear reactors. Organization is on a project basis with close contact between engineers and scientists and the extensive laboratory shops. Emphasis is not on designing for production manufacture. The work calls for an understanding of the principles and ingenuity rather than the application of standard practices. The projects of the laboratory include practically all aspects of nuclear engineering.

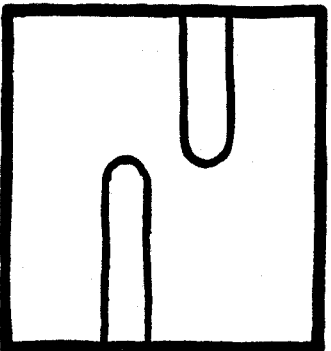
Inquiries Should Be Addressed to
Professional Personnel Office
University of California Radiation Laboratory
Berkeley 4, California



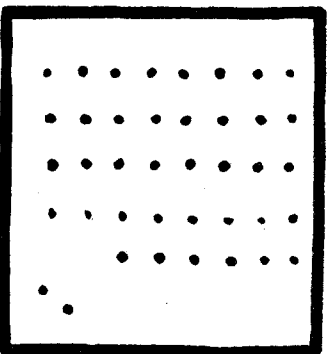
SIAMESE DOUGHNUT
William F. Stephens
Florida State University



WORM CROSSING DEEP CRACK
IN SIDEWALK
Nancy Reed Ingham
University of Washington



MEETING OF CHINESE AND
AMERICAN OIL WELLS
Gary A. Steiner
University of Chicago

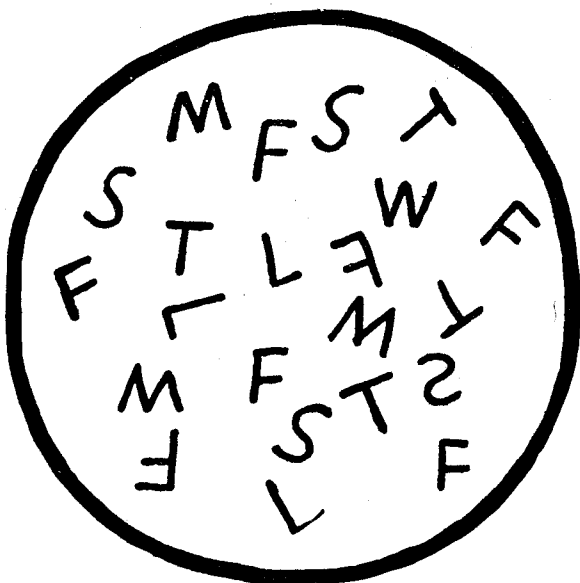


2 ARMY ANTS GOING A.W.O.L.
John J. Phelan
Boston College

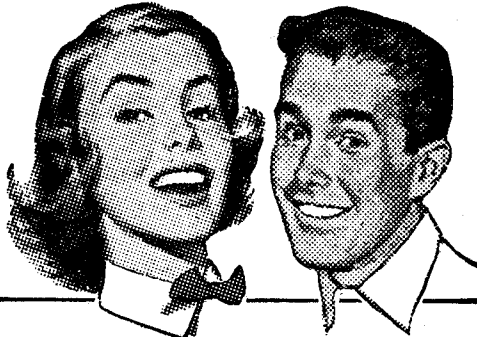
LUCKY DROODLES! GET 'EM HERE!

WHAT'S THIS? For solution see paragraph below.
Droodle suggested by Norman Gerber, C. C. N. Y.

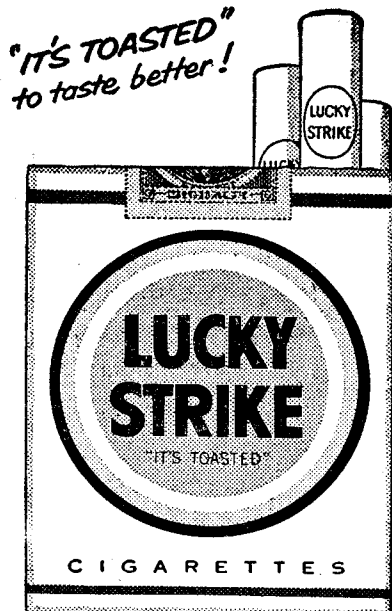
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Tech tracksters second in All-Conference Relays

Six meet records broken as Oxy spikers romp; Conley wins javelin

Caltech varsity tracksters took second place in last Saturday's record studded SCIC Relays at Pomona College. Occidental powered to their expected lopsided triumph, scoring 79 points to Caltech's 28½. Pomona-Claremont followed with 26½, Whittier 21, and Redlands trailed with 7 points.

Phil Conley tossed his new javelin 204'8¾" to break his own meet record of 199'2½". This event was the only one in which Oxy did not gain at least a tie for first place. Oxy men broke five other meet records, indicating that they have one of their strongest teams ever. Tiger Jim Mathias flipped the discus 155 feet, Phil Presber broadjumped 24'1", Bob Gutowski cleared 13'8¾" in the pole vault, and Dick Haddon went over 6'4¾" in the high jump; all for meet records. Mathias and Ernie Smith of Pomona tied for first in the shot put at 48'4", the only field event in which the old meet record was not broken.

The Oxy four man mile relay team cracked off a 3:17.8 time, breaking the old mark of 3:17.9. The Oxy frosh mile team ran 3:22.4 to break the frosh meet record, and Tigercub Dan Couchman soared over 13'2" to smash the frosh pole vault record.

Runners place

The Beaver runners showed very well, taking second in all three baton events, the 880 relay, mile relay, and distance medley. The distance medley team turned in an 11:02.9 time, with Marty Tangora giving a 53.5 440 lap, Rod Supple a 2:04.5 880, Don Lewis contributing a 3:21.4 1320, and Fred Witteborn anchoring with a 4:43.5 mile. Tech beat third place Whittier by over sixty yards.

The Tech 880 team of Jim Tyler, Arne Kalm, Roger Wileman, and John Lukesh cracked off a 1:30.0 to just edge Whittier for second. Wileman ran the key leg, passing the Whittier man around the third turn.

The Beaver mile relay four-some put together a 3:25.3 race, the best around here for quite some time. Don Lewis boomed a 51.4 first lap, gave the baton to Lukesh who did his lap in 52.5, then Wileman ran a great 50.0 lap, and Supple anchored in 51.6. The team's fine showing earned them a place in this Saturday's AAU Relays at East Los Angeles Junior College.

Wade clears six feet

Beaver Phil Wade surprised everyone by going over 6 feet in the high jump to tie for second place with Gilliland of Oxy. Wade's performance was perhaps the key point in Tech's victory over Pomona, for only two of Pomona's bevy of fine high jumpers were even able to place. Jim Lloyd of Caltech came through with a third in the pole vault, and Bob Norton picked up fifth in the same event.

John Lukesh took fourth in the 100 yard dash, which was

the only individual race run. Jim Tyler had bad luck when he fell coming out of the starting blocks in his preliminary heat. Tyler also competed in the jumps, getting a tie for fourth in the high jump and fifth in the broad jump.

Frosh winner

Gordon Barienbrock was the main point winner for the Tech frosh, clearing 5'10" in the high jump for an unexpected first place tie. He also took third in the broad jump. Dick Van Kirk picked up fifth in the broad jump, and Bruce Kowol was fourth in the javelin. The Beavverbabe teams took fourth in each of the three relays.

Oxy easily won the frosh meet with 70 points to Redlands' 31, Pomona - Claremont's 28½, and Tech's 16½. Whittier did not enter a frosh team.

Tomorrow afternoon Tech has a home triangular meet with Occidental and Whittier. The meet will be scored as three dual meets. Come on out to Paddock Field tomorrow afternoon and see three meets for the price of none.

Beaver netmen lose to Tigers

The Caltech tennis team ran headlong into a brick wall at Oxy last Saturday. A red-hot Tiger team mowed the Beavers 9-0. Dick Schmid played the longest match of the day — and with a sprained ankle. The score was 8-6, 7-9, 9-7. Tech's third doubles team of Ralph Miles and Al Poisner also played a two-hour match as they bowed, 14-12, 4-6, 6-2.

Tech tackles Whittier this coming Saturday on the Tournament Park courts in the last match of the term. Whittier also lost to Oxy, 9-0, so it ought to be a good match.

Golfers drop match to UC at Riverside

Caltech's golf team traveled to Riverside last Friday and dropped a match to the host University of California (Riverside Branch) team. Again Tech was hampered by the lack of a whole team and this gave the home team the victory.

Tomorrow afternoon the Tech team entertains Long Beach State at Brookside Park, Tech's home course. Then they take a two week break for finals and vacation before starting the conference season against Pomona on April 1.

Caltech nine comes through with easy win over LaVerne

Caltech's varsity baseballers pounded out an easy 8-2 victory over LaVerne College last Saturday on the losers' field. The Beavers iced the game away in the top half of the first inning with four big runs. Ed Berry opened with a double, Jim Koontz was hit by a pitched ball, and then Ray Weymann, Dick Wagenseller, and Hal Morris followed with consecutive singles. Tech got only one hit for the rest of the game, but they scored four more runs as the Leopard fielders couldn't hold the ball. LaVerne's total of ten errors let in single runs in the fifth and sixth innings and two final runs in the top of the ninth.

Ray Weymann pitched the first six innings for Tech, striking out ten while walking none, and he gained credit for the victory. Hunt Holladay finished off the game, neither walking

nor striking out anybody. Both of LaVerne's runs were unearned, one coming off Weymann in the fourth and the other off Holladay in the seventh.

Tech outthit

The home team actually outthit Tech, 8-5, but they couldn't put them together for many runs. Tech's five hits were evenly distributed, with Berry's double being the only extra base hit.

The Beaver team starts the quest for the league championship on March 28, the Monday after vacation with a game against Whittier. In the past Tech's big stumbling block has been ineptness in the field. This year again it will be the big problem. The pitching is strong and the hitting is adequate. If errors stay down at a minimum, Tech may surprise a lot of people in the league race.

I. H. Sports

Dabney splashed to a narrow two point victory over Fleming in the annual Interhouse swimming meet held last Thursday in Alumni Pool. The final score was Dabney 40, Fleming 38, Blacker 30, Ricketts 28, and Throop 2.

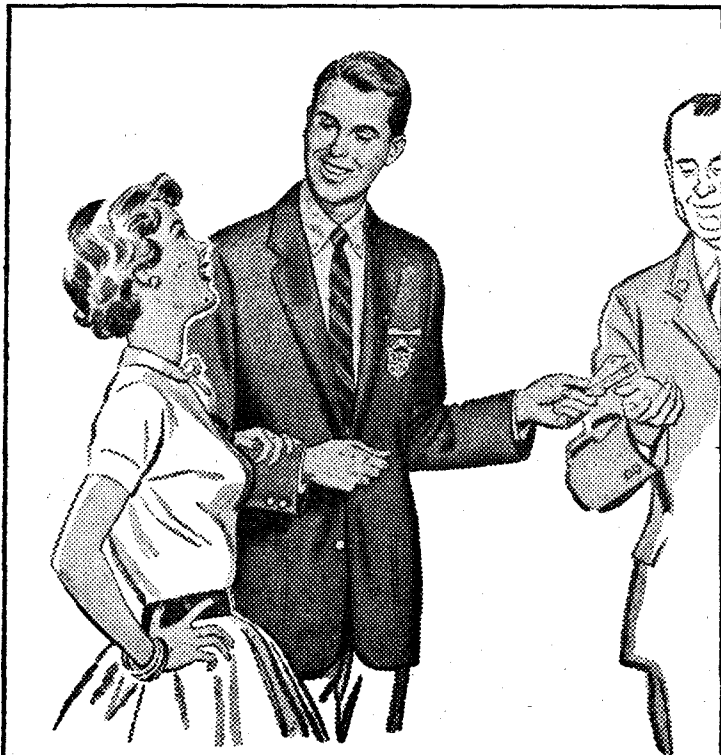
Dabney won the opening event of the afternoon, the medley relay, and followed with a second and fifth in the 50 yard free-style to take a lead which was enough to carry them to victory. But it was Fleming who produced the fireworks with two double winners.

Horace Furumoto stroked to victory in the 50 and 100 yard freestyle events and Howard Hilton of Dabney edged out Dave Netboy of Blacker for second in both of these events. Don Wieberg of Fleming was the other double winner as he took

(Continued on Page 6)

PASADENA BOWLING LANES

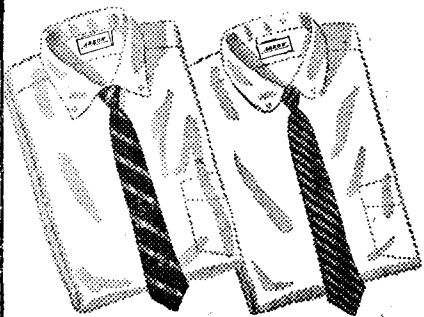
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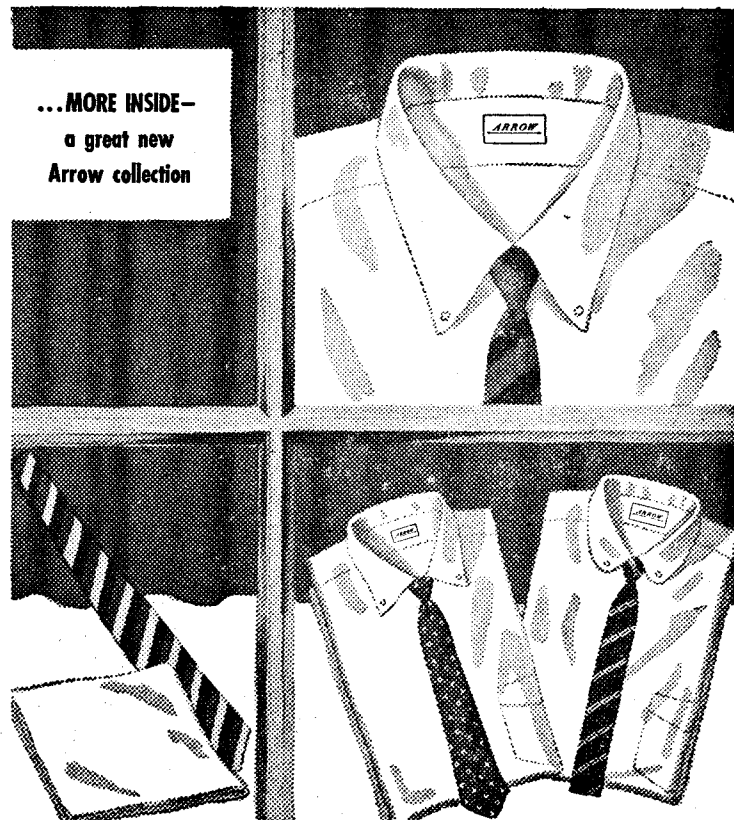
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Whittier dance open to Tech

Techmen and their dates are invited to dance to the music of Les Brown and his "Band of Renown" at Whittier tomorrow night. The dance, which is a Whittier Student Union benefit, is being held in the Whittier High School auditorium, starting at 8 p.m.

For the dance Brown, whose orchestra is nationally known, will feature Butch Stone, Stumpy Brown, and Joann Greer. Tickets for the affair are \$1.50 per couple and can be obtained at the door, or by calling OX 4-2095. Anyone wishing further information may contact Dick Morse, the new ASCIT first representative.

ADMISSIONS

(Continued from Page 1)

the admissions committee meets. After the interviews are over, the committee reassembles in Dean Jones' office to burn the midnight oil for a week. First the committee has about 100 students each year which they admit almost immediately. After these first 100 are selected, the committee then tries to pass out scholarships to the right individuals. Each interviewer has previously selected certain students as probable candidates for the big scholarships, such as: Sloan Fund, Lockheed Aircraft, etc. Following this, the other scholarships are given out on the basis of need and rank among the first 100 students. Next, the committee discusses which students should be the next 100 acceptances. The total operation takes all of the days and several hours a night for a week.

One of the biggest problems which faces the committee is that of finding students who are sincerely interested in science or engineering. All information which the student has on these subjects has been second hand. The interviewers try to be sure that the student is definitely interested in these fields and feels that CIT is the place to advance his knowledge. In this manner, the possibility of getting students here who complain about everything that they are asked to learn is minimized. This factor is the basis of the Tech interview system.

DEAN EATON

(Continued from Page 1)

Franklin, professor of history at Howard University and a writer on Negro problems.

Tech delegates will leave here the week after finals arriving in Boston some time before Friday, March 25, the first day of the conference. The keynote address is Friday afternoon, with plays and concerts on the program for the evening. Saturday the delegates will knuckle down to the problem, with two plenary gatherings on "The American Scene" and "Attitudes and Viewpoints" interspersed between discussions in which delegates will break up into smaller groups to talk over the problem. A forum on "Selectivity in Universities," a discussion period, and a summary plenary session are on the agenda for Sunday.

Transportation expenses are shared by schools attending and by MIT, which has been given a special fund for the conference.

LITTLE MAN ON CAMPUS

by Dick Bibler



"Let's get in this long one—they're either lined up for a 'snap' course or a good teacher."

Frosh Sports Roundup

Tech's frosh nine lost its opening game to Pasadena Nazarene 11-5 Saturday afternoon. John Baker was the losing pitcher, allowing eight runs, five of them earned, in four innings. Tony Howell finished the game.

Most of the Beaver's runs came when Dave Leeson singled with the bases loaded and the ball bounded past the center-fielder. All four men scored. The game was played on the Tech diamond but Nazarene acted as host team.

Meanwhile the tennis squad was losing 9-0 to Occidental on the Tech courts. Oxy won every set with only Bob Tokheim forcing his opponent to twelve games in one set.

won the diving over Hunt Small of Ricketts and Carver Mead of Blacker.

Going into the freestyle relay the Big Red team held a two point lead, but Dabney took second while Fleming trailed in fourth to give the Darbs the meet victory. Blacker's team of John Converse, Ken Laws, Gene Dryden, and Dave Netboy won the freestyle relay. At the end of second term competition Blacker still holds a commanding 24 point lead over Dabney and Fleming trails in third place, 40 points behind Blacker.

| | Before Swim | TP |
|---------------|-------------|----|
| Blacker..... | 100 | 9 |
| Dabney..... | 70 | 15 |
| Fleming..... | 57 | 12 |
| Ricketts..... | 53 | 6 |
| Throop..... | 35 | 3 |

I. H. SPORTS

(Continued from page 5)

both the backstroke and breaststroke. Clint West of Dabney was second in the backstroke and Rafn Stefansson took second in the breaststroke to give Fleming 10 points in that race.

George Madsen of Dabney put on a nice exhibition as he easily

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