

The California Tech

California Institute of Technology

Volume LIX

Pasadena, California, Thursday, April 3, 1958

Number 21

ASCIT Play Rehearsals Begin Tonite

The cast for this year's ASCIT play, "Remains To Be Seen," has been announced by Drama Club president Wayne Nelson. It includes John Conover as Goodman, a murdered man's lawyer; Ken Dinwiddie as Waldo, a young, naive apartment manager with a passion for drums; Bob Poe as Rosenberg, a cynical police inspector; and Stu Goff as Miller, a flatfoot with an appreciation of pornography.

Also selected were Tom Jovin as Gonzales; Diana Beveridge, who appeared in the last two ASCIT productions, as Valeska Chauvel; Wayne Nelson as Doctor Gresham; Mike O'Malley as undertaker Fleming; Jim Uleman as undertaker Clark; Mike Peters as Lieutenant Casey; Mike Talcott as Detective Watson; Bill McLennan as Patrolman Johnson; Larry McCombs as Inspector Delapp; Larry Sloss as Detective Davis; and Dave Kipping as Detective Weiner.

(Continued on page 2)



ASCIT Photo

Dr. Wolfgang Pauli

Pauli Spends Week at Tech

Dr. Wolfgang Pauli, Austrian physicist well-known for the "exclusion principle" which bears his name, concludes a week visit to the Tech campus tomorrow. Tuesday afternoon he lectured on "Complex Roots in the Lee Model," and this afternoon he will journey to Palomar.

Study of the quantum theory and wave theory of the atom won Pauli a Nobel Prize in physics in 1945 for his "principle" that no two electrons can have exactly the same set of quantum numbers. He began his education in Vienna, and studied for his Ph.D. under Arnold Sommerfeld at the University of Munich in 1921.

He became an assistant to Max Born at the University of Göttingen and later worked under Niels Bohr at the University of Copenhagen. In 1928 he was appointed professor of theoretical physics at the Federal Institute of Technology, Zurich, Switzerland. Under Pauli's guidance, the Institute became a leading center of research in theoretical physics in the years before World War II.

In the last twenty years he has been in the United States as a visiting professor of theoretical physics at Princeton, Michigan, and Purdue Universities and at present he is working at the University of California at Berkeley.

India's Radhakrishnan Here For Three Day Y Visit

Three Other Officials Accompany Famous Philosopher, Statesman

by Howard Weisberg

A rare opportunity to see and hear the foremost modern Indian philosopher is available to Caltech students today and tomorrow as Dr. Sarvepalli Radhakrishnan, Vice-President of India, visits the campus as a part of the YMCA Leaders program.

Tonight he will deliver an address on a topic which he has pursued throughout his long and turbulent life, "Indian Philosophy and Religion," at 8:00 in Culbertson Hall.

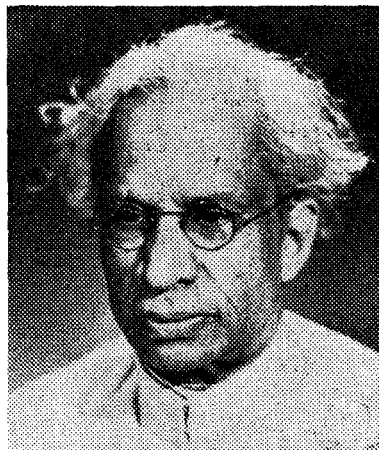
He gave a preview of his forceful, provocative style yesterday afternoon in the Athenaeum when he spoke on "Science and Religion," presenting a philosophy which, rather than being in conflict with science, is actually provoked by it. He emphasized the inner similarity of many different world religions and the minor importance of form.

Radhakrishnan's three-day visit to Tech is part of his current tour of the country, which began March 17th and during which he has stopped at several American colleges, including the University of Chicago and Harvard. The students whom he met are warm-hearted and open minded, he stated. He has visited Caltech before, in 1953.

He has been active in Indian political life, having been ambassador to Russia, head of the Indian delegation to UNESCO, and chairman of UNESCO, prior to being elected vice-president. His political duties as vice-president are minor, he says, although he admits to being available as an advisor to the Indian leaders when they desire, and he is known for his efforts towards East-West cooperation.

Besides the three major addresses, numerous opportunities have been scheduled for students to meet Radhakrishnan in smaller groups. He will eat dinner in the four houses, and will also eat tomorrow night with members of the YMCA. A student

(Continued on page 2)



Dr. Sarvepalli Radhakrishnan

THIS WEEK

Wed-Fri., April 2-4 — Radhakrishnan visit

Fri., April 4 — Fleming, Dabney, Blacker theater parties

Sat., April 5 — Interclass track meet

Baseball, San Diego at Tech, 2:15 p.m.

Tennis, Tech at Cal Poly, 1:30 p.m.

Ricketts house party

Fleming inter-alley party

Dabney installation party,

Blacker "Tramp Stamp"

Sun., April 6 — Chamber Music Concert, Dabney Hall, 8:15 pm

Mon., April 7 — ASCIT applications due

Wed., April 9 — Baseball, Whittier at Tech, 3 p.m.

Thurs., April 10 — Tennis, U. of Arizona at Tech., 3 p.m.

Akselrod, Kuli, Polson, Cormia, Everett Elected

Gus Akselrod, Dennis Kuli, Kirk Polson, Frank Cormia, and John Everett were elected presidents of Blacker, Dabney, Fleming, Ricketts and Throop Club in elections held at the close of second term.

In Blacker, defeated presidential candidate Walt Johnson was named vice-president; Clyde Zaidens is secretary; Ken Adams, treasurer; Jerry Hausen, athletic manager; Lee Hood, Roy Currence, and Randy Schmus, social chairman; and Bob Junkin is the new librarian.

Dabney's new vice-president is Dick Johnson; social vice-presidents are Lou Toth and Martin Carnoy; Dave Butterfield is secretary; Sid Roth, treasurer; Larry Long and John Munson, athletic managers; Pat Henry, comptroller; Joel Donnelly, librarian; and Doug Shakel, newly elected historian. Bob Lang was defeated in his bid for presidency.

Dick Montgomery, unsuccessful contender for Fleming House president, became its new vice-president; Ralph Cross and Karl Knapp are co-social chairmen; Tom Tebben is secretary; Nelson Byrne is treasurer; Dave Meese and Jon Wright are co-athletic managers; and Larry Sloss is librarian.

Ricketts House elected Dick MacAnally its new vice-president; Brad Efron and Frank Childs, social chairmen; Dick Baugh, secretary; Eldridge Moores, treasurer; and Len Malley and Carl Morris, athletic managers. Norris Huse was defeated for president.

Throop Club's election produced Bob Harmon for vice-president; Allen Porush, secretary; Fletcher Gross, treasurer; Dave Himrod, John Stene, and Marty Wolff, social chairmen; and Jerry Gaynor, athletic manager.

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"JPL built everything on the front end for the Explorer experiments," Pickering said. "This includes all the high-speed equipment, the pay load and the communications gear." The lab also developed the microlock tracking and telemetering gear.

When asked for a look at JPL's future Pickering said, "We're looking forward to more work with basic research and space programs and less weapons development. There are a lot of very interesting problems in propulsion, structure, aerodynamics, electronics and orbits that are far from solved."

ASCIT Awaits Applications

Applications for positions on the newly created Executive Committee, for Editor of the Big T, and for Business Managers of the Big T and California Tech will remain open until April 7.

Applications for the Executive Committee should be submitted to Mike Godfrey (B box in Ricketts); those for the publications positions should be turned in to Dave Spencer (S box in Fleming).

Candidates for Executive Committee positions will be interviewed by the ExComm members. Candidates for the publications positions will be interviewed by a committee consisting of the present office holder, the ASCIT Business Manager, and other members of the BOD.

Final selections will be made at the April 14 BOD meeting.

Other appointive positions will be filled by a similar procedure later this term.

Interview

JPL Chief Looks At Space Program

"The Jet Propulsion Laboratory will be part of the Army team that will carry out one or two lunar probe experiments," Dr. William H. Pickering said in an interview with the California Tech this week. Pickering, who has rocketed to national prominence since the debut of the Explorers last December, is the director of the Caltech-run JPL.

"About all I can say is that the lunar probes will probably take place within a year or less and that we will work with the Army Ballistic Missile Agency on the experiment. The main purpose of the project will be to develop techniques," he explained.

Pickering listed the Sputnik launching as one of the main causes of the accelerated space program in the U.S. "I wouldn't be surprised if the Russians are sorry now they scared us," he said.



Dr. William H. Pickering

"This satellite business has given the lab a lot of publicity," Pickering pointed out, "but only about a tenth of our people work on the project." (JPL employs

Moler Fills BOC Post

Freshman Cleve Moler has been named to the Board of Control. Moler was appointed by the BOC last term to succeed Bill Bauer who was elected secretary of the board.

Fifteen freshmen made applications for the position. Moler will hold office until the regular BOC elections at the end of this term.

Announcements

CHRISTIAN FELLOWSHIP MEETS SATURDAY

The Caltech Christian Fellowship, meeting on Saturday nights this term, will devote its first 5 meetings to discussing the basic beliefs of the historic Christian Church. The first meeting, which will include singing and light refreshments, will be at 7:00 Saturday night in Dabney Lounge.

AFSC MAN TO VISIT

Mr. Manley Johnson of the American Friends Service Committee will discuss summer service opportunities during his campus visit under Y sponsorship, April 10.

LOST WEEKEND LOST

Lost Week-End will be May 9, 10, and 11, and not as marked on the YMCA Calendar.

Editorial

ASCIT'S BIG YEAR

The highly publicized ASCIT organization is about to take its first steps this term. This initial year promises challenges as great as any faced by student government at Caltech. The relative success or failure of the new ASCIT in meeting these challenges will be a matter of great interest to those students who worked to revitalize ASCIT government.

The movement for ASCIT revision came at an opportune time, but the timing was no more than accidental. The surprising thing is that the proposal did not run into the expected wave of conservatism. This fact might either be a measure of student acceptance or student indifference. We are inclined to suspect the latter.

At any rate, the ASCIT government, and particularly the ExComm, must prepare to show an uncommon amount of interest and leadership during the coming year.

For Tech's student government must begin to worry about public relations between the student body and the outside world, at a time when institutions of education, and especially scientific education, will be enjoying unaccustomed public prominence. Our student government must be particularly alive to opportunities for improving relations between the student body and the local community.

The administration will call upon the ExComm for advice on the planning of the new seven-house resident system. The ExComm will have to make a serious attempt to formulate a philosophy of student life; the committee will have to assess carefully the contributions of the present student house system to Tech students' educational experience.

And during a time when the administration is reevaluating its educational policies, the ExComm must be ready to represent enlightened student opinion on this subject.

Finally, the ExComm should tackle the ever-present and elusive problem suggested by the terms "student morale," "student apathy," and "loss of motivation."

These demands will heap a lot of responsibility on a conscientious ExComm. But the amended ASCIT constitution does not require that the ExComm accomplish anything, and we cannot guarantee that the ExComm will be conscientious. The unfortunate thing is that if the present board follows the example set by previous boards, it will fail to recognize its responsibility. And such a failure would be compounded as a precedent for future boards. But characteristically, few students would notice, and few would care.

We hope the new ASCIT meets its demands with complete success. A successful term of office for the present board could be of great benefit to the student body. However, we would greet such a success not only with elation, but also with surprise.

Radhakrishnan

(Continued from page 1)
discussion group is planned for tomorrow at 3:30.

Accompanying the Vice-President are Mr. Raghunath Sinha, Consul-General of the Indian Embassy in San Francisco, Mr. M. A. Vellodi, First Secretary of the Indian U.N. Delegation, and Radhakrishnan's personal secretary, Mr. Phadke. These men will eat meals with the students and will be available to shed perspective on the current YMCA Leader.

ASCIT Play

(Continued from page 1)

The cast's first meeting will be this evening at 7:30 in Throop Club where director George Stephens will conduct the first of a series of workshops to acquaint the cast with general stage techniques and the special problems of theatre in the round.

The play will be presented in the round on May 22, 23 and 24, in Culbertson Auditorium.

President's Column

Last fall, after Freshman Camp had closed, there was considerable discussion of the Camp among the faculty and student body. The consensus was that the camp was lacking in well defined direction and meaning. The freshmen were a good deal less thoroughly introduced to the four years of education, change, and development which awaits them at Caltech than would be desirable.

It was with the above criticism in mind that the ASCIT Board appointed a student committee to discuss the basic ideas of the Camp and compile recommendations for improvements over last year's Camp. This committee met weekly during most of second term. It discussed first the question "Why is there a Camp at all?" Then, in the light of the answer to the first question, went on to list concrete ways in which the aims of the Camp could better be served.

The report of the committee has been completed, and is awaiting final approval of the ASCIT Board.

One major change in the Camp procedure which has already been worked out in conjunction with Dean Strong is the selection of the student members of the Camp staff by the ASCIT Board. Every student will be given the opportunity to demonstrate his interest in, and state his qualifications for membership on the Camp staff. Those who attend the Camp will be expected to spend considerable time in planning, preparing, and executing the details of the Camp.

MICHAEL GODFREY

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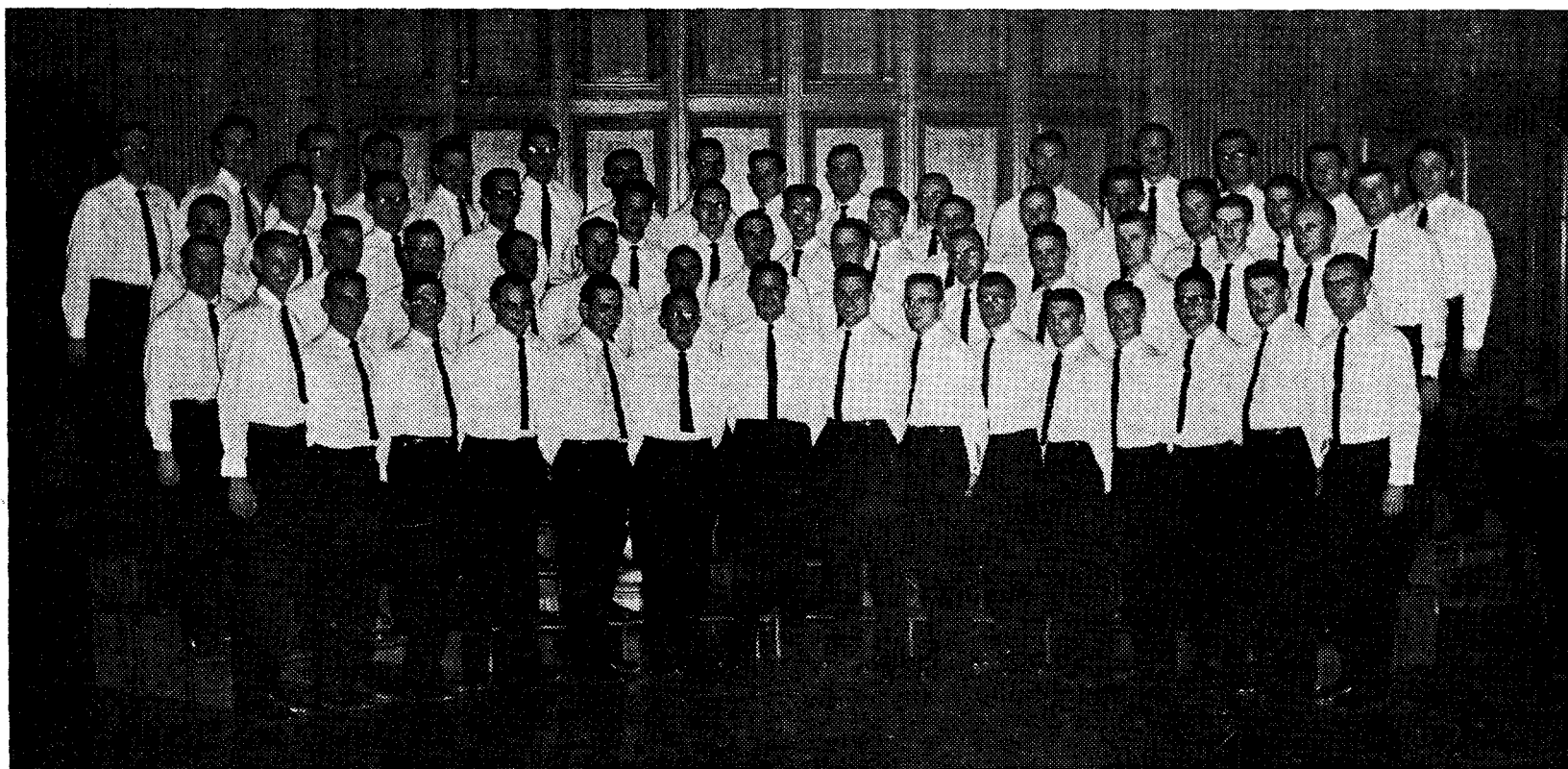
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Caltech Glee Club Eyes Big Future

Tech's fast-rising Glee Club boasts an enthusiastic membership consisting of fully one-tenth of the student body. In six years of singing the club has earned a top spot among west-coast organizations.



by Keith Brown

IF YOU chanced to walk into Dabney hall during the assembly period on Thursday, March 6, you saw an extraordinary sight — three reputable campus personages lying flat on their back on the floor doing arpeggios at full voice while a tall, striking-looking man urged them on to higher and higher notes.

These people were tenors in the Caltech Glee Club, and the strange position is typical of the many methods which Mr. Olaf Frodsham has used in the past six years to make this club into one of the better-known in the West.

SIX YEARS OLD: Six years ago, there was no Caltech Glee Club; a previous organization had gradually stagnated and become defunct. Then a group of students got together and, through the humanities department, secured Frodsham, a young professor of music at Occidental College, to direct their singing.

The first year the flatting was so bad that the piano rarely could accompany the club for more than half a number. But the dedication and perseverance of Frodsham and the members started to pay off, and by the third year of the club's existence it was giving concerts for a number of groups on and off campus. That spring it entered the Intercollegiate Singing Festival as an unknown and won second place, just behind Occidental, whose glee club has held a position of supremacy in the west for many years.

From that time on the enthusiasm of the members has kept the Glee Club a dynamic and growing organization. In 1954 it inaugurated the Interhouse Sing, now a popular annual event. As the club continued to grow in quality and reputation, it began to give concerts throughout the Los Angeles area.

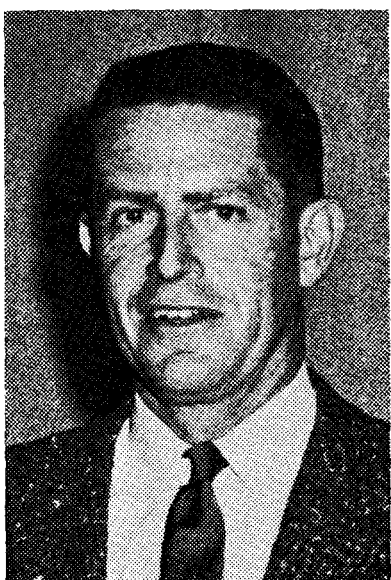
The Glee Club's first concert over the air was in 1956 at the Hollywood Presbyterian Church; after that, requests for concerts were usually far greater than the number the club was able to accept. With more concerts the reputation of the club continued to grow. This year the group took its first tour outside the Los Angeles area, spending two days in Bakersfield.

Being discussed and planned now are a three-state tour, a countrywide tour — even a trip overseas.

Frodsham, who lives with his family in Glendale, has worked in Southern California music circles for many years; among other groups he has directed the Occidental College choir and the music organizations of the Holliston Avenue Methodist Church.

He is presently leading an Episcopal Church choir, undoubtedly one of the best of its kind in the Los Angeles area, composed of carefully picked Oxy music majors and Tech Glee Club members. In addition, his exceptional ideas on vocal training have brought stars of radio and television to him for private lessons.

FRODSHAM'S UNTESTED IDEAS: When Frodsham first took on the Caltech Glee Club, many of his ideas were untested and unknown to the music



Olaf Frodsham

world. Through the Tech organization he has shown conclusively that better singing can be obtained through training of the muscles of the face, throat and diaphragm; and his experience with the students here has led him to the best methods of training these muscles for the different kinds of singing.

These ideas have led to the excellent tone quality and blend of the Tech club and have caused those members of the club who don't open their mouths enough to suffer great indignations during general and individual rehearsals.

Through the development of these methods of muscle control Frodsham has produced, using Techmen who had never sung before, singing of such quality that he has amazed many directors in other parts of the country. When sent a record of the

1957 club Captain Harry Griffith, the officer in charge of the West Point Glee Club, remarked: "The singing as recorded is as good as any recording of an Eastern glee club I have heard."

ESTABLISHED IN SOUTHLAND: A glance down the club's calendar shows that has established for itself a firm spot in the music of Southern California. Events which are now traditional are the broadcast concert at the Hollywood Presbyterian Church, the Interhouse sing, and a Spring Concert for the Caltech community, often given in connection with the Lost Weekend.

Popular new events this year were an evening concert at the Burbank Methodist Church and a joint sing and dance with the Pomona Women's Glee Club just before Christmas, which included caroling together in the courts of Harwood and Mudd-Blaisdell. These programs are expected to join the list of annual events.

The administration has begun to awaken to the possibility of using the Glee Club as a public-relations device in the Institute fund-raising drive. The club has already been asked to give two evening concerts for alumni associations in San Fernando and Long Beach.

TECH HOSTS FESTIVAL: As a measure of the vitality of the club, it is hosting the Intercollegiate Sing Festival for the first time in twenty years. The most important event of the college singing season, the Festival will bring men's and women's organizations from throughout Southern California to compete informally before the Pasadena public in Pasadena City College auditorium. The groups will assemble on the Tech campus to rehearse and eat dinner in the Student Houses. In the past three years Caltech and Oxy have closely matched for top honors in the men's division.

The future of the club is very bright. This year money has been contributed toward the purchase

of white dinner jackets for the entire club, modifying the present costume of black pants, white shirt and black tie, which the club has worn for two years.

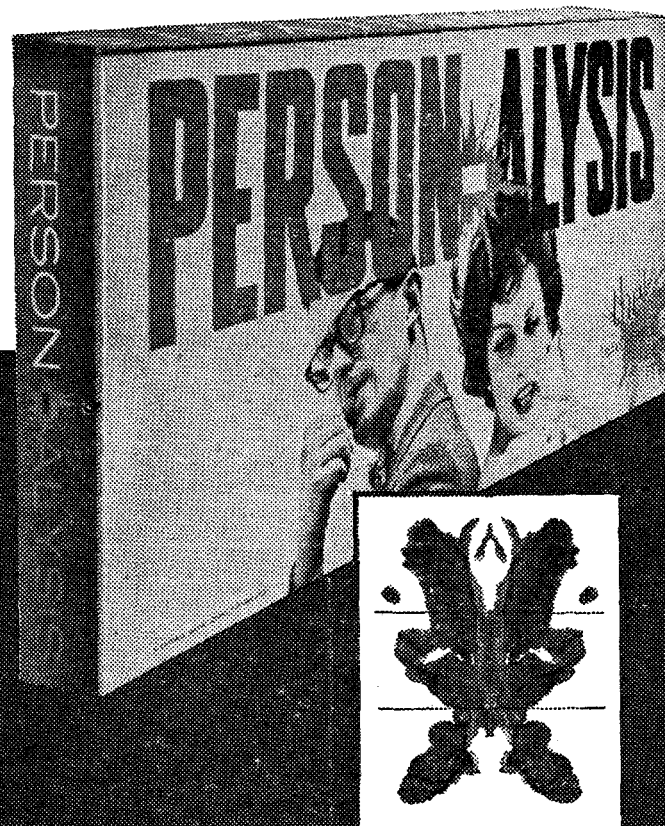
Next year, twice as much music will be bought to enable each member to have his own set for practice between rehearsals; which fact will probably mean that the club will be ready to perform in the middle of the fall term instead of early in the winter.

Frodsham and the present members have no intention of resting on their present laurels. A larger tour has already been planned for spring vacation next

year. With a devoted and ambitious director at the helm, and the faith of 60 members behind him, there is little doubt that the club will continue going places and growing in fame and quality.

Ask a glee club member what the future looks like and he is likely to say, "Watch our smoke." Representing nearly one-tenth of the undergraduate student body, as well as containing several graduate students, the Glee Club may easily make all of Caltech known to the United States for something above and beyond its scientific endeavors.

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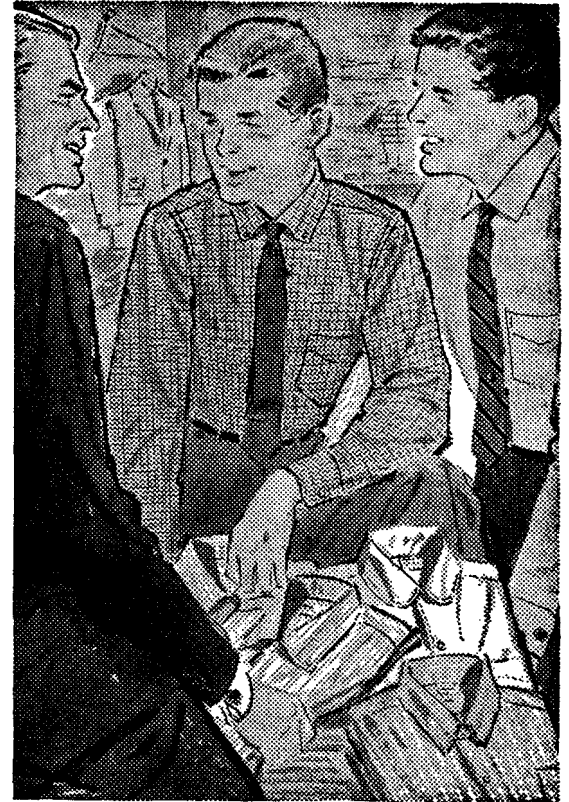
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Tech Nine Sharpened As I See It By San Diego Trip

The varsity baseball picture cleared somewhat over spring vacation, but a few spots are still hotly contested. The team dropped three in a row in San Diego, but rays of light showed through just in time for the beginning of the league season yesterday against Pomona.

Tony Howell dropped a heartbreaker against the San Diego Naval Training Center, going the route in an 11-inning 4-3 decision. But for a missed signal, Caltech could easily have revised this one.

After a rained-out game with Cal Western, the Beavers traveled to Morrow Field in San Diego to play the recently-formed San Diego University. Morrow Field must have been built for little leaguers (310 to left and right, 325 to center) and the score showed it—12-9, with a pair of homers each by John Walsh and Herman Hartung; just not enough to balance five by SDU.

New Emphasis Given to All-SCC Meets

The track and swimming conference championships will go to the winner of the all-conference meet this year, according to a recent decision of the Conference Faculty Committee. Previously, the won-loss records accumulated in the dual meets had determined the champion, saving the all-conference meet as only an anti-climax to the season.

Athletic Director Harold Muselman predicts that, following the recommendation of the Conferences Coaches and Managers Association, cross country will also be conducted in the revised manner.

At the same meeting the committee revised the eligibility rules concerning students on a three-two plan. They will now be able to play as many years as an athlete is normally eligible in a sport, including participation at both Tech and the other school. This improves the old plan that restricted such students to one year of varsity competition at Tech even if he had never played in the particular sport before.

Campus Brewins

Bitter Fruit

Stud Cunover and Wall-eye Bare were sipping sodas with their demure dates at a pub in Tijuana, claims a reliable informant to the Beak, when a satisfied customer aimed a lovely maraschino cherry at the performing comedian. The funnyman picked it up and ambled over to our heroes' table. "Parm me, lady," addressed he to Stud's girl, "I believe you lost something."

"I don't get it," puzzled Wall-eye's date.

"Me neither," mumbled Wall-eye with a truly resigned sigh.

Occupational Hazard

The Student House Office has visited an ultimatum on Scurvy's Father Frank Queermia. The way the Beak understands it, some maids were bustling around cleaning the lounge early Tuesday morning, and their vacuum cleaners kept getting clogged. Seems they were picking up bleery-eyed poker players. Maids claimed this played hell with the vacuum cleaners. "Sure played hell with the game," grumbled a poker player.

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Tech Athletes Gain National Ratings

by Dick Van Kirk

As an Arizona resident of eight years, I'm normally very happy to see a little rain fall now and then, but this spring in Southern California, land of eternal sunshine (above the clouds), persistent rainfalls have played havoc with local track and baseball schedules. With the all-conference track meet just one month away, Coach Bert LaBrucherie's team has engaged in only one dual meet and the conference relays. Coach Ed Preisler's baseball team also has been rained out of two or three games.

INOPPORTUNE RAINS: The bad part about the rainfall, from the athletes' point of view, is that the skies have been clear during the first part of the week, allowing heavy conditioning workouts, but rain has fallen on the weekends, forcing cancellation of contests and causing the athletes to wonder just what they are working so hard for.

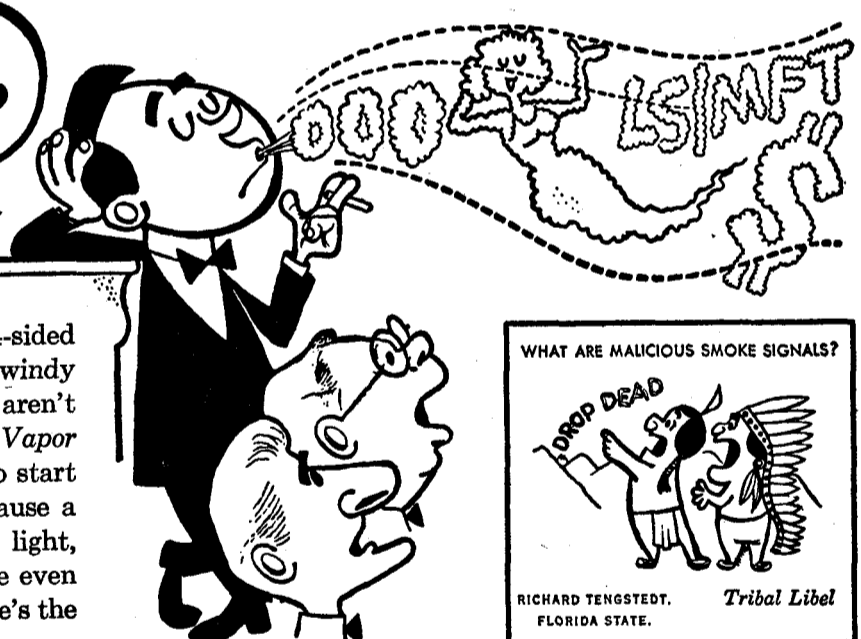
Many athletes, particularly in track and field, find themselves tense with expectancy and anxiety the last two or three days before a contest, and the letdown when they find on the day of the event that it has been cancelled has sometimes very noticeable effects on the person's demeanor and behavior for a day or so.

COUNTRY-WIDE RECOGNITION: On the brighter side of the athletic news, final statistics released by the National Collegiate Athletic Bureau show Fred Newman ranking 61st among small college basketball scorers with a 19.6 average, and the Caltech team listed third in the fewest personal fouls per game category. Newman thus takes his place among the Caltech athletes who have been among the nation's leaders in their respective sports in the past few years. One, of course, was Phil Conley, national champion in the javeline throw in 1956, and an Olympic team member.

Others in the current crop of Caltech athletes who have been near the top in national collegiate rankings include Don Owings, whose time in the 200 yd. breaststroke last season was only three seconds away from an All-American listing; Clarke Rees, an All-American backstroker in high school and an outstandingly versatile collegiate swimmer; Ed Krehbiel, 36th ranking small college ground gainer in football in his junior year; and an erratic left-handed quarterback who squeezed onto the lists in total offense and scoring during the last football season. Not bad for a group of intellectual eggheads who live secluded lives in the ivory tower of technical knowledge and athletic ineptitude.

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WHAT IS IT WHEN BOPSTERS SWAP SHOES?

MARY SPEES, BOWLING GREEN *Suede Trade*

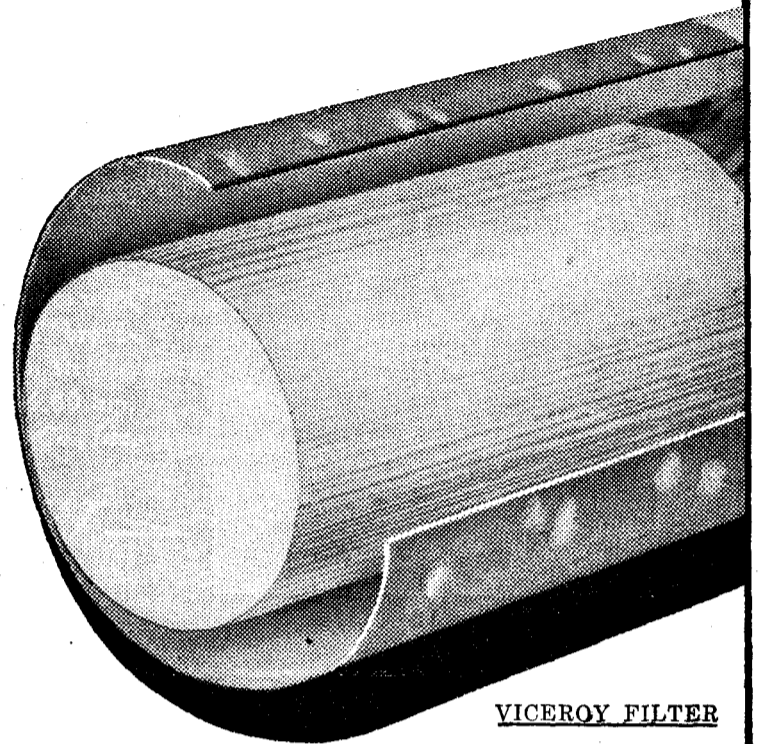
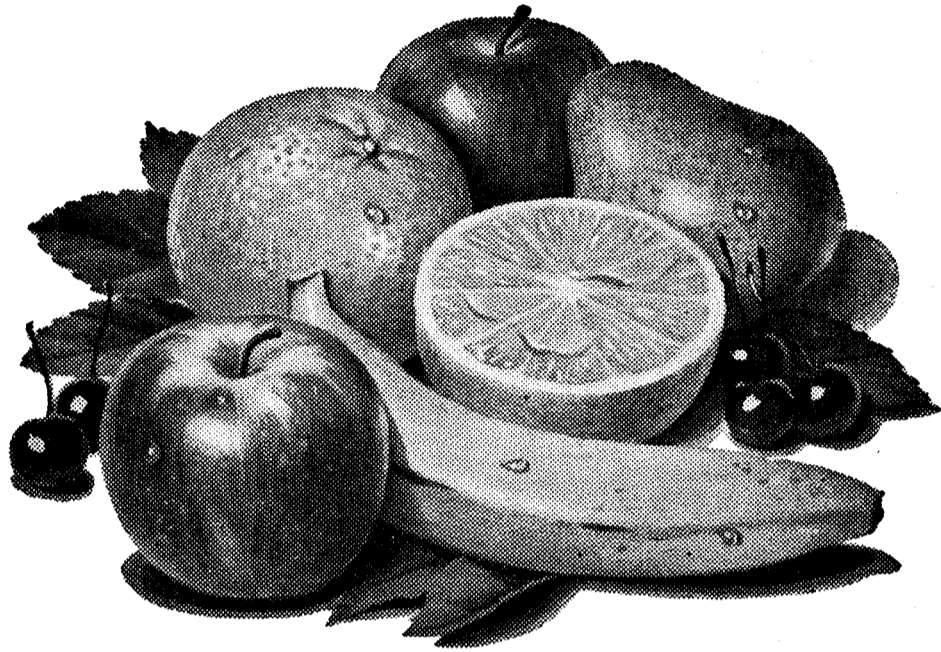
WHAT IS A 3-HOUR EXAM?

ROBERT STETTEN, LEHIGH *Mind Grind*

LIGHT UP A *light* SMOKE - LIGHT UP A LUCKY!

Product of The American Tobacco Company - "Tobacco is our middle name"

What does this fruit have to do with this cigarette filter?



THE VICEROY FILTER IS MADE FROM A PURE, NATURAL MATERIAL FOUND IN ALL FRUIT

—and it gives you **Maximum Filtration** for the **Smoothest Smoke!**

• From the same soft, pure material found in the rich pulp of nature's healthful fruits, modern filter scientists have created the greatest cigarette filter ever designed . . . the Viceroy filter. For the Viceroy filter gives you the *maximum filtration* for the smoothest smoke of *any* cigarette. More taste, too . . . the pure, natural taste of rich, mellow tobaccos. Yes, Viceroy gives you *more* of what you change to a filter for!

New crush-proof
flip-open box or
famous familiar pack.

VICEROY PURE, NATURAL FILTER...
PURE, NATURAL TASTE

