

California Institute of Technology

Thursday, May 12, 1949

BUY YOUR
ALUMNI DANCE
BIDS NOW

No. 27

Volume L.

Big Alumni Hop Slated For May 21. Bids Now On Sale

Proceeds to Help Swell New Gym Construction Fund; Eddie Miller's Band to Play for Students, Alumni

What appears to be one of the most promising dances in ASCIT history is scheduled for Saturday, May 21, at 8:30 p.m. at the Altadena Town and Country Club. The dance will be a leisurely affair, with sport clothes as the prescribed dress. This is in keeping with the ease of operation with which the Alumni Association functions and the friendly encouragement it gives to students.

The purpose of the dance is to publicize the fund for the gymnasium to be erected in Tournament Park, as well as to introduce the students to the alumni and show them the Alumni Association's activities with regard to the Institute.

Miller's Band

The entire ground floor of the Country Club has been reserved and Eddie Miller's band has been engaged to provide smooth, popular music. In addition to the fine saxophone playing of Eddie Miller, Matty Matlock will play the clarinet, Bud Hatch will be on the bass, and Nate Kazebier on the trumpet. These and the other members of the band are almost all veterans of Benny Goodman's old band and have also played with other renowned bands.

Proceeds to Gym

Bids may be purchased at the Institute bookstore, at the Alumni office, or at the four student houses and Throop Club. They are \$1.80 per couple and all proceeds gained from their sale will be applied to the gym fund.

ASCE To Examine Los Angeles Harbor

Next Monday, the Student Chapter plans a visit to Los Angeles Harbor, which will include a boat trip to the outstanding projects. An extremely interesting program is expected, and it is hoped that everyone who can possibly make it will attend. The tour starts at 1:00 p.m., so it will be necessary to take box lunches and leave the campus at 11 a.m.

Guest Speaker

Last Monday's meeting of the ASCE Student Chapter on the campus featured as guest speaker Mr. Don C. McMillan, City Manager of Pasadena, whose subject was "Engineers in City Government." Mr. McMillan spoke of Pasadena's training program for City Managers and of the good opportunities available in that field for men with engineering training.

Housing Project

During the afternoon, the CE's visited the consulting engineering firm of Bowen, Rule, and Bowen, where they viewed a unique method of stress analysis employing models, which method has been used by this firm in the analysis of the Park La Brea Housing Project Buildings. Since these buildings are constructed in a novel cruciform plan, the stress analysis would become unduly complex by the usual mathematical methods. After seeing these measuring devices, the group journeyed to the actual projects to see the buildings in the process of construction.

Campus Calendar

THURSDAY, MAY 12—
12:00 Upperclass Lunch Club
12:15 Throop Club Meeting
3:00 Swimming, Varsity and Frosh.
CONFERENCE PRELIMINARIES at Oxy
7:15 A.S.C.I.T. Board of Directors
Meeting in Lower Fleming
7:45 Dancing Class in Culbertson
Dabney Stag

FRIDAY, MAY 13—
11:00 Assembly - Palomar Film in Culbertson
1:30 Girls Varsity vs. Pomona at Pomona
Ricketts Theater Party
Blacker Decoration Stag

SATURDAY, MAY 14—
1:30 Tennis, Varsity vs. Pepperdine at Pepperdine
2:00 Swimming Varsity and Frosh CONFERENCE FINALS at Oxy
2:15 Baseball, Varsity vs. Pomona at Pomona; Frosh vs. Pomona at Tournament Park.
Blacker Spring Formal
Throop Beach Party
Fleming Record Dance

SUNDAY, MAY 15—
Ricketts Beach Party
Fleming Beach Party
Dabney Beach Party

MONDAY, MAY 16—
11:00 C.E.S. Lecture, "Applications of Digital Computers" in 201 Bridge

TUESDAY, MAY 17—
12:00 Fresh Lunch Club
4:15 Baseball, Varsity vs. Cal Poly at Tournament Park

WEDNESDAY, MAY 18—
7:30 Newman Club in 208 Dabney

7:30 Orchestra Rehearsal in Culbertson

9:00 Glee Club in Culbertson



EDDIE MILLER

Need Help?

Anyone who is interested in obtaining the service of the Instituters for some student body activity please contact either Norm Fink or Ted Polk in Ricketts.

Students To Make Caribbean Cruise

Want to have fun traveling south of the border this summer? Want to bask in tropical sunshine and swim in the Caribbean?

Fifty students from universities in California, and a few from Latin American universities have a chance to go one a six-weeks' Caribbean cruise sponsored by the National Students Association.

Scenic Spots

The cruise will be taken this summer, from June 20th to the end of August, to such scenic spots as Acapulco, Mexico; Caracas, Venezuela; Trinidad, Martinique, Jamaica and Havana, Cuba.

The schooner Vega, which will carry the Latin-American bound tourists, is supposed to be one of the most beautiful boats in the country. It was built by the Krupp Iron Works in Germany at a cost of more than \$1,500,000 in 1930 and was designed as a racing yacht.

Record

The Vega has raced across the Atlantic and made record runs from Honolulu to Panama. For those who might be worried about leaks, and other assorted dangers, the yacht was given a rating of 100 A-1 (everything on board in finest shape) by Lloyd's Register of Yachts, and will be captained by a man with more than 40 years of sailing experience.

Information

The cost of the tour will be \$500, including meals, transportation from dock to ports of call, etc. For further information, call Alice Leonard, National Student Association, TU 1311, Ext. 517, or WH 0258; or June Rodgers, AR 9-1658; or Kristy Koestner, National Student Association Chairman, Room 222, Kerckhoff Hall, UCLA.

The deadline for applications is May 15.

Glee Club Tells Concert Plans

The orchestra-glee club assembly, originally scheduled for May 13, has been changed to Friday, May 20. The reason for the move, outside of the obvious concurrence of Friday and the date 13th, is that there were conflicts with rehearsals. It follows that, due to an extra rehearsal, the groups should be that much nearer perfection in their performance.

Shuffle

During the past term and a half the glee club has been busily engaged in a large reorganization program. Included among the details of the shake-up is a system of having a representative in each house to recruit more members. The present membership stands at about 20, but it is hoped that this year's activity, along with the coming concert, will inspire enough interest to greatly increase the membership next fall. Therefore it is very desirable that glee club members do a good job of agitating. The demand for tenors is especially acute. If anyone hears the vibrations of a high G sounding at 2:30 in the morning, it is desired that he contact the nearest glee club member so that steps may be taken to insure that the possessor of this range may not lose it.

Increased Participation

The orchestra has had a very successful year. This statement is emphasized when compared with last year, at which time attendance at rehearsal was usually a negligible quantity. On the average there have been well over twenty at rehearsals, and it is hoped that almost 30 will participate in the assembly. Again there is room for improvement which only continued publicity and successful concerts can accomplish.

Driving Force

The real reason for the new look of the orchestra as well as the renewed interest in the glee club is the director of both organizations, Mr. Lauris Jones. It is the first time in many years

(Continued on Page 6)

Dr. Robert F. Bacher To Be Head Of Physics Division

Dr. Robert F. Bacher, 43-year-old physicist, is to become Professor of Physics and Chairman of the Division of Physics, Mathematics and Astronomy, of Caltech, it was announced by Lee A.



DR. ROBERT F. BACHER

DuBridge, President.

For the past two and a half years Dr. Bacher has been the sole scientist member of the five-man Atomic Energy Commission headed by David E. Lilienthal. He was appointed to the Commission in 1946 while he was professor of physics at Cornell University. His resignation from the Atomic Energy Commission is to take effect on May 10th, according to a White House announcement, and he is expected to take up his duties during the summer.

Chairman

In his position at Caltech Dr. Bacher will supervise the activities of the division of Physics which includes all of the educational and research work at the

ASCIT To Decide On Proposed Increase In Dues Tomorrow

Dr. Roger F. Stanton Chosen Library Director

Announcement has been made of the appointment of Dr. Roger F. Stanton as Director of Libraries at the Institute to become effective on July 1. Dr. Stanton will have as his Associate Director Dr. Oliver C. Dunn who is now attending the School of Librarianship at the University of California, Berkeley.

Acting Librarian

Dr. Stanton, for two years Acting Librarian at Caltech, best known to students as an English professor, received his bachelor's degree at Colgate University, his master's and doctorate at Princeton, and since 1925 has been associated with Caltech. He will continue his work here as Associate Professor of English in addition to his activity as Director of Libraries.

Stanford, Cornell

Dr. Dunn received his bachelor's and master's degrees at Stanford and his doctorate at Cornell University. He will return to Pasadena from Berkeley during June and take up his duties at Caltech.

Pre Registration

Pre-Registration for the fall term will be held in Room 119A Throop for only seven days beginning May 19 to May 27. All students who expect to return to CIT next fall must pre-register during these dates. Students who do not expect to attend next fall are requested to notify the registration clerks in room 119A Throop.

Possible Amendment To By-Laws Necessitates Special Balloting

Increased Costs Cited As Reason for Move; Polls Open In Houses, Throop, Dabney

A special ASCIT election will be held to decide upon an amendment to the by-laws of the corporation tomorrow, Friday.

The amendment was proposed for the purpose of raising student body dues from the present yearly \$15 to \$17.50.

"This raise was found necessary by the Board in light of the increasing difficulty in carrying out the customary functions and services of student government with income on the old dues scale," stated Ralph Lovberg, ASCIT President.

Benefits

"Student dues at Tech are at present the lowest in the conference, and yet the widest range of benefits for corporation members is being derived from them," according to Lovberg.

Big T Costs

"Because of recent increases in costs of publication, coupled with a decrease in advertising revenue, the 'Big T' staff has been faced with the prospect of shrinking next year's book considerably, and reducing the quality of materials used."

Athletics

"Since last year, the list of men participating in varsity athletics has grown due to the inclusion of new sports such as Soccer, and it is felt desirable to reward as many of these men with letters as deserve them."

Forensics

"Forensics at Tech is steadily

WHERE TO VOTE

- Dabney Humanities 11-4:15
- West Bridge 11:00-1:00
- Lower Throop 12-4:15
- House Courts and Throop Club 12:30-1:00
- Ricketts Fleming Court 1:00-4:15

growing, making inevitable an expansion of that item on the annual budget.

"With these facts in mind, corporation members are urged to make their feelings known to tomorrow's election, so the board may take whatever steps will be necessary to balance next year's activities with whatever the overall income may be," Lovberg concluded.

The proposed amendment reads as follows:

Article XII

Sec 1. Dues The corporation dues shall be seventeen dollars and fifty cents (17.50) per year, payable six (6) dollars upon registration first term, and five dollars and seventy-five cents (5.75) upon registration second and third terms.

Information may be obtained by writing directly to Dean L. D. Upson, School of Public Affairs and Social Work, 451 West Kirby, Detroit 2, Michigan; or by calling Miss Kratka, Pasadena Tuberculosis Association, SY 3-4148.

Digital Computers To Be IRE Feature

Applications of Digital Computers will be the subject of a talk to be given Monday, May 16, at 11:00 in room 201 Bridge. Caltech's own Professor Stanley P. Frankel will give the talk. Professor Frankel will not assume any knowledge of digital computers by his audience, so all that are interested in the subject are invited to attend. This is a regular CES lecture and is sponsored by the IRE Student branch at Tech.

Field Trip

The IRE is also sponsoring a field trip tomorrow, Friday afternoon, to examine a digital computer installation at the Telecomputing Corporation at the Lockheed Air Terminal. Those interested should meet at the entrance to Tournament Park at 12:45. Transportation will be arranged at that time. Everyone who is interested is invited to attend.

(Continued on Page 6)

Palomar Mountain Trip Set By AIEE

A field trip to the Palomar Mountain Observatory has been arranged for Saturday, May 14, by the local student chapter of the AIEE.

Sign-up lists will be posted in lower Throop. Members and non-members as well are invited on the trip. The group will meet in Tournament Park at 0800 and will depart shortly after, with transportation being provided by the students having cars, on a share the cost basis. The group should be back by 1800. Those going on the trip are urged to bring lunches.

(Continued on Page 6)

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THURSDAY, MAY 12

THE HERBRIDES (FINGAL'S CAVE)—Overture, by Mendelssohn. National Symphony Orchestra of England conducted by Dr. Heinz Unger (9).

SYMPHONY NO. 2 IN C MINOR, by Mahler. Corinne Bowden, Soprano; Ann Gallogly, Contralto. The Twin City Chorus and Minneapolis Symphony Orchestra conducted by Eugene Ormandy (79).

PIERRE FOURNIER, Violoncellist.

Arthur Schnabel, Pianist.

SONATA IN A MAJOR FOR VIOLONCELLO AND PIANO, by Beethoven (24).

FRIDAY, MAY 13

Weekly Feature Concert—A Night at the Ballet

THE NUTCRACKER—BALLET SUITES I AND 2, by Tchaikovsky. The Philadelphia Orchestra conducted by Eugene Ormandy. The Boston "Pops" Orchestra conducted by Arthur Fiedler (39).

THE SEASONS, by Glazounov. Dallas Symphony Orchestra conducted by Antal Dorati (29).

CARNAVAL, by Schumann. London Philharmonic Orchestra conducted by Eugene Goossens (23).

MIRACLE IN THE GORBALS, by Bliss. Royal Opera House Orchestra by Covent Garden conducted by Constant Lambert (93).

SATURDAY, MAY 14

THE BARTERED BRIDE, by Smetana. Prague National Opera Company. Orchestra conducted by Otakar Ostrcil.

MONDAY, MAY 16

BEAUTIFUL GALATEA—OVERTURE, by Suppe. Boston "Pops" Orchestra conducted by Arthur Fiedler (6).

SYMPHONY NO. 4 IN E MINOR, by Brahms. Lucerne Festival Orchestra conducted by Paul Kletzki (40).

EDWIN FISCHER, Pianist.

CONCERTO NO. 1 IN D MINOR FOR PIANO AND ORCHESTRA, by Bach. Edwin Fischer Chamber Orchestra (24).

RONDO IN D MAJOR (K. 382), by Mozart (8).

FROM THE MIDDLE AGES—SUITE, by Glazounov. Indianapolis Symphony Orchestra conducted by Fabien Sevitzky (25).

TOCCATA, by Frescobaldi-Kindler. National Symphony Orchestra conducted by Hans Kindler (8).

TUESDAY, MAY 17

PARIS OVERTURE, by Mozart. Sinfonietta conducted by Alfred Wallenstein (7).

SYMPHONY IN D MAJOR, by Cherubini. Chamber Orchestra of Royal Conservatory, Naples, conducted by Adriano Lualdi (28).

YEHUDI MENUHIN, Violinist.

SONATA NO. 9 IN A MAJOR FOR VIOIN AND PIANO (Kreutzer), by Beethoven. Hephzibah Menuhin, Pianist (35).

PERPETUAL MOTION, by Novacek. Paris Symphony Orchestra conducted by Georges Enesco (4).

METAMORPHOSIS, by Richard Strauss. Vienna Philharmonic Orchestra conducted by Herbert von Karajan (28).

DANCE OF THE HOURS FROM LA GIOCONDA, by Ponchielli. National Symphony of England conducted by Anatole Fistoulari (9).

WEDNESDAY, MAY 18

GOVANNA D'ARCO — OVERTURE, by Verdi. La Scala Orchestra conducted by Carlo Sabajno (8).

SYMPHONY IN C MAJOR (Great C Major), by Schubert. NBC Symphony Orchestra conducted by Arturo Toscanini (44).

PIA TASSINARI, Soprano (34).

DONNA LIETA USCÌ FROM LA BOHÈME, by Puccini.

SON POCHI FIORI FROM L'AMICO FRITZ, by Mascagni.

M'HA CARITTO CHE M'AMA FROM WERTHER, by Massenet.

DEH VIENI NON TARDAR FROM MARRIAGE OF FIGARO, by Mozart.

ELSA'S DREAM AND SONG TO THE BREEZES FROM LOHENGRIN, by Wagner.

CHERRY DUET FROM L'AMICO FRITZ, by Mascagni. Ferruccio Tagliavini, Tenor.

LE BEAU DANUBE—BALLET MUSIC, by Johann Strauss. London Philharmonic Orchestra conducted by Antal Dorati (25).

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CAMPUS BREWINS

Dear Mrs. R.:

Last weekend saw the Houses cleft by a schism unequalled in recorded history. The troops from the North collaborated to form a knot of suave, sophisticated men of the world at the Ricketts-Fleming Formal, while the enlisted men of the South (sho nuff) joined with Throop to disport themselves at that purveyor of the simpler pleasures, the Dabney-Throop-Blacker Barn and Beer Binge. It was interesting to see the departing couples from the South pass those just arriving for the North's affair, with the girls in levis looking wistfully at their more flossily decked counterparts in formals, and the men constrained to their insufficient-degrees-of-freedom tuxes enviously eyeing the blatant comfort of the barn dance bound males. Perhaps an occasion where the men would call up their gals and tell them to come formal, and then appear to pick them up attired in levis and teeshirts would settle this problem to the satisfaction of all (except John Heath, of course.)

A young lady from Schimpff's doubtless suspected this sort of betrayal when Win Soule showed up for her in this type of deshabille after the track meet. He transported her the weary 26 miles, however, and changed into more conventional dress, but while dressing he stood too close to the shaving lotion bottle, and had a little trouble navigating from his room to the festive board. Said lotion somehow worked its effect on her, too, to the enhancement of the gaiety of the affair. Mr. Tanham (the History Dept's expert on obscure battles, and proprietor of an extremely handsome wife) remarked, when asked if he knew Soule, "Oh, yeah, the one with Margie."

They even had half-time entertainment, in the form of an ex-Lemming named Knudsen, who demonstrated some rather neat maneuvers. Showstopper was the one where he tied two handkerchiefs together, dropped them down the decollete gown that Pat Doherty's date was wearing, and then withdrew from the same region a blatantly feminine bit of wearing apparel. Brought down the house, and there were men surreptitiously approaching him all the rest of the evening, trying to persuade him to part with the secret to this operation. He also managed to synthesize, from a group of eggs (left over Easter eggs, sans doute) and Verne Edwards' hat, a mess of baby chicks, and a rabbit. This rabbit was coveted by O. Gardner's woman—she said that it had such nice pink ears—just like Ollie. Also lustng after this bit of fluff (the rabbit, of course, was Bruce Stowe's latest project, one Dorothy. Forsaking a bi-

SHURTTIES (my, what an apt term) Dan King, and Stan Boicourt were happily enjoying the evening, Boicourt with his own date, but Crud's own erstwhile operator, Willis, was nowhere to be seen. Finally someone glanced up at his window, and there, his little (?) nose pressed wistfully against the window pane, was he, dateless, and his slide rule clutched in his hot hand, the epitome of nakedness. Repent, repent, repent, lest all be lost. Toward the end of the evening, when the urge to economize on the lights in Ricketts lounge got particularly strong, some vandal persuaded Richie Smith's Sophie to turn them all on. Sereno was so utterly shocked at the tableau thus unfolded to his young and innocent eyes that he has proclaimed, "Either those men move out of the house, or I do. The present moral tone is too abysmally low to endure." It was nice living with you Al.

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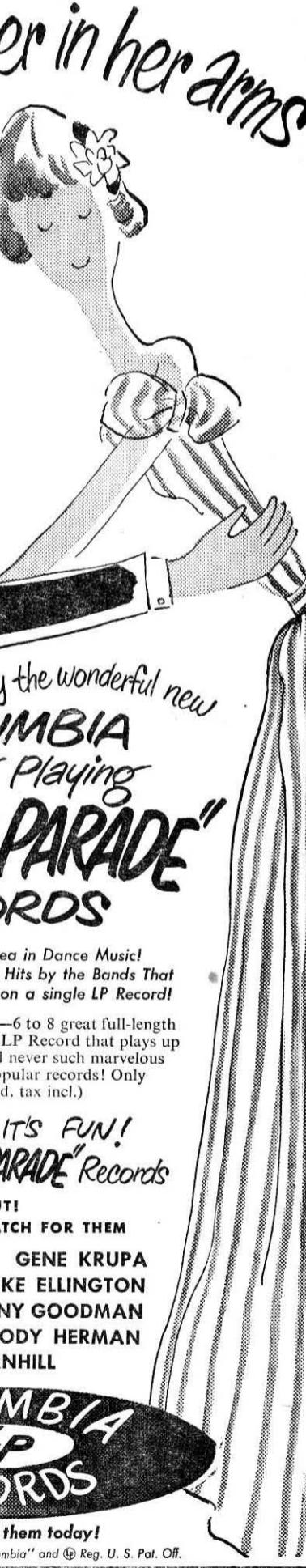
Open Evenings

Dallas Peck, usually seen with Sue, was seen with Sue again, she clinging languorously to his neck and chewing passionately. A very religious woman, we are told, Sue has been trying to get Dallas to go to church with her. We only hope he gets her in on time Sunday mornings so that she is in time to make church at all! Much interested in the fascinating social progress of brother Waheed, we note that he has at last taken the last, irrevocable step on the road to sin and learned to smoke. He apparently is not completely converted to the noble pleasures of dancing, since he disappeared from the dance rather early in the evening. There was some hint of a later mix-up with Cagle and date, when the latter refused to relinquish Waheed's bottle, but all, we hope, was cleared up satisfactorily.

In answer to the Faculty-edited Schimpff's front page story, "Are Professors Human?" (a fearless, dashing, daring commentary on what is wrong with professors' salaries, working conditions, and honors), we advance evidence that they do have some human traits—namely, progeny. For instance, the formal was graced by the presence of one Elaina Benoff (by the way, she has a sister, Dagmar, whose looks pleasantly belie the rather odd name) in Inman's capable hands. Further faculty contribution was made by our own Litmus Pauling, whose daughter did much to decorate the area—and Perpall's shoulder. THE GREAT MAN'S daughter, Barbara DuBridge, arrived in true elegance, behind the massive hood of Schuyler's Rolls-Royce. This must have set Haber back the price of about 13 gallons of gas, but what class!

Crudites (my, what an apt term) Dan King, and Stan Boicourt were happily enjoying the evening, Boicourt with his own date, but Crud's own erstwhile operator, Willis, was nowhere to be seen. Finally someone glanced up at his window, and there, his little (?) nose pressed wistfully against the window pane, was he, dateless, and his slide rule clutched in his hot hand, the epitome of nakedness. Repent, repent, repent, lest all be lost. Toward the end of the evening, when the urge to economize on the lights in Ricketts lounge got particularly strong, some vandal persuaded Richie Smith's Sophie to turn them all on. Sereno was so utterly shocked at the tableau thus unfolded to his young and innocent eyes that he has proclaimed, "Either those men move out of the house, or I do. The present moral tone is too abysmally low to endure." It was nice living with you Al.

The Eagle Eye, on driving up Lake Street, has noticed a suspicious sign which advertises the establishment of one Dr. Ziegler, a prosperous Veterinarian; we looked again at the publicity



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Honor System

(This is the first in a series of three articles to appear in the California Tech concerning Caltech's Honor System).

At the first meeting of the new Board of Control last week, a program was outlined for the purpose of publicizing, improving and expanding Caltech's Honor System.

Inasmuch as there is a great deal of confusion in the actual mechanics of reporting a suspected violation, the Board felt that an immediate clarification of the suggested procedure is very necessary.

It cannot be over-emphasized that the success of the Honor System depends entirely upon the individual reporting suspected violations immediately.

The recommended procedure is the following:

- 1) When a man suspects a violation of the Honor System during an examination, he is strongly urged to announce to the class that someone has been observed cheating, at the same time withholding the suspect's identity.
- 2) All violations of the Honor System, during exams or otherwise, should be reported to a member of the Board of Control on the first offense. The Board will decide whether or not the case merits a trial. If it does not, no written record will be kept. Inasmuch as the reporting of a man to the Board is not automatic evidence against him, you are encouraged to turn in any suspected infractions. If possible, the report should include such details as the names of men from whom the individual is suspected of copying. This evidence is very important in the Board's review of the case.

The following men are the new Board members:

Dave MacKenzie, chairman; Ollie Gardner, secretary; Ralph Lovberg, Bill Palmer, Dick King, Don Baker, Don Royce, Fred Wood, Neal Pings, Bill Wise, Jack McEwing.

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Consolidated Charity Drive

At last Thursday's meeting of the Board of Directors Dave MacKenzie, Vice-president, having done much careful research on the drive situation here and at other schools, presented his report and recommendations for the consolidation of the various drives on campus, exclusive of the Y.M.C.A. drive, into one annual drive to cover them all. He reported that for sometime Pomona had been carrying on such a program very successfully and that such a program here would eliminate the continual drive objections that have been prevalent in the past.

The Board thereby adopted the plan to have one consolidated drive a year to be held in the middle of November with the Vice-president of the ASCIT as the Drive Chairman. He will organize the drive in much the same way that the "Y", with its experience, has shown most satisfactory.

A donor will be able to make specific contributions to any of the organizations, the WSSF, the March of Dimes, the Red Cross, or the Community Chest, by designating his choice in the space provided on the pledge cards, which will be distributed during the drive. The manner of payment will be either cash at the time of the drive or payable on the following regular Institute bill at the discretion of the donor.

The Y.M.C.A. has generously donated their services in helping the ASCIT administer the drive in spite of its not being a "Y" drive, for which the Board is very appreciative. The Board hopes that it will receive the fine cooperation and support that the "Y" has received in the past.

Raise In Dues

It is imperative that everyone in the Student Body give their attention to the election this Friday by which the dues will be raised, as described elsewhere in the paper. The Board, after much discussion on the subject, feels that this raise is very necessary for the continuance of ASCIT functions as we have known them in the past. It might be noted that in spite of the continual rise in costs during the post war inflationary period, the ASCIT has never had a raise in dues. It seems obvious that some means of greater income is necessary to meet the greater expenses of today. It is therefore hoped that all will give some serious thought to the matter, and be sure to vote tomorrow afternoon.

Ollie Gardner.

FIRST 200-INCH VIEWS



The above, one of the first photos made with the telescope, shows Messier 81, a "close" spiral nebula.

Hale Telescope Faces Minor Readjustments For Perfection

Dr. Ira S. Bowen, director of the combined Mt. Wilson and Palomar Observatories, has announced that work has begun to remove the 200-inch mirror from the Hale telescope at the Palomar observatory so that it may undergo further figuring. It was previously reported that the final tests of the instrument have indicated that a slight correction must be applied to the outer 18 inch zone of the mirror in order to obtain the most perfect images possible.

First Photos

Simultaneously with this announcement, the first pictures made by the Hale telescope were released, one of which is reproduced with this article. It should be noted that these pictures have shown that the performance of the 200 inch mirror has lived fully up to expectations—the Palomar telescope has photographed objects twice as distant as any pictured before.

Perfection Sought

The necessity for the present repolishing of the mirror has

been dictated by a desire to obtain the most perfect instrument possible. Unfortunately, those pictures that are the most exciting astronomically—those that show galaxies at a distance estimated as a billion light years—cannot be reproduced well on the printed page.

Spiral Nebula

The object shown in the above picture is the Sprial Nebula Messier 81, a galaxy relatively close to our own system. The point of interest to this picture is that, for the first time, individual stars in the nebula are resolved. The significance of this lies in the fact that study of such of these stars that are found to be variable, combined with measurements of the relative brightness, can be used to determine the absolute brightness of these stars, and from this the actual distance of the nebula. The distance, which is found by this very accurate means, can then be used to check other, less accurate, methods of determining distances of astronomical objects.

Who Dealt This Mess

By Carl Fox

Thus far this term we have discussed only hands for which the par was to make the contract. But this week we consider the case of the defense. Par for this hand is for North-South. They should prevent their opponents' making game.

N			
S 9 66			E
H A Q 10 7			
H J 9 5			
C 9 6 2			
W			
S 10 7 4	S A Q 10 7		
H K 9 6 3 2	H J 9 5		
D 10 8 3	D 7 6 4 2		
C A K 10 5 4	C Q J 3		
S			
S K 8 2			
H 8 7 4			
C 8 7			
E			

South dealer, East-West vulnerable.
Probable bidding:

	W	N	E
P	1H	1S	1S
2D	2S	3D	3S
P	4S	P	P

The hand will probably be played at Four Spades although the bidding to reach that contract need not be that given here.

South has no problems on the opening lead. He tosses out the King of Diamonds and Declarer must ruff on the board.

There are two possible lines of play which East may adopt. He may choose to finesse the Spades and then run Spades and Clubs. Or he may prefer to ruff two more Diamonds on the board, gaining entry to his own hand with the Clubs, concede the Spade King, draw trumps, and run the remaining Clubs. We will consider the defense against either line of play.

Assume that Declarer decides to try the Spade finesse at the second trick. From South's hand it is apparent that East hopes

to force out the trump King while dummy still holds a trump to stop the Diamond suit. Consequently South must hold up the Spade King. Now Declarer is helpless for, no matter how he may squirm, he must lose one Spade, one Heart, and two Diamond tricks.

If Declarer elects to ruff Diamonds on the board the defense is somewhat more difficult. After the ruffing of the third Diamond West is on lead. Since two rounds of Clubs have been used already as entries to East's hand a Club lead is sure to be ruffed. So the lead must be a Heart. This North must win. Now North should lead a Club since a count shows that this will knock out East's only possible entry to the board and may also permit partner to ruff. South wins with the Spade deuce and returns a Diamond. When this wins another Diamond is led. East will ruff but must still lose the Spade King for the setting trick.

Actually East's best move is to lead a low Heart from the board to the second trick. Defending against this line of play, North should win with the Queen and return a trump. This must not be won by South if Declarer ducks. Now the situation is as in the first case and the position of the offense is again hopeless.

The hand to be discussed next week is—

N			
S 5 2			
H K J 10 5 2			
D 10 8 3			
C A K 7			
W			
S 10 7 3	S J G		
H A 6 4	H Q 8 7		
D J 5 2	D Q 9 7 6		
C J 10 6	C 9 5 4 2		
E			

S 5 2
H K J 10 5 2
D 10 8 3
C A K 7

S 10 7 3
H A 6 4
D J 5 2
C J 10 6

S J G
H Q 8 7
D Q 9 7 6
C 9 5 4 2

S 5
H 9 3
D A K 4
C Q 8 3

West dealer, North-South vulnerable.

Worrell Sacrifices Self For Science

Who was this man? Was he a crusader from Alcoholics Anonymous, gathering speech material? Perhaps a spy from the ABC seeking damning evidence? Neither! 'Twas only Dabney's Ed Worrell, notebook in hand, noting reactions (his own) as a function of beers consumed. Quoth Raven Worrell, "Never Again."

Blackmail

Others attending the Dabney-Blacker-Throop barn dance seemed not so scientifically inclined, however, contentedly downing their rations with the thought that they would not have the horror of rereading an account of their exploits at a later and more sober date. And yet who can be sure that our scientific recorder confined observations to his own actions?—mutterings of blackmail averted!

Perchance more worthy of observation were the half-time activities, i.e. Crew Race and Flamer. With gurgling that would do credit to the most efficient of drainpipes, Dabney, led and coached by Don Royce and Cain, drowned all contenders (and those who sat too close) in the Crew affair.

Runoff

This deed, coupled with the outcome of the Ricketts-Fleming contest, has resulted in a situation demanding a runoff between Fleming, Ricketts, and Dabney for the Acme Interhouse Crew Race Trophy. Rumors of collusion will be confirmed if this contest, too, results in a tie.

Also won by Dabney was the Flamer; the winner team comprising Royce, Markoff, Wood, and Corbato. Royce now holds the distinction of being the only man at Tech to have swallowed several quanta of h u (courtesy of one ill-timed flash picture) with his otherwise glowing beverage.

Blackerites To Hold Spring Formal Dance

This Saturday night Blackerites and their dates will enjoy dancing to the music of Vern Rowe at their annual Spring Formal. The theme this year is on an Oriental Garden.

Decorations

Torches will flank the entrance to Blacker court archway while within a Buddha will overlook two incense braziers. Through large drapes the archway will open into the court in the semblance of a Temple opening into a garden. Silhouettes, lighted from behind will give the impression of an Oriental skyline, with special effects being produced by ultra-violet light and fluorescent paint.

High Point

The Spring Formal, in the past, has been the high light of Blacker's spring social season. With extensive preparations beginning early this week it is quite evident that this year's formal will rank with the best of any in previous years.

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Rowdies Schedule Playhouse Party

This weekend promises an exciting turn in the Ricketts social whirl with varied entertainment planned for Friday night. The Rowdies and their dates will journey to the Pasadena Playhouse to take in a bit of legitimate drama in the form of "I Remember Mama." Continuing in the mood, a record dance will be held in Ricketts Lounge after the play.

To round out the weekend a Rowdie Beach Party is scheduled for Sunday. A large turnout of sun lovers is expected as Mediterranean type bathing suits are not discouraged for the femmes.

Special Summer Course Offered In Scenic Tyrol

A fun-filled summer vacation, with an opportunity to learn and travel at the same time is promised those who attend special summer courses to be given in Austria this summer.

Besides the usual academic subjects, such as instruction in German language and literature, European politics, economics, and the history of art, an opportunity is given for participation in the famous Tyrolean school of mountaineering.

Although these courses are naturally limited to those students who can afford to take the trip abroad, the Austrian government claims that living expenses there are comparably lower than in this country, and has made special arrangements for the accommodation of American students.

Three of the schools are located in the famous scenic Tyrol at Mayrhofen, Alpbach, and Soelden; the fourth school is in Land Salzburg at Zell am See, on the shore of a gorgeous mountain-rimmed lake in the heart of the Alps. All four locations are superb for hiking, mountain climbing, sightseeing, hunting, and fishing, in addition to the usual summer sports.

Feeling that such a trip should not be missed by those who have the opportunity, either Olly Gardner in Ricketts or Bruce Stowe in Fleming will be glad to furnish further information to all those interested.

CAMPUS BREWINS

(Continued from Page 2)
but Butler tells us with pride that he has dodged her sinister designs on him. Pax nobiscum!

The sheer magnificence of the Barn Binge was such that there seemed to be nothing to do but contribute to liquid-owering operations on the kegs with the rest, many of whom did better than we. Frank Bumb and Dick Bartlett, without the hindrance of dates, managed to consume several hogsheads between them, for Bart left an unsightly stain on the wall under his room window, and Bumb, with some protest, had to be removed from Biggers' bed, whence he had staggered—with foolish and unoberving abandon!—upon his return from Mountain Hoax. For the true story of all that transpired at Mt. Oaks we are forced to wait for the organization and deciphering of a tattered bundle of notes that Ed Worrell made that evening. He was observed, getting more and more saturated, doggedly transcribing his reactions and observations. Toward the end of the evening, when he was leaning weakly against the wall where the sign says "We aim to please; you aim too, please," and still was recording, his overheated pencil slipped from his fevered fingers and went kerplunk! into that porcelain construction that juts out of the wall. Undaunted, according to MacKenzie, who was observed walking on the ceilings and walls, he fished it out and continued his epic. Bartender Ed Welch started the evening by keeping up with the whole party—every time he'd sell a beer, he'd drink a beer. This went on long enough to get even his not inconsiderable bulk well saturated. At the end of the evening he essayed to demonstrate his masculine superiority to Royce's date, who had been eyeing lustfully all evening, and engaged in a chug-a-lug match with her. She defeated

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words were: "I choked."

The frosh picnic evidently suffered no paucity of dates. John Noble was heard trying to sell them to recalcitrant frosh in the Ricketts court at 0830 Sun morn. The party ran into a bit of a snag when the local gendarmerie told them that brew and Baldwin Park don't mix. Lucky Baldwin must be rotating in his grave with a constant . . .

Ted Bowen started last Thursday evening at a bachelor party being given for a friend about to hit the long trail. Somehow he and a group of the boys, sans host, ended up at a joint drinking beer and champagne and playing table shuffleboard. Somebody's wife displayed so much enthusiasm over Ted's ability that the boys had difficulty getting him to desert the project at 0200, even though the bystanders assured him that hubby was soon to return from haying (this was out in the farm country, near Brawley). Bowen felt that he, too, should be making hay. His purity test score has sunk to 98 as a result of the lewd thoughts he has indulged in in the past few days.

Alex Dessler was indulging in a UCLA date the other night, and on his way left Enslow at a local movie house, promising to pick him up at a specified hotel lobby at 0100. His car developed the Chinese Rot on the way to the sorority, and was forced to crawl along at a grueling 5 mph. This got the gal in, besides trouble, at 0300, and by contriving to head for the Pacific instead of for home, Dessler was able to while away another hour. Finally at 0500, he got to the weary Enslow, at the appointed spot. Enslow had been having his troubles, too, as the hotel clerk was convinced that Jim was an insolvent, broken-down prizefighter—a category of human of which the clerk was inordinately fond, since his mother had been one, too—and kept wanting to give him a free room. Dessler took Enslow off to his own (Enslow's) little white bed,

Sitzmarking

with "Dutch"

At a meeting held Thursday, April 28th, it was decided that the Ski Club needed more officers than it has had in the past. The final decision was that there would be a President, Treasurer, Secretary, two Hut Managers, and a Race Manager.

New Officers

The Hut Managers will be in full charge of the Hut, taking care of improvements and running the Hut over the weekends.

The Race Manager will supervise the Interhouse Race and all Inter-Collegiate races.

The Ski Club officers for the coming year are: Dick Jones, president; Pete Price, Treasurer; and "Dutch" Vreugde, Secretary. The Hut Managers are Ollie Gardner and Norm Fink. Jim Blom was elected Race Manager.

Weekend Work Party

Plans are now being made for a work party at the Hut. This party will be held on Sunday and Monday of Memorial Day weekend. There has been some talk of free food and drinks, and it is hoped that those going will make it a date affair. More news about this in the near future.

where he went to sleep muttering to himself.

Earl Hefner, whom we have always thought to be as pure and upright a member of Blacker as existed, was seen with some amazement leaving the house on Friday afternoon carrying his overnight bag (inanimate). He left with the story that he was going to his grandmother's—and also chanced to mention that Joann's parents were away for the weekend—Well, perhaps.

Monday, on the way to class, we noticed something that illustrates the air about the campus last weekend. There, just past Apollo, were two empty bottles leaning against the wall. The bottles had not contained, as one might expect, beer—it was champagne.

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Sagehen Netmen Win Decisive League Match

Alexander, Martin Annex Only Singles Wins As Techmen In First Place Tie

The Engineer varsity tennis team lost a close decision to the Pomona netters last Saturday by the score of 5-4 on the winner's courts. The loss, first of the season for the Beavers, dropped the Beavers into a first place tie with the Sagehens.

With both schools having one match remaining to be played against a weak Oxy team, it is likely that the conference standings will end in a first place deadlock between Caltech and Pomona.

Four Single Losses

After successes in only two of the six singles events, a clean sweep of the three doubles matches was required by Tech's racquet wielders to bring home the bacon. Unfortunately, the Pomona first doubles duo played superb tennis to dash the Engineer victory hopes by a decisive 6-1, 6-1 count.

Alexander, Martin Win

Bright spots in the afternoon's activities were Ed Alexander's 2-6, 11-9, 6-1 win over Larry West, and Jack Martin's victory over Jim Scherfee by the score of 8-6, 5-7, and 6-3 in the singles. While in the doubles, Sid Stone and Larry Nobles defeated Seeley and Hatch 6-3, 6-4, as Dean Blanchard and Jack Poindexter won 6-4, 6-4 over Sherfee and Kenyon.

Moan!

On the red side of the ledger we find Sid Stone dropping a close match to Pomona's Don Woolsey by scores of 3-6, 6-4, 6-4. Larry Nobles was edged 6-2, 3-6, 6-1 by Jack Baker; while Jack Poindexter met his first conference defeat 6-1, 6-1 at the hands of Don Seeley. Dean Blanchard went down 8-6, 6-3 after a hard match against Grant Kenyon. In doubles, Tech's Alexander and Martin fell 6-1, 6-1 to Pomona's (Continued on Page 6)

Talkin' It Over With The Goon

Had a little tough luck this last week and only the batsmen emerged victorious. This places Easy Ed's boys right in line for a conference championship if they can come through in the next three games. Technically we are in second place with a 3-2 slate while Whittier is marked first with a 5-3 record.

Spaulding's First

Big hand of the week goes to Bam Spaulding who took the mound in a conference game for the first time this year. After the first inning Bam settled down to throw a beautiful game and was probably the deciding factor in the ball game. Dick Patterson was blasting the sphere with the same vitality that has brought him the birth on the All-Conference nine. With the score 2-0, Redlands, in the fourth Pat blasted the first of his three for five hits through the pitcher's box and evened up the score.

From there on the Beavers were never headed.

Snafu

In probably the most disorganized conference track meet in the last fifty years the Techsters didn't quite live up to the pre-race dope sheets. Things got off to a brilliant start when the heats for the 100 were announced and it turned out that all of the fastest sprinters were in the same heat, the next best in another, and the worst in the third. (Continued on Page 6)

Beaver Sports

Beaver Cinder Stars Take Third Place In Loop Meet

By Bill Karzas

To the surprise of no one, a powerful Occidental track squad took the team championship in the Southern California Intercollegiate Athletic Conference track meet last Saturday at Redlands. A small crowd saw the Tigers score 52½ points, followed by Whittier with 41½, Caltech with 28 1/3, Pomona with 27½ and Redlands with 15 5/6.

Caltech's taking of third place upset the dope sheet, as Pomona, which had earlier defeated the Beavers in a dual meet, was scheduled to beat them again.

Simons, Walt Win

Two individual championships were won by Tech athletes, as Herbie Simons took the 880 in 2 minutes flat, followed closely by team captain Stan Barnes. Martin Walt repeated last year's performance as he tied with Oxy's Berekoff in the pole vault at 12' 8¾". These two men were the only defending champions to hold their titles.

Dick Cornelius took a fourth in the mile run, followed by Jack Marshall, who finished out of the money. The race was won by Oxy's Lee in 4:34.0. Win Soule got into a three-way tie for fourth in the high jump to pick up a third of a point for the (Continued on Page 6)

Mason Scores

Pete Mason took an easy second in the two mile behind Ed Livengood of Redlands, and Don Peterson just finished behind

Stokes of Pomona for a fourth in this event. Dwight Schroeder ran into tough luck as he got tangled up with the high hurdles to finish out of the money, but came back to get a second behind Strom of Oxy in the lows.

One New Record

Only one new meet record was set, a 9.7 hundred by the Claremont Flash, Pomona's Reinke, who also took the 220 to be the day's only double winner. Chuck Shaller of Tech had the misfortune of being in the preliminary heat with Reinke and Parker in the 220, and though he came in barely a foot behind Parker, only two men were qualified from the heat. Chuck's lot was made even more bitter as he watched the first two heats, each consisting of two men who just trotted across the line to qualify.

Dick Cornelius took a fourth in the mile run, followed by Jack Marshall, who finished out of the money. The race was won by Oxy's Lee in 4:34.0. Win Soule got into a three-way tie for

fourth in the high jump to pick up a third of a point for the (Continued on Page 6)

Reds, Rowdies Share Top Spot in IH Volleyball League

Ricketts and Fleming are tied for first place in Interhouse volleyball play, as of last Monday night, with two wins each.

Blacker is next with one win and a loss. Throop and Dabney are sharing the cellar with two losses apiece.

Ricketts' upset win over Blacker last Wednesday, 10-15, 13-15, and 14-16, with three close games and Fleming's victories over Throop and Dabney mean a decisive game next Tuesday when Ricketts meets Fleming.

Standings

The Volleyball series winds up the interhouse schedule for this year. The final probable standings in the race for the Interhouse trophy look like Fleming in first place, Ricketts in second, Dabney, a close third, Blacker fourth, and Throop, a game fifth.

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Tech Routs Redlands As Infield Shines

Spaulding Limits Bulldogs to 8 Hits; Beavers Move Into Second

By Thorne Butler

Moving into second place, the mighty Engineer baseballers walloped Redlands to the tune of 12-3 in a S.C.I.C. game last Saturday at Tournament Park.

From the grandstands the Beavers look just short of sensational. That double play by Morrison to Pfeiffer was beautiful. "Moe" must have thrown the horseshoe way over 200 feet for the play. The whole team was really playing heads up ball, as they put on an exhibition of flawless baseball.

Inept

From the start the Bulldogs were out of it. Their team was playing center field. Mr. Waters has been suffering from a bad shoulder and was unable to pitch. Without him, the Redlanders were completely helpless. The all-important infield was totally inept at even getting in front of the ball as the Beavers shelled two pitchers for a grand total of sixteen hits.

S.C.I.C. Baseball Standings		
	W	L
Whittier	5	3
Caltech	3	2
Redlands	3	3
Occidental	3	3
Pomona	2	5

Style

In comparison the Tech infield played beautiful ball. The team work and speed was certainly worth marveling at. And the best news is that all of these men are returning for two more years of eligibility.

After looking over the other infields in the conference, the (Continued on Page 6)

Tigers Favorites To Repeat SCIC Swimming Title

Oxy will be odds-on favorite at the Conference swim meet Saturday to retain the S.C.I.C. water crown. The Tigers will host the other four loop schools.

Heinikin Hot

Last Friday, in the same place, there was a preview of this meet in the form of a duel meet between Tech and Oxy. The outcome of this meet settled any doubts that might have still been around as to the outcome of the conference. Oxy was hot! Paced by Heinikin, Oxy set two conference records: one in the medley relay and a 54.6 for the hundred free style.

Frosh Win Again

The Frosh managed to retain their unbroken string of conference victories and should have no trouble in winning the Conference meet. Keepes, Von Herzen, Cagle, and Weil should form the nucleus of a victorious team.

The way the meet Saturday seems to line up is Oxy, Tech, Pomona, and Redlands. Tech and Oxy should split all the first three places between them with (Continued on Page 6)

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BELL TELEPHONE SYSTEM



DR. ROBERT F. BACHER

(Continued from Page 1)

large divisions of that Laboratory and made important contributions to the development of military radar equipment.

Los Alamos

In 1943 the Radiation Laboratory released him to become chairman of the important bomb physics division of the Los Alamos Laboratory which was then being established by the Manhattan District to carry forward the development of the atomic bomb. He was a key man in the Los Alamos Laboratory, headed by Dr. J. Robert Oppenheimer, a former Caltech professor. Dr. Bacher supervised the development of the nuclear component of the bomb and personally assembled this component for the first test bomb which was fired at Alamogordo, New Mexico, in July, 1945.

Professor at Cornell

At the end of the war Dr. Bacher returned to his position as professor physics and Director of the Nuclear Physics Laboratory at Cornell University, from which position he was called to serve on the Atomic Energy Commission. As one of the five members of the Atomic Energy Commission he has taken an important part in the transfer of the atomic energy work from the Manhattan District of the United States Army to the civilian control of the Commission, and in building the atomic energy program to its present peace-time status. The activities of this Commission have involved the expenditure of up to nearly one billion dollars annually.

Policy

"The appointment of Dr. Bacher is a further step forward in the Institute's policy of attracting top flight scientists of the country to the Institute campus," said Dr. DuBridge in announcing the appointment. "It has been evident since 1946 that the important post of Chairman of the Physics Division would be more adequately filled by Dr. Bacher than by any other man in the country and it is a matter of great satisfaction to know that the important activities of this division will henceforth be directed by so able a man. He brings to his post not only a distinguished record of achievement in research in atomic and nuclear physics, but also a brilliant record of scientific administration. He is personally well known to campus faculty members, since he served as a National Research Council Fellow at Caltech in 1930-31. His appointment was enthusiastically recommended by the faculty members of the Physics Division."

Dr. Bacher was born in Loudonville, Ohio, August 31, 1905. He received his Bachelor's degree and his Doctor's degrees in physics from the University of Michigan, the latter in 1930. While at the University of Michigan he met Miss Jean Dow, a fellow student at Michigan, and they were married in 1930. They have two children, a daughter Martha, 14, and a son Andrew, 12.

Following his graduate work at Michigan Dr. Bacher came to Caltech for a year and then spent a year as Research Fellow at M.I.T. After another year in research work at the University of Michigan and a year as instructor in physics at Columbia University, he went to Cornell as Assistant Professor in 1935, was made an Associate Professor in 1940, and Professor and Director of the Nuclear Physics Laboratory in 1945.

Presidential Medal

In 1946 he was awarded the Presidential Medal for Merit, the highest civilian award for military service, in recognition of his outstanding work with the atomic bomb project. He is a co-author, with Dr. S. A. Goudsmit, of a book "Atomic Energy States," and is the author of many technical papers and various physics journals. He was elected to membership in the National Academy of Sciences in 1947.

TIGERS FAVORITES

(Continued from Page 5)

a possible exception of the diving. If Tech should have a streak of bad luck Oxy could get all the first places. There are only about three events in which Tech men stand a chance: Palmer in the breaststroke, Libbey in the 220 free and Harris in the 50 free. The rest of Tech's points will have to come from seconds and thirds.

FROSH SPORTS

(Continued from Page 5)

ly. Dave Koons hit a pair of singles while Karasawa smashed a 'ground rule' double that the Redmen are still looking for. Gray cracked a fine 3 hit ball game all the way. We know 9 Beavers that are waiting for a return engagement with the country boys.

Netters

With only the Conference Tournament of May 21 left, Frosh racketmen closed league competition with a defeat at the hands of Pomona last Saturday. The Sagechicks triumphed 6 to 3, placing Tech third in the league standing.

Cindermen Second

With the conference meet at Redlands now history, Frosh trackmen are ready to trade in their spikes for a large, varsity size. Closing with an undisputed second place, the cinder sons have a season behind them to be proud of and should be a warning to conference schools of things to come. Especially notable in Saturday's meet was Irwin in the high hurdles and McEwing and Tautz in the pole vault. Irwin finished a yard behind an Oxy runner who timed 15.0 sec., exceptional when we realize that Caltech Frosh record for the highs is 16.20. McEwing and Tautz took first and second honors respectively on the top end of the bamboo pole.

Gad!

Mary: What made General Pershing so sick?

Ann: Oh, things in general.

ASCIT TO DECIDE

(Continued from Page 1)

Voting will take place from 11:00-4:15 tomorrow at the usual places. Anyone wishing absentee ballots should see Dick King, room No. 1, Dabney, by midnight tonight.

SAGEHEN NETMEN

(Continued from Page 5)

team of Woolsey and West.

At the time of this writing, the results of yesterday's tilt with Oxy on the Tournament Park courts are not available. Saturday, Coach Johnny Lamb's netters journey to Pepperdine to engage the Waves in a practice match.

GLEE CLUB

(Continued from Page 1)

that a man with whom music is a profession, not just a hobby, has been in charge of these groups. It is the hope of the glee club members that the experiment has proved a success. Not only are the members enjoying the rehearsals, but they are also receiving a musical education in the process. No longer need they feel that the hour and a half is a complete loss as far as increasing their knowledge is concerned. And, after all, what else is a Tech man interested in?

Concert Scheduled

Look in next week's paper for the announcement and the program of the coming concert. And make it a point to reserve the time, 11 a.m., Friday, May 20, for a, not professional, but good musical concert.

TECH ROUTS REDLANDS

(Continued from Page 5)

Beavers have the All-League boys playing on their side. Lads as Walt Pfeiffer, Lou Stallkamp, Chuck Norman, and Wayne Newman comprise the best defensive infield in the conference. And also they have two of the most consistent hitters: Stallkamp and Norman.

Spaulding

Bam Spaulding made the come-back road to the mound with some very fine twirling. He scattered eight Redlands hits and always could depend on excellent support from his mates in the rough spots. Especially in the eighth when the Bulldogs started to stage a rally, the boys held tight.

Next week the Engineers travel to Claremont to tangle with the Sagehens. In their last encounter, the Beavers had an easy time and should repeat again. Ed Preisler has been working with an improving squad all season and we are sure that a conference championship is in the making.

Box score:

Redlands	AB	H	O	A	Caltech		AB	H	O	A
					Jones,If	4				
S'gler,2b	3	1	1	1	Pfeiffr,3b	4	3	3	3	0
Boyd,rf	3	1	0	0	S'kamp,2b	4	2	4	1	0
W'ters,cf	4	1	5	0	N'm'n,ss	5	1	1	4	1
Parker,c	3	2	6	1	Mor'son,If	5	1	3	2	0
Zink,ss	4	2	1	2	White,If	0	0	0	0	0
W'ver,1b	3	0	8	0	Kam,rf	4	1	1	0	0
M'tch'l,1b	1	0	0	0	Baker,rf	0	0	0	0	0
Lloyd,3b	4	0	2	1	Petr'l,s,c	5	2	2	0	0
Duncan,p	1	0	2	0	N'm'n,1b	4	2	12	0	0
Kriug,p	2	0	1	0	Sp'l'd,g,p	2	0	0	2	0
Totals				32	8	24	7	Totals		
Redlands				200	000	0010	3	C.I.T.	
				000	520	05x	12		

E—Jones, Siegler, Zink, 2, Lloyd, Duncan, Norman, BB—Spaulding 4, Duncan 3, Kriug 2. SO—Spaulding 1, Duncan 2, Kriug 2. SB—Pfeiffer, Neverman, DP—Morrison-Pfeiffer. Loser—Duncan.

TALKIN' IT OVER

(Continued from Page 5)

Thus only two were chosen for the finals and Shaller got the proverbial "shaft" even though he turned in his best time of the year—10.0.

Schroeder Hurt

Dwight suffered from a couple of bad breaks that could have meant the difference between second and third. One of those wooden things jumped off the track and smacked into his knee, which just didn't seem to help a bit. Game leg and all, Dwight managed to cop a second in the lows. Herbie Simons turned in the blue ribbon performance closely followed by Barney in the half. Two minutes flat won't win the Olympics, but it's a great credit to the Herb, not McKinley, who has really put out the work this year.

Stan kissed the great sport good-bye Saturday, even though the papers ran no feature story, "Barnes Bows Out at Conference Meet." A lot of power to Stan who has more than once proved himself a fine competitor.

Choke!

The mermen were slightly swamped by the Tigers last Friday. We didn't manage to win even one event. Oxy must have been funneling some of those hot Fullerton JC boys over because they showed plenty of power in each race. Best showing for us was Bill Harris' 100. The only man on the team with a built-in inner tube, Bill claims that it requires less effort to keep afloat and thus he swims faster. Flap-

BEAVER CINDER STARS

(Continued from Page 5)

Beavers.

Relay Team Scores

The Beaver's mile relay team came through with the chips down in the last race of the day, taking a third ahead of Whittier, to avenge an early season defeat, and to pick up the necessary 2 points to beat out Pomona for third place in the meet. The team consisted of Erle Brown, Herbie Simons, Bill Sylvies, and Doug Brown. Sylvies turned in the best lap with a 49.9.

Results:

100—Reinke (P), Mason (R), Strom (O), Hayes (W) :09.7.
220—Reinke (P), Parker (O), Ruprecht (O), Mason (R) :21.5.
440—Parker (O), Newton (W), Saibichi (P), C. Kamanski (O) :49.5.
880—Simons (CT), Barnes (CT), D. Kamanski (O), Cotter (O) :2:00.0.
Mile—Lee (O), Moreman (P), Liven-good (R), Cornelius (CT) 4:34.0.
2 Mile—Livengood (R), Mason (CT), Stokes (P), Peterson (CT) 10:08.4.
High Hurdles—Baudrand (W), McClung (O), Schlegel (O), Myers (W) :15.1.
Low Hurdles—Strom (O), Schroeder (CT), Baudrand (W), Schlegel (O) :23.9.
Mile Relay—Occidental, Pomona, Caltech, Whittier, 3:22.0.
Shot Put—Yates (W), Tyson (CT), Levin (O), Feary (W) 47' 8".
Discus—Locher (O), Lewis (CT), Colbath (P), Pearson (O) 133' 1".
Pole Vault—Tie—Walt (CT) and Berekoff (O); Tie—McMurry (O), Lapp (P), Yarborough (P), and Crandall (W) 12' 8½".
High Jump—Price (W), Tie—Dotty (O) and Beckman (R); Tie—Soule (CT), Copeland (W), and Condy (R) 6' 1¼".
Broad Jump—Tucker (W), Welsh (P), Harris (W), Meyers (W) 22' 4¾".
Javelin—Reid (W), Tucker (W), Ward (R), McColl (P) 173' 1 1¼".
Final Score—Oxy 52 1/4, hitter 41 1/2, Caltech 28 1/3, Pomona 27 1/2, Redlands 15 5/6.

per foot Libbey is just about due for a few fast sprints. Maybe the conference meet next Saturday is the place for Dick to go all out.

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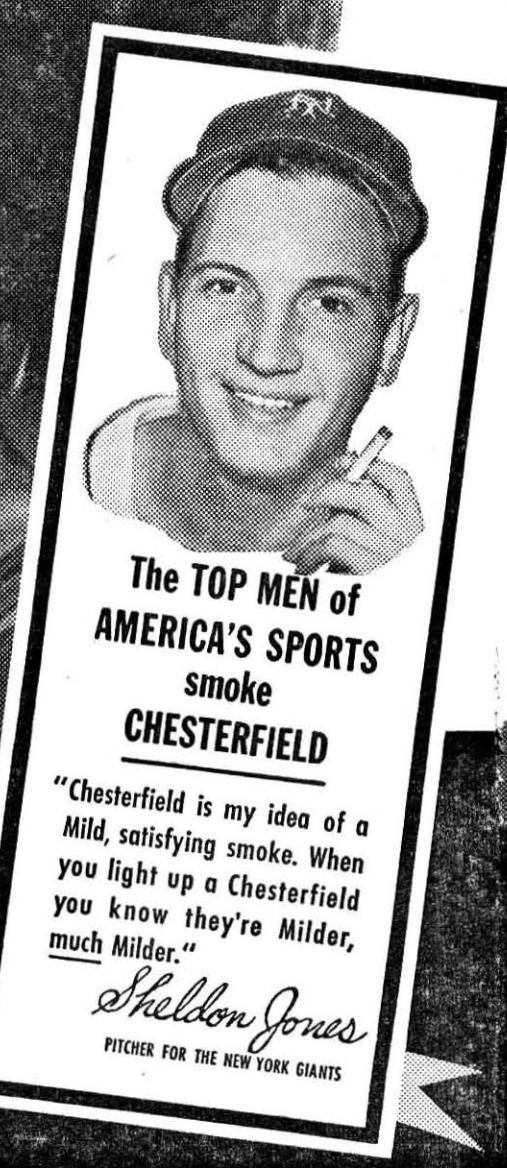
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