

CALIFORNIA TECH

California Institute of Technology

Thursday, March 31, 1949

TAUBATES
DINE
FRIDAY

No. 21

Volume L.

Initiation Period Ends For Twenty-Two Taubate Pledges

Athenaeum Banquet to Be Climax of Pledge Activity, Ernest A. Moritz to Speak on Colorado River Project

This evening Tau Beta Pi will initiate 22 new members into the society in an impressive formal initiation banquet at the Athenaeum. Ernest A. Moritz will address the meeting and the pledges will present their required skit for the amusement of the older members.

Election

The Caltech chapter of Tau Beta Pi elects new members each year from the upper eighth of the junior class and the upper fifth of the senior class. These men are elected near the end of the first and second terms and must serve a three week initiation period before becoming active members.

The pledges started their initiation just before finals last term during which a large copy of the Tau Beta "Bent" could be seen hanging above the front steps of Throop. In addition to the raising of this symbol, the new pledges are required to obtain the signatures of all the active members on campus and the signatures of an additional number of Tau Bates to obtain a total of one hundred twenty-five. They must also polish up a bronze casting of the bent and prepare a skit to be given at the banquet.

New Pledges

The new pledges are: Galt Buhler, Booth, Albert Eschner, Jr., Carl Edward Fox, Jamre Basil Gerhart, Lester Kepner Goodwin, Jerome E. Jacobs, Walter John, Max Vernon Mathews, Irving Lee Odgers, Ronald Lewis Quandt, Virgil Jones Sims, Jr., Victor Anton Jacobus van Lint, Werner Boris Riesenfeld, Edsel Augustus Worrell, Juniors.

Franklyn Harold Brady, Alvin Leonard Cohen, Paul Bernard Harris, Louis Katz, Robert Allen Sinker, Don Eldon Six, Donald Eugene Tryk, Thomas Albert Turner, Seniors.

Active Membership

After having successfully completed their initiation duties the new pledges will be brought into active membership in a formal initiation followed by the Athenaeum dinner with the older actives.

The speaker for the evening will be Ernest A. Moritz, Regional Director of the Bureau of Reclamation at Boulder City, Nevada. Mr. Moritz will speak to the assembled Taubates about the Colorado River project, its completed phases and its proposed projects.

New Fleming House Officers Selected

In an election notable for the large number of candidates running for office, Fleming House elected its officers for the next term last March 15. Four or more candidates ran for each of five offices.

Bill Cox was elected president and Dick Bennett vice-president. Al Haber and Bruce Stowe became secretary and treasurer, respectively. The Dick Libbey and Jack Scantlin team will take charge of Fleming athletics next year, while the Bud Klarfeld-Ed Matzner duo will handle entertainment. New librarian Dallas Peck rounds out the list of officers elected.

Campus Calendar

THURSDAY, MARCH 31—
3:00 Varsity Tennis vs. Arizona State at Tournament Park.
7:15 ASCIT Board of Directors Meet at Lower Fleming.

FRIDAY, APRIL 1—
1:30 Varsity Golf vs. Whittier at Whittier.

3:00 Frosh Tennis vs. Whittier at Tournament Park.

3:30 Varsity and Frosh Track vs. Pomona at Tournament Park.

4:30 Varsity and Frosh Swimming vs. Pomona at Pomona.

8:00 Frog Stag at Throop Club Lounge.

SATURDAY, APRIL 2—
1:30 Varsity Tennis vs. Whittier at Whittier.

2:15 Varsity Baseball vs. Whittier at Whittier.

2:15 Frosh Baseball vs. Whittier at Tournament Park.

SUNDAY, APRIL 3—
7:30 Caltech Musicale, Dabney Lounge.

TUESDAY, APRIL 5—
4:00 Varsity Swimming vs. UCLA at PCC.

7:30 Drama Club Meeting, 208 Dabney

WEDNESDAY, APRIL 6—
7:30 Caltech Orchestra, Culbertson.

9:00 Glee Club, Culbertson.

THURSDAY, APRIL 7—
1949 Arts and Crafts Show, Till April 9, 101 and 102 Mudd.

Debaters Take Top Places In Speech Tourney

Facing competition from over 25 Western schools, the Caltech Speech Squad returned from the Western States Speech Tournament—hoarse but happy—with one first-place cup and several second and third places.

Kenney Wins

Caltech's lone first place was won by Jim Kenney, in one-man debating and discussion events. The one-man debate question concerned a program of federal legislation to guarantee civil rights to U.S. citizens.

Western States

The tournament, held during the latter part of spring vacation, was attended by UCLA, USC, Nevada U., Oxy, Stanford, Utah State and other schools from the western states.

Second Places

Other places were garnered in debating, extemporaneous speech, impromptu, oratory, and discussion. The two Caltech teams of Bob Smith and Ulrich Merten, and Stan Groner and Bruce Keepees, were among the four teams which tied for second place in lower-division debating. Groner also took fourth place in lower division extemporaneous speaking.

Finals

Entered in final and semi-final rounds in oratory, extemp, impromptu, and one-man debating were Bernard Rudin, Leo Breiman, George Brown, Ulrich Merten and Bob Kurland.

Last Tournament

The tournament is the last of the school year for the Tech debaters. The large turnout of men for the speech squad this year was coached by Dr. John Schutz.

Palmers To Exhibit Painting Collection

If you are the type that feels he has been penned in long enough and really wants to have a little fun, contact one of the following men—Merle Kam, Al Sereno, Dick Libbey, Bill Sylves, Hugh Carter, Noel Reed, or Dan King—for further details as to cost and location or whatever may bother your mind. We hope to see all those party boys tomorrow and see exactly what they can add to make a good setting into the biggest and best party in Tech history.

Athenaeum, Houses

This exhibition will be shown in the Treasure Room of the Athenaeum from 12:00 noon until 4:00 p.m. It will then be shown again in the evening from 7:30 till 9:00 in either Blacker or Fleming.

Collection

The Palmers will show and offer for sale both original prints and reproductions of fine paintings. Included in the collection will be paintings representing both the old masters and the modern schools.

Reproductions

The reproductions are from all publishers, U.S. and foreign; the originals are from the Palmers' personal collection.

The reproductions will be offered at a special educational discount of 20% (except out-of-prints and small-prints). The originals will be sold at discounts of up to 10%.

Troubled

The problems confronting today's thespians are the necessary pains of erecting a permanent organization, capable of more than a single, annual upheaval. Much thought will be given to the choice of plays, with attention given to the existing talent, temper, and unique facilities of the Institute.

Relations

For the nonce, association with the Caltech Players is open for anyone remotely connected with and moderately interested in Tech drama.

With Gloria

Appearance in 208 Dabney will provide the happy neophyte with a glimpse of Murphy, if nothing more.

Glee Club Assembly Scheduled May 13

With another term under way, it's time to think again of entertainment. At least for some people it is. Around here at Tech, one of the outstanding events to look forward to is the assembly program to be given by the orchestra and glee club later in the term.

Rally Commissioner Bert Snider has tentatively scheduled the event for May 13, and it promises to be just as successful as the program last Christmas was. Both organizations are starting rehearsals immediately.

On intervening weekends a full schedule will be maintained with record dances, beach parties, a theater party, and an exchange with Oxy.

John Heath Takes First Place In ASCE Student Paper Contest

ASCE Meeting Set For Monday A.M.

An important business meeting of the ASCE Student Chapter will be held on Monday morning at 11 a.m., in 208 Throop.

This will be an important meeting, at which the officers for the coming year will be elected. These officers will be chosen at this time so that they will have the opportunity to work with the retiring officers for the remainder of the term and gain the experience they will need for next year's responsibilities.

Other important items to be discussed will be revision of the Chapter's constitution, the theatre, party, and the program for the third term.

Throop Clubbers To Meet Women In Social Whirl

Poop From Throop

Deep concern has arisen over the fact that too many of the personable Throopites have been caught dateless on too many occasions. The advisory committee, with their usual eager enthusiasm, has planned to alleviate this acute shortage on Saturday, April 2. Grable and Turner have turned down our offer with the old chatter of a previous engagement, but aspiring counterparts from the local institutions will turn out in great number. So as not to disappoint these queens, be sure to attend, that date again, April 2.

In the renewal of an old poll (Continued on Page 6)

Elections

Nominations for class officers will be made at assembly on Monday, April 4. The Frosh Class will meet in 206 Dabney, the Sophs in 201 Bridge, and the Juniors in 119 Kerchoff.

Election of the officers is to be Friday, April 8. The polls will open at 11 a.m.

Also to be elected Friday is the editor of the Big T. Nominations for this office will remain open until Monday noon.

Collection

Blacker's social season will swing into high this term with plans underway for a Mountain Party, a Barn Dance, a Spring Formal and the traditional Associates Tea.

Mountain Party

Extending their reputation for distinctive affairs, Blackerites will move to a retreat in Santa Anita Canyon to enjoy a camp-cooked meal under a full moon. There will be dancing under the stars and swimming for those hardy souls who can stand the rigors of a mountain stream in April.

Associates Tea

April 24 will see Blackerites mingling in informal groups with the favorite Deans and Professors, and many prominent people of Pasadena who have been guests of the house this year.

Spring Formal

A Barn Dance with Dabney and Throop is one of the first events on the calendar for May. Also in May, Blacker's Spring Formal will give the men a chance to exercise their flair for lavish decorations.

On intervening weekends a full schedule will be maintained with record dances, beach parties, a theater party, and an exchange with Oxy.

Regional Conference Gives Honor To Caltech Second Year In A Row

Paper on "Water Supply Problems in the Santa Barbara Area" Takes First Place in Close Race With Stanford

John Heath, Jr., gave Caltech good reason to be proud of its ASCE Student Chapter, as he captured top honors in the Student Paper Contest held as one of the features of the Regional Conference of the California Sections of the ASCE, held in San Diego last Friday and Saturday, March 25 and 26.

This is the second year in a row in which the Techmen have brought back this prize, winning again in close competition with the

Stanford representative, who won second honors. Last year, also, Caltech and Stanford finished in first and second place.

Competition Stiff

Heath presented a paper on "Water Supply Problems in the Santa Barbara Area," in competition with representatives from eight western colleges. The race for honors was a stiffer one this year than it was last year, and the delegation of ten men from the Student Chapter watched very proudly as John won the contest at the evening meeting of the entire Conference delegation, and was present the first prize by Dean Franklin Thomas, National President of the American Society of Civil Engineers.

A Good Night

It was a good night for the Techmen and for Dean Thomas, and a high point in an interesting convention at which the student delegates had an excellent opportunity to hear several interesting papers, to meet the senior members of the Society, and get well acquainted with the ninety student members from the nine schools represented at the Conference. Each of these schools—USC, Stanford, California, Santa Clara, Nevada, Arizona, San Jose State and San Diego State—entered one representative in the contest.

This group competed at an afternoon session, at which the two top papers—those of Heath and the Stanford man, John March—and were chosen for further competition at the evening meeting. All of the papers were well presented and well written, so Heath certainly deserves congratulations for the fine job he

(Continued on Page 6)

Interview Schedule

MARCH 30 & 31 & APRIL 1—
STANDARD OIL COMPANY OF CALIFORNIA, San Francisco, California. Mr. F. T. Flanagan and Mr. M. W. Morris, Interviewers. BS and MS candidates in Mechanical, Chemical, Electrical and Civil Engineers. No summer men.

APRIL 1—
THE TEXAS COMPANY, New York. Foreign operations in Venezuela, Colombia, South America. Mr. W. O. Chonet from L. A. office, Interviewer. Any student in ME, CHE, CE, or EE with good engineering background. BS and up. Work will be mainly with drilling and production equipment.

APRIL 1—
THE NATIONAL SUPPLY COMPANY, Pittsburgh, Pa. Mr. B. E. Warden, Educational Director, Interviewer. Mechanical Engineers who after fifty-week training period will be assigned to Sales Engineering, Manufacturing, or Engineering Practices. Other engineering students to be considered with primary interest in SALES. Married men not encouraged to apply because of travel involved.

APRIL 1—
CONTINENTAL OIL COMPANY, Los Angeles, Calif. Mr. John A. Murphy, Interviewer. Mathematical Physicists interest in Theoretical Physics as applied to Oil Field Production. MS degree preferred. Job opening in Ponca City, Oklahoma.

APRIL 4 & 5—
BETHLEHEM PACIFIC COAST STEEL CORP., San Francisco, California. Mr. Edward G. English, Executive Assistant, Interviewer. All those who have previously completed applications to be interviewed.

APRIL 5—
GENERAL ELECTRIC COMPANY, Los Angeles, Calif. GENERAL DISCUSSION at 4:30 P.M. in 206 Dabney Hall. Seniors and graduate students in various options invited to attend. Those who make an appointment for an interview MUST ATTEND this discussion or they will not be interviewed.

APRIL 6, 7, 8—
GENERAL ELECTRIC COMPANY, Los Angeles, Calif. Mr. H. C. Hill and Mr. E. H. Eystein, Interviewers. Organic, Physical and Analytical Chemists, BS and up. Physicists, BS and up, with interest in non-nuclear fields such as optics, electronics, hydronomics and mechanics.

APRIL 6 & 7—
LOS ALAMOS SCIENTIFIC LABORATORY, Los Alamos, New Mexico. Mr. E. H. Eystein, Interviewer. Organic, Physical and Analytical Chemists, BS and up. Physicists, BS and up, with interest in non-nuclear fields such as optics, electronics, hydronomics and mechanics.

APRIL 6 & 7—
BETHLEHEM PACIFIC COAST STEEL CORP., San Francisco, California. Mr. Edward G. English, Executive Assistant, Interviewer. All those who have previously completed applications to be interviewed.

APRIL 6 & 7—
GENERAL ELECTRIC COMPANY, Los Angeles, Calif. Mr. H. C. Hill and Mr. E. H. Eystein, Interviewers. BS, MS, Prof. and PhD candidates in Electrical, Mechanical, Chemical Engineering, and Applied Physicists. Physicists and Chemists will also be interviewed. Work in Hanford, Washington and in the East.

APRIL 6 & 7—
GEARARD MOTOR COMPANY, Dearborn, Michigan. Mr. David G. Marquardt, Supervisor College Recruitment, Interviewer. BS or MS candidates in Engineering and Science interested in Ford Field Training Program. Must be 20-26 years old, upper Washington and in the East.

APRIL 6 & 7—
GEARARD MOTOR COMPANY, Dearborn, Michigan. Mr. David G. Marquardt, Supervisor College Recruitment, Interviewer. BS or MS candidates in Engineering and Science interested in Ford Field Training Program. Must be 20-26 years old, upper Washington and in the East.

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Who Dealt This Mess

By Carl Fox

The National Intercollegiate Bridge Tournament results have been received. The top Caltech team is the only one for which specific results are available. Victor van Lint and Al Cohen rate honorable mention in the Western Division with five "pars" out of a possible nine.

During the third term, with the exception of this week, this column will be devoted to discussion of hands which were played in the Intercollegiate Tournament. These hands, it should be remembered, are not dealt hands. They were set up to illustrate specific points of bidding and play which the Tournament Committee considers important. Thus they particularly illustrate the principles of sound bridge.

The hands are set up in such a manner that there is a "par" for each. That is, there is a certain place in which the hand should be played and a certain result that should be achieved. In the discussions the "par" listed by the committee will be given. In addition there will be a discussion of the recommended bidding and play.

But this week we deal with an opening bid which is often useful on a certain type hand. It can be used to advantage on several of the tournament hands. How many times have you had the opening bid and held something of this nature?

S Q J 3 2
H K J 7
D A 8 4
C K Q 7

The hand is not a good One No Trump. Neither is One Spade attractive. But the hand contains a good three honor count and should not be passed. Both the above bids force partner to the two level for a reply and neither leaves a good rebid.

A convenient method of handling such a hand is to open One Club. This bid is made, not because of the Club holding, but in spite of it. Its merits are several. Partner may now reply in any suit or in No Trump and remain at the one level. Depending on his action, there are several attractive rebids.

There is only one artificiality that needs to be introduced into partnership bidding to permit the use of this bid. Partner must refrain from supporting opening One Club bids unless he holds four or more Clubs.

In case you are worried that partner will be disappointed in your Club holding, consider how pleased he will be with your high card holding. But, if he is a die-hard who views any bid of a three card suit with extreme horror, refer to it as an optical illusion. The deuce of Spades was

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Sy. 2-3871 - Pasadena 1**CAMPUS BREWINS****GENESIS**

A slight eccentricity was observed on the Tuesday of finals week in the Dabney dining room. Following the letter of the law (but hardly the spirit, we feel), about a dozen of the troops appeared in coats and ties—coats and ties, that's all, no shirts, no trousers, and some even without socks. Well, those WERE trying times. The tension was not all confined to Tech, evidently, as on that Monday night four charming bits of fluff were observed wandering about the Blacker tunnel seeking solace and inspiration from Pope Schuster. It is well known that Schuster's cut-rate price on indulgences is raising hell with the market in Pasadena. The end of finals was marked by a meeting of the widely famed PBAA in the luxurious quarters of Bill Wright, wherein Don Royce handed over the presidency to Mike Hall; Corbato was elected Secretary-Treasurer-Bottlewasher, and Hedrick made bung-starter, succeeding in the talented shoes of Uncle Ed Revay. Feeling inspired by the lush atmosphere of the room, the congregation began work on the Association's latest public service, the Official PBAA Purity Test, which shows promise of being one of the most comprehensive ever compiled; some very interesting thoughts were contributed . . .

The meeting finally ended up at Turner's, where the natives mixed in with the Club suit, making four. That will hold him!

Each week we will print the hand that is to be discussed in the succeeding column. Here is the one for next week.

S	J	10	9	3
H	9	6	2	
D	A	10	0	
C	9	8	3	
N				

S	7	5	2
H	Q	10	7
D	K	Q	3
C	A	K	Q

W	E	S	A	Q	4
D	K	H	A	8	5
C	A	K	T	7	5
			C	10	7
					4

S	K	6
H	K	3
D	9	8
C	J	6
	G	2

West dealer.

Both sides vulnerable.

At what contract, and by whom, do you think the hand should be played? How should it be bid? What is the correct line of play?

Scoring the daisy-picking expedition of the biologists, Hayward, Hedrick, Carter, and our beloved Mittenthal hied their weary selves to Baja California to investigate the wine industry, et al. Though tangling with the gendarmerie of La Jolla and most points south, they did much to further the good-neigh-

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•THE FRONT BURNER

All those who saw the masterful Italian films "Open City" and "Shoeshine," will be equally pleased by "Paisan."

"Paisan" is not a picture for those who want an evening's "escape" or the usual Hollywood formula of tinselled, sugared-up "Realistic" films. It has the strength and honesty that American productions seem to lack.

Italian War

Its theme is the same as that of the two earlier pictures produced and directed by Roberto Rossellini, the Second World War and its effect on the Italian peo-

room in Darbney to live in and work on a love-nest that he intends to share with a Schimpffs Mrs. (Mrs. Ottestad, of course, you boor) in the near future. It seems indeed so that the thesis of the hopeless position of the male set forth in "Man and Superman" is irrefutable. We will, however, go down fighting in the glorious tradition of the men before us, outgunned, outmaneuvered, but never out-fought. Thermopyle!

Another captured soldier, Marion Rinehart, who is marrying into the Schimpffs family, has been reported to have carried out one last coup de guerre: the dark word is he slept last weekend in the Browning house-mother's bed—a most unbelievable experience at best.

SCHIMPFFS

We are pleased to report a new category in the Gestapo and Inquisition Dept. of the Dripps College late-system. Three of our boys delivered Schimpffs-witches into the anxious hands of Mr. Parsons (he had waited up for them, unable to sleep for the haunting fear of you-know-what that gnawed at his mind) at 0400 Monday morning. The official story is that Royce's gasoline-eater, affectionately called "The Thing," roared off up the Laguna Canyon road full of stalwarts and giggling Incipits fol-

(Continued on Page 6)

B. K.

ple and countryside.

Five sketches relating episodes occurring during the American invasion and occupation are the means by which the misery, the squalor, and the courage of a people and a land hit hard by war are pictured. Each incident, ironically sometimes, but always straightforwardly without glamorizing or hamming, shows one phase of the Italians' relations with conqueror and liberator, German and American.

Grim Irony

Perhaps the most vivid overall impression the picture gives is that of the grim, sad irony of war.

Next comes an impression of realism. In no Hollywood film would one see a prostitute pick up a soldier. And in no Hollywood picture would the soldier be so drunk as to not recognize in the prostitute the sweet young thing he had met six months earlier in the triumphal entry into Rome.

Vignettes

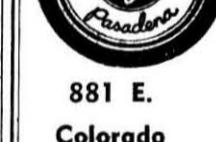
The most likely complaint about Paisan will probably come from the weekly moviegoer who doesn't like the apparent lack of plot connection between the five episodes, and the lack of technical finish. The only answer to these complaints are human misery, squalor, and behavior under the great leveler, war are the thread of connection; excellent characterization, musical background, and realism more than compensate for technical finish.

The five episodes are not meant to be one story; they're vignettes taken as the Americans progress from the opening toe-hold invasion in Sicily, to the OSS and guerrilla warfare fought a few weeks before V-E day in the marshes of the Po valley in northern Italy.

Perhaps we might get a few better pictures out of Hollywood if they had to operate on a shoe-string budget.

HOUSE JACKETS

Corduroy and Flannel

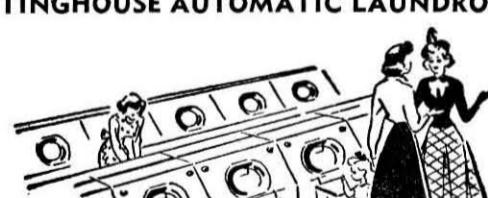
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Geologists Dare Arkoses In Trip To Copper Area

By Neal Hurley

In the gray dawn of the morning after finals, a tearful scene was ensuing within the bleak, gray walls of the geology parking lot. Men were tearfully saying goodbye to their wives, sweethearts, and pets, as hurried preparations for departure were being made. Then, at a pre-arranged signal, the gates were lowered and the geologists vacation had arrived—the Spring Field Trip was here. Dr. Richmond Jahns, adjusting his fireman's hat jauntily on his noble forehead, gave the signal to "peel off" and the 70-odd man caravan was air-borne.

Rapid

Progressing rapidly through unbelievably long series of tonalites, Mississippian brucitic limestones, arkoses, etc., the expedition finally found a town which had a large supply of squirt guns. Stocking up on the most efficient weapons of modern hy-

draulic warfare, the fifteen cars each presented the appearance of an overloaded arsenal, Dr. Jones, fearing injury to some of the local peons, led the squadron to camp on an ancient lake shore muttering coherently that "there is no beach like an old beach." After a preliminary visit to nearby mud volcanoes, the day saw a renewed outburst of aqueous skirmishes together with the development of that terrifying weapon—the water bomb. The other weapons, squirt guns, enema syringes, stirrup pumps, etc. became obsolete.

Protection

Passing Greyhound busses were used for protective screens while carrying on offensive operations on enemy portions of the convoy—all this at speeds in excess of fifty miles per hour. Defensive and offensive alliances were formed. However, Dr. Johns, shrewdly noticing the discrepancy between the mileage traveled by the lead car and the rest of the convoy, concluded that something was amiss. After a conference with the patrol leaders, an inter-squadron dictum was passed outlawing Hydraulic Warfare. Thus, another glorious epoch was brought to an ignoble end, and valuable equipment was scrapped, while fertile minds be-

gan working on more daring means of aggression.

Witnessed

Temporarily losing sight of the main objective of the trip, a stop was made at the Ajo copper mines to witness open pit mining and milling methods. Quickly growing tired of this entertainment, a rapid transit was made around the Apache Loop and the horde ground to a halt in Tempe. Finally managing to escape the clutches of the somewhat forward Arizona State gods, the chaste convoy sputtered onward. Knocking down a No Camping sign, the resourceful geologists prepared another campsite for camping. The next day, a visit was made to a pedimented pre-cambrian surface containing pegmatite deposits. To demonstrate the pernicious effects of desert cactus, Hibbard's beast, Cap, sometimes called a dog, was stuck with cactus spines. This act was decried by the anti-vivisectionists present as well as by the dog.

Bagdad Visited

Through diplomatic parleys, free billeting was secured at the Bagdad mine for the following day together with the use of the gym. After suffering a series of resounding defeats on the basketball court, the graduates pretended to become interested in geology and began mineral collecting.

Mine Owners Helped

Despite feeble protests from the management, the more vigorous mineral collectors, notably Doug Brown, Geo. Rigsby, Bill Muehlberger, Don Six, Don Baker, in fact, the whole group, managed to depart with more than one-third of the mine's high-grade ore reserves. Visiting the mill, the geologists were impressed with the low copper con-

Biologists Brave Hot Baja Sands In Desert Trek

By Ed Matzner

The sun was auspiciously bright on Friday, March 18, as seven automobiles struck out towards the Gulf of California. The head cars contained a number of the biologically inclined, under the guidance of Dr. Went, and,

tent of the ore, and to the consternation of the management, kindly proceeded to deposit their copper pennys in the samplers in a noble effort to increase the copper yield. The mine owners, not taking kindly to these actions, suggested the convoy visit their competitors.

Eagle Mountain

Thus, the following day saw the group assembled at the Eagle Mountain Iron Mine back in California. Munching on Arizona oranges smuggled into California, the group listened attentively but futilely to the remarks of Dr. Foster Hewitt, a USGS and CIT geologist familiar with the area.

Final

Nearing home, the group appeared to be less interested in classic geologic sites and more interested in getting home and could be stopped only by the road blockades Dr. Jaans had thrown across the road. After taking the 2½ hour final (since the course is only 1 unit, a 3 hour final was not deemed necessary), the happy assembled throng was dismissed with the parting admonition to not forget school the next day.

trailing in their wake, came surprisingly large numbers of less inclined laymen, who seemed to have come mainly for the exercise.

Salton Sea

After long and arduous driving, the party succeeded in reuniting again—strictly by coincidence—in the vicinity of the Salton Sea, the preestablished meeting-place of Fish Springs (ha!) having proved nonexistent. Henceforth proceeding to unbuckle various and voluminous baggage and to partake of a short sandy snack—oh how many more were to come!—the explorers went on to ascertain, during one full moonlit night, the fact that sand is much harder to sleep on than to run through one's fingers. Waking much refreshed, the company exchanged greenish glances across the desolate dunes separating their sleeping-bags, and proceeded to breakfast. Thereupon, several of the indeed quite unusual desert plants were inspected for some time, but, as a fierce sun crept higher and higher, the vigorous spirits began to ebb, and it was decided to cross the border the same day.

Border Crossed

Traversing the 80 miles to Calexico, entrance into this town was made simultaneously with what seemed to be a May Fete procession. Spiritedly dodging the various floats containing oxen and Calexico cactus queens, the border was quickly crossed, and soon the Yanquis were marveling at the slums of Mexicali and the generally prevailing colorful hullabaloo.

On to the Ocean!

Soon tiring of such urban frivolity, however, the scientists took their steering-wheels firmly into both hands and headed for the outer wastes, southward bound on a Mexican Autobahn—characterized by frequent testings of the differential housing through means of granite blocks suitably inserted in the center of the road for that purpose. Undaunted by such trifles, the expedition moved on, got lost, found themselves again, and finally set up camp about 30 miles from the border. The rattlesnakes keeping to themselves, the night was uneventful, yet one of the horn-footed giant lizards of the region, seemingly upset by the campfire singing (practice in 234 Kerckhoff) which had been in progress at the conclusion of the evening, was reported to have trodden heavily on several of the members. Nobody being the worse for this experience, part of the next day was spent in exploring some genuine sand

Chem Engineers Hear Papers On Rocket Topics

Bigger and better rockets may be built as a result of studies presented by G. W. Billman, D. M. Mason, and B. H. Sage of Caltech before the American Institute of Chemical Engineers' regional meeting at the Biltmore Hotel in Los Angeles.

Cooling Is Problem

Keeping rocket motors from burning up is one of the problems engineers have in building the hush-hush missiles of tomorrow. Jets and rockets run hot, and they must be cooled efficiently or they would melt. Billman, Mason and Sage's data will help engineers decide how much cooling surface they should provide on a rocket.

Many Years

Engineers have been working on a theory for many years to predict how much cooling they can obtain from cold gases flowing past hot surfaces. Many investigators work on these theories. They figure out equations that tell what ought to happen in an experiment—if the theory is right. Then they try it, carefully and thoroughly, excluding everything that might confuse the issue. If the results agree with the theory, then the theory is satisfactory. If they don't, the theory is no good and someone has to sit down and figure out a new one.

Report

Billman, Mason and Sage reported about the tests they made on "Temperature and Velocity Distribution in the Wake of a Heated Cylinder," the precautions they took, and the results they obtained. They did not, in this paper, try to prove or disprove the general theory, but simply reported their experiments so that other engineers could use the figures and draw their own conclusions.

dunes, complete save for bar-chans (where art thou, Dr. Sharp!) and, the heat of the atmosphere being conducive to yearning for that which is cool and wet, it was resolved to attempt to reach the ocean. The avenue leading thereto, however, turned out to consist of 140 kilometers of "desviaciones" (which term it is better not to explain) and, one vehicle having broken its rear spring, another punc-

(Continued on Page 4)

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BIOLOGISTS BRAVE

(Continued from Page 3)

tured its gas tank by then, and the third used up its drinking water supply in its cooling system—the adversities of the Mexican highway system were decided to be too much for the mettle of even such toughies as Tech biologists. The day's route was accordingly retraced, the camp made at the same spot as on the previous night, and everybody soon fell into fitful slumber, with certain parties thinking somewhat wistfully of Linnaeus, who had gotten his botany in Sweden, where there are no cacti.

Final Trek

On the morrow, the party returned to Mexicali, and after stopping shortly to sample the local brew and "tacos" and mailing letters to Gloria Murphy, struck out towards Tijuana. Most of the day was consumed in driving, halting occasionally to brood over the flora. The night was finally spent at the bottom of a dry lake. Idly attempting to reach the mirage of a palm canyon, all vehicles got simultaneously bogged in the evidence of human presence since Marco Polo, and Molens Volens, camp was pitched. In sand, in a spot which evinced no celebration, some local port, conveniently acquired at an earlier date, was at once ingested, and spirits rose high.

Home Again

The caravan, awakened by great gusts of wind next morning, pushed on for Tijuana—by way of the Cantu grade, a mountain road . . . well, suffice it to say that never have so many suffered so much over so long a time. More tacos were had at the top, Dr. Went treating the company to 26 of them—and, having thus restored the tissues—on to Pasadena went the great trek. After laboriously chugging over 90 more miles of rocks, establishing contact with the executive at a deserted village where a 4-toothed representative of the law demanded credentials, the border was crossed. Many more vicissitudes were to come: flat tires, and navigating through a dust storm, sicknesses produced postprandially by tacos, more broken springs, very 32-toothed representatives of the American law, and rainstorms in Long Beach—but finally the tattered and bearded remains of what had once been gullible biologists staggered into Pasadena. The Biology field trip was over, the showers were busy for the next hour—and once again the sands of Laguna Salada lay quietly under the stars.

GAD!

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Ski Heil!

Spring is in the air. Nevertheless, there is still plenty of snow on the ground for at least another month of good skiing. Besides the bright blue skies, there is the added attraction of bare midriffs on the slopes.

Ski Tows

Snow Valley seems to be the sanctuary for Caltech skiers. For beginners the lower rope tows are ideal, and for more advanced skiers, the bowl tow offers more skiing per hour than just about any other spot in Southern California. It is always comforting to know that if you get hurt, possibly Marj or Pat, who are on the ski patrol, will give you first aid. Also, the management is very cooperative with racers, since last weekend they not only provided free tow tickets, but also free beer for the racers.

For Caltech this is the height of the racing season. There was a race on each of the last two weekends, and there will be three races for Caltech men in the next two weeks.

Giant Slalom

The race on March 20 was the San Gorgonio Invitational Giant Slalom at Snow Valley for teams that are members of the FWSA. This race was open to all members of our club, so that the famous trio of Schurmeier, Francis and McKenney could race. These men were reinforced by Gardner and Carus to fill out the team. However, even though it was a great day for the races, the Caltech team slipped from last year's record of third place to seventh place this year.

Bruins Hot

On March 26 and 27 the Southern California Intercollegiate Ski Union Championships were held at Snow Valley. This meet made skiing history, because it was the first four-way meet held in Southern California. It is interesting to note that UCLA is the only school with a \$1000 budget in addition to a paid coach and two Norwegian exchange students on the team. However, even with relatively little racing experience, Caltech showed up well coming in third out of all the schools in Southern California, only being beaten by UCLA and USC.

The team consisted of Jim Blom, Ollie Gardner, Pete Price, Dick Jones, Dick Schuster and Blouke Carus. Although this was the first Caltech intercollegiate race for Dick Jones, he showed good form, and turned in the best times of the Caltech team for both the giant slalom and the slalom.

Next Sunday, April 3, Caltech is sponsoring a meet with UCLA, Pomona and San Ber-

nardino Valley College again at Snow Valley. This ought to be an interesting meet since the winner will probably take the Ski Union Van deGrift Trophy.

On April 9 the executive council of the Caltech Ski Club has

scheduled the second race to decide which house will keep the Lilly Trophy for the coming

year. Dabney House won the first race, beating Ricketts 100 points to 95 points, so that anything can happen this coming meet on April 9.

GAD!

A blessed event came into the Jones family, and Papa Jones went off to the hospital to visit

the new addition. He was a bit pre-occupied by the problem of how to stretch the allotment check, and so walked right into the room marked "Delivery." The nurse was horrified.

"Don't you know better than to come into this room?" she asked. "You're not sterile."

"You're telling me!"

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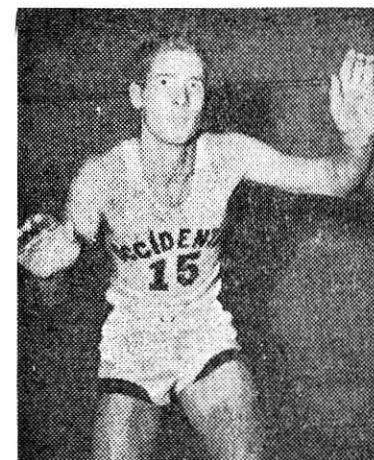
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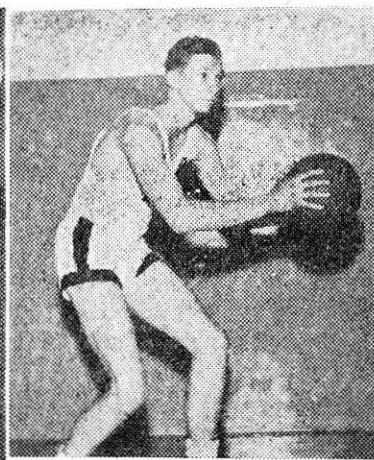
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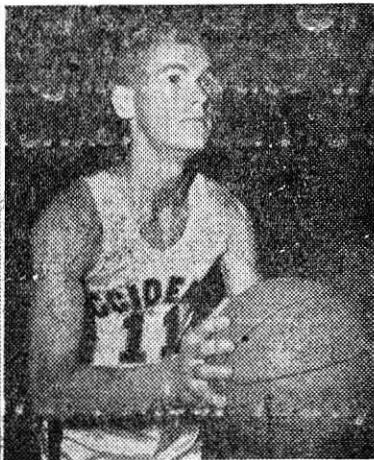
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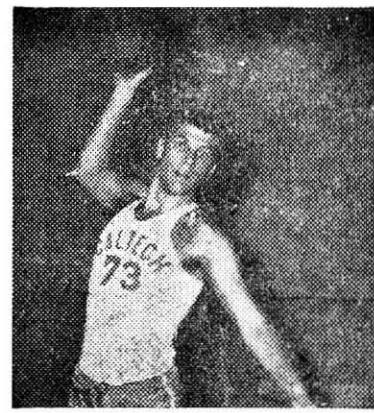
G DICK JACKSON — OXY



F BOB ROSENBERGER — REDLANDS



F GENE HAAS — OXY



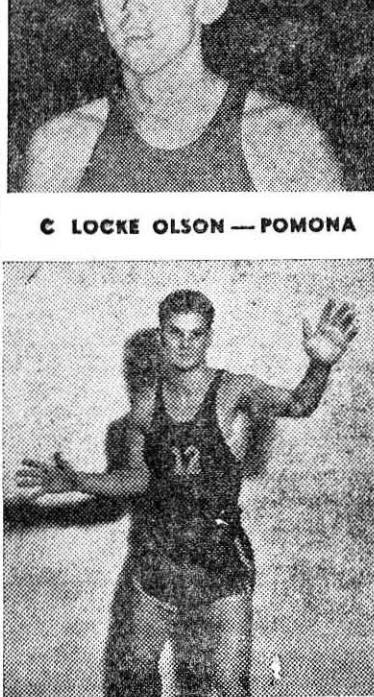
C PAUL SALTMAN — CAL TECH



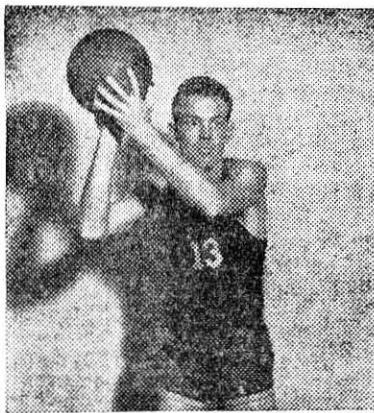
C LOCKE OLSON — POMONA



C BILL MOORE — WHITTIER



F GORDON PEDERSEN — WHITTIER



G DON WARDMAN — WHITTIER



G BILL STANLEY — REDLANDS

1949
All Southern California
Intercollegiate
Conference
Team

Frosh, Muir Colts
Ball Clubs Duel
To 3-3 Deadlock

The Muir Colts came from behind to tie the Caltech's frosh club, 3-3, in a baseball game Tuesday afternoon at Tournament Park that ended after seven innings. With but one day's practice after the two-week layoff, the Little Beavers gave up three runs in the fifth on as many errors, coupled with two timely Muir hits.

Tech Leads

Caltech jumped to an early lead in the first when Babe Karasawa reached first on an error, Bill Wise singled and took second as Karasawa slid safely into third, and Deane Smith's grounder went through the shortstop's legs, permitting two runs to score. Another tally was added in the third on Al Haber's single to right and his excellent base running. When Wise sacrificed, Haber saw nobody covering third, made it there successfully, and came in on the first baseman's wild throw to the bag.

Muir Comes Back

The fatal fifth began when Muir's Kitching led off with a single off Haber's glove, and then stole second. Pitcher Norm Gray's bad throw of Hisey's grounder to third allowed Kitching to score and Hisey to take second. After one out two more errors loaded the bases with Colts. Norris popped to Dave Koons, but Heydenfield's single to right scored two runs to tie up the game and end the scoring for the day.

Although both sides got a fair share of hits, the two pitchers showed good control. Gray walked none and struck out five, while one Tech frosh drew a stroll to first and 12 went down on strikes, but this figures reflects more on the layoff of Beaverbabe slingers than the quality of Muir's Riordan.

SCORE BY INNINGS	
Muir Colts	000 030 0—3
CIT Frosh	201 000 0—3
Sacrifice hits:	Norris, Wise. Stolen bases: Kitching (2). Left on bases: Muir, 5; CIT, 4. Bases on balls: off Riordan, 1. Struck out: by Riordan, 12; Gray, 5. Umpire: Mallory.

GAD!

Never trust a girl who says she loves you more than anyone else in the world. It proves that she's been experimenting.

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Talkin' It Over
With The Goon

Dropped out to see Easy Ed's big nine work out the other day. It was pretty hard to get a close look at them, though, because there were so many big league scouts picking over the team that there was no room to muscle in.

Hustlin' Hal, cigar and all, was talking to one of the scouts as I walked up, and it was lucky there was an interruption, the scout was just about asphyxiated. It seems as if the word got around the local spring training camps that a certain collegiate club was piling up a good record. Some team calling themselves the Beavers had won six, lost two against some fairly good bush leaguers. And this wasn't just any old kind of baseball club—these boys could read.

By Monday newspaper reporters, photographers, managers, and sports fans from all over the country were swarming into Pasadena. The Athletic office was besieged with calls; M.G.M. wanted to make a picture starring Hustlin' Hal and Miriam; kids were ripping buttons off of the Chucker's uniform. In short, the place was a bedlam. Trying to capitalize on the situation Dr. Du Bridge and Mr. Hal were issuing hourly statements on the financial picture of the Institute, pleading for more money to carry on basic research in the science of spheroids. Dean Strong was trying to promote a few more athletic scholarships to be given out by the various ball clubs to promising young students with high batting averages. While last, but not least, Sue Huck was informing millions of American mothers that their sons could grow up big and strong if they were fed broccoli three times a day.

Lou Stallkamp stole most of the limelight with his fine all-round brand of ball. Holding forth at second, Lou has been making spectacular fielding plays, and teaming with the Chucker to form as good a key-stone combination as will be found in any college team in the country. With two more years of eligibility left, Lou, Walt Pfeiffer, and Duane Neverman should form the nucleus of a

**Whittier Net
Tilt Saturday**

The Beaver racquetiers resume conference competition this weekend as they travel to Whittier to face the Poet netters in what promises to be a closely contested match. After showing fine early season form, the outlook is bright for Caltech's varsity tennis team under the able tutorage of Coach Johnny Lamb. Impressive victories were scored last term in practice matches against Loyola, Muir, and PCC; while very creditable performances were chalked up against Pepperdine and UCLA. In the only conference match they have played thus far the Engineer netmen defeated Redlands on the Bulldogs home court by a score of 5-4.

Well Rounded

This year's team appears to be a well rounded group characterized by the consistency of all the players as a whole rather than the supremacy of any few men in particular. The Varsity squad is composed of Sid Stone, who recently returned to school after an absence of several years; Ed Alexander, team captain and last year's Scott trophy winner; returning lettermen Larry Nobles and Jack Poindexter; and from the last year's Frosh team Jack Martin, Dean Blanchard, Thorne Butler, and Don Schmid. Berk Welch is handling the managerial responsibilities.

Face Pomona

The first home conference match of the season on the Tournament Park Courts is scheduled for Saturday afternoon, April 16, against Pomona, the defending conference champs who are favored to retain their league title.

few fine teams. As usual, Patterson's big bat is booming the ball over the fence. Coupled with Pat's stellar fielding, it should earn him a cinch berth on the conference nine.

The overall picture looks mighty good. Whittier, reported to have one of the strongest teams in the SCIC was trounced by PCC who in turn were lucky to cop a win off the Techsters. The only other power in the league is on the mound for the

(Continued on Page 6)

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ARROW UNIVERSITY STYLES

**Beaver Ball Club
In Opener Tomorrow****Engineers Face Whittier On Even
Terms: Good Pre-Season Showing.**

The Beaver baseball prospects for the coming season are looking better with Coach Ed Preisler's men taking five out of seven games in pre-season practice. The batting has come up from a low of .196 to a .257, and the infield workouts have tightened up the fielding. With most of last year's lettermen returning, two returning after a year's lay-off, and several good boys up from the Frosh, the Engineers should do quite well in league play this spring.

Ed?

**Track Meet Today
Pomona Favored
In Run Events**

Two new school track records were set by Caltech men in the conference relay meet held at the end of last term. Martin Walt and Hal Tyson each erased their own previously held marks in the pole vault and shot put.

Walt added another inch to his height to set the school record at 14 ft. 4 1/4 in., while Tyson increased the shot mark to 48 ft., 7 in., in bettering the old distance of 48 ft. he set last year.

Beavers Place Second

In addition to these stellar performances the Beavers took another first with Tyson's winning discus throw, followed up with Dwight Schroeder's second in the broad jump, and added a number of seconds and thirds in the relay events to surprise the dopsters and take second place in the meet by a comfortable margin. Oxy was first with 36 5/6 points, CIT second with 29, Pomona third with 21 1/2, Red-

(Continued on Page 6)

Despite charges of professionalism, our heaviest hitter is still Ed himself, with two homers and a two-bagger for four times at bat in the La Verne game. Merle Kam leads the regular team with an average of .429, and Norman has pulled himself out of his initial slump with six hits for his last six times at bat, to average .364 to date.

No serious injuries have occurred to date, although Walt Pfeiffer and Jack White have been laid up by accidents over the holidays. For a short time third baseman Morrison is out because of a skiing tumble and Bam Spaulding's arm may keep him out of the game for a few weeks yet.

Pitchers

A lack of pitchers is still the club's weak point, although Bruce Hedrick's control has been steadily improving, and several good relief pitchers have been used in the last games. Hedricks will be starting hurler in the first league game Saturday, and promises to do well.

Whittier

And while we're on the subject, let's get out to the games and get behind the team. Remember, they can't win by themselves. It takes a lot of help from the stands. The first league game again; Saturday at Whittier.

**Beaver Mermen
Highly Favored
Over Sagehens**

Today will be the first time that Jim Marcus, Tech's new swimming coach, will be able to see what his team can do under pressure. A close meet with Compton before all the team was in condition and recent time trials indicate that most of the team members will better last year's times before this season is over.

Beavers Favored

From all reports and rumors, this afternoon's meet with Pomona should be a walkaway for the Beavers, but, as usual, it can't be relied upon. With most of last year's Frosh squad out for varsity and only one loss from last year's second-place conference team, Coach Marcus will have plenty of material to choose from. He will have to decide how to use sprinters Bill Harris, Al Eschner, Bob Waters and Frank Darling. In the distances the decision will be between Dick Libbey, Joe Curray and Brad Houser. There are three each of backstrokers and breaststrokers. They are Mike Hall, Jay (Continued on Page 6)

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Next to Pasadena Playhouse

CAMPUS BREWINS

(Continued from Page 2)
lowing a late stay at Emerald Bay and promptly pumped all its oil out onto the highway. Markoff, weary but faithful, was summoned with the Taxi from Tech and all rendezvoused with Parsons at the mentioned hour. The Schmipps-line has also been tapped to reveal that some friction has developed between Bill Woods and his much-beloved Schmipps-shrew. Shepard is reported to have been trying to patch things up. Hasn't he learned by now?

Some very edifying statistics about alumnae were published in the Schmippscript not long ago, which on analysis yield some startling conclusions. First it is noted that 20% of the 1500 alumnae of the white walls are unmarried and of these occupations were listed for only 28. Surely my astute readers can deduce that 272 graduated Schmipps-women are without any visible means of support. We also find

TRACK MEET TODAY

(Continued from Page 5)

lands 16½, and Whittier 16.

The frosh team also showed

up well, taking second behind a

very powerful Oxy squad.

This afternoon at 3:30 the varsity and Frosh teams meet Pomona in what promises to be a close dual meet, with Tech strength in the field events and the Sagehens given the nod in the races. The meet could go either way, but on the basis of previous competition, coupled with the Beaver's week of vacation, we must call it for Pomona.

BEAVER MERMEN

(Continued from Page 5)

Montgomery and Dick Fairall in the backstroke and Noel Reed, Stan Boicourt and Bill Palmer in the breast. The diving, too, shows promise, with Ed Reincke, Ken Hammond and "Mert" Merten spinning madly thru the air every night at PCC.

This year's Frosh team is the strongest that Tech has seen in a long time. They should be able to give a good account of themselves against all opponents.

THROOP CLUBBERS

(Continued from Page 1)

icy, the off-campus men are urged to attend a dinner meeting to be held in the Athenaeum on Wednesday, April 6th, at 6:30 p.m. Along with a general business and an organizational discussion, the meeting will afford an opportunity for Throop members to express their viewpoints on matters concerning prospective activities. Speaking, as such, will be very brief, and will be followed by color movies through the courtesy of the Canadian Consulate. To insure provision is made for your attendance be sure your name is on the list posted in Throop Club lounge. Beyond the control of the advisory committee, entertainment from a South Main Street establishment has been curtailed and eliminated. Don't let this keep you away!

Classified Ads

NEW PHILCO Model 802-1 car radio 8-tube Electric push button tuning. Fits all Chrysler products cars to 1949. This is the standard factory installation radio which retails now for \$117.50. My price \$60 cash. A. Cuse, SY. 3-9822.

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that, of the 80% who marry, only 43% of these have children and never more than two. Thus, it is easily seen that it takes two Schmipps women to produce one child. We are further enlightened to note that of the children produced, two out of every three are boys. Genetics classes please note.

REVELATION

Ricketts House also reports that school has started for the Rowdies, too. Dick Spence was back at his post in the phone booth, so everything is proceeding as usual. Bradley, Malone, Myers and King spent the week at Laguna, sharing the ill-fated Laguna Heights Hotel with Barnes and assorted Flemings. The Ricketts boys were noted to have had a few differences as to the relative merits of various investments. King was in favor of wining women, Bradley wanted to wine himself, Malone didn't care, and Myers wanted to buy suntan oil. Boor of the expedition was Bradley. He asked a certain Schmipps lass if she wanted a beer. She did, and received a lecture on the evils, folly, and effects of drinking. Bill, who turned teetotaler for the day, then asked her if she cared for another. Her "no" was followed by a curt "Good, let's go." Smooooth!

Harry Begg drove to San Francisco with Nancy, his better-half-to-be, and made the mistake of noting that it took 20 hours to return. Al Sereno, Merle Kam and Dan King promise all the party-goers that the big kanaka kick tomorrow, called a Luau, will be ideal for all stags, drags

and bags who yearn to see their exploits in print herein.

It is wisely observed that friction arises when two wheels rub together. Barnes has recently been the sad observer of the phenomenon. Ah, Dot was really a fine woman, and that from Barnes carried weight, but, alas, the inevitable friction . . .

A foul blow was delivered to Dallas Peck when Fleming pixies put a jobbed grade list in his envelope. Sorely chagrined, D. P. went off to drown his despair in debauchery and promptly got a date with Fleming's communal Sue L. The blow must have been a powerful stimulant, for they spent the entire day out driving her car and making much time. Opposite results from Ron Quandt, who, after lengthy attempts to be introduced to Gloria Murphy, was finally stood up by the lovely heroine; Ron now trails a glum face. Price tells us Gloria thinks sin is nasty (her word); saddened, we have dropped her from competition. Even Cuse will probably give up his dubious ambitions along this line. Said the walrus to the pussycat, "We weep a bitter tear."

PIANISTS!

The Caltech Glee Club is in dire need of an accompanist. Anyone who can play the piano, has Wednesday night free, and would like to help out the Glee Club should drop into the Glee Club meeting at 9:00 in Culbertson any Wednesday night.

JOHN HEATH TAKES FIRST

(Continued from Page 1)
did in carrying the ball so effectively on both occasions.

Tradition Set

A fine winning tradition has thus been established these last two years, which we hope can be continued next year, when the Western Regional Conference of the ASCE will be held in Los Angeles, and the Tech Student Chapter will act as host for all of the Student Chapters at that

meeting.

This will be a large and important meeting, and will carry with it a distinct honor as well as a heavy responsibility for the officers of the Chapter. The honor won at San Diego was a fitting high point in the program of activity carried on this year.

TALKIN' IT OVER

(Continued from Page 5)
Bulldogs in the person of H. Waters—the kid who sunk that "never in doubt" shot in the second Redlands basketball game. Easy Ed is not talking much these days, but if a smile is any indication, look for a winning diamond squad.

New Laundromat Opens Near Tech

Students who must face the choice of either doing their own laundry or sending it out to be done will be interested in the new Laundromat opening this week.

Located close to Caltech, only one block east of P.C.C. on Colorado, this new self-service laundry will be open till 8:30 on weekdays, 4:00 on Saturdays, and till 2:00 on Sundays.

FSR

(Continued from Page 5)

The Freshmen netters meet Whittier in Tournament Park at 3 p.m. Friday, while at 3:30 both Varsity and Frosh track squads play host to Pomona here. At 4:30 we journey to Pomona to give the orange belt boys a lesson in swimming. Saturday climax Baby Beaver's week of sports when the Frosh nine open their league competition by playing host to Whittier at Tournament Park.



"Mildness counts with me,
and Chesterfields are
MILDER—MUCH MILDER."

Jane Wyman

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