

—by A. Nonymous

Ciardi wins friends and influences Teckers by showing that poets are human.

Poet, Critic John Ciardi Discusses World of Poetry

John Ciardi, poet, critic, and YMCA Leader of America, completed his series of lectures and discussions at Caltech with an informal insight into a poet's mind. Yesterday at 4 p.m. Ciardi surprised the cultured Teckers thronging the Olive Court by de-emphasizing the subject matter of poetry in favor of its language. He stated that good poets have a deep "word sensitivity" and must "fall in love with the language." The most important point was that the significance and great-

ness of a poem do not necessarily depend on the vastness of its topic.

Ciardi spent three days on campus discussing various aspects of the world of poetry. He lectured on **How Does a Poem Mean?** on Monday, and on modern poetry Wednesday. Tuesday evening he recited poetry, including some of his own. Yesterday's informal seminar was the third of his series dealing with "Poet's Outlook" or "Poetry as a Way of Life."

Dumb Profs

In his Monday lecture, Ciardi said that the true enemies of poetry are the teachers who are always asking for the meaning of a poem. Quite often a poem does not have a transcendent meaning or a prime mover who compelled the poet to divulge his message to the world. A poem, as an expression of aesthetic art, may be composed of words which are used only because they sound nice together.

To force a transcendental meaning into such a poem is a crime, an alteration of truth and a distortion of the poet's feeling. A poem is not written to be interpreted. If the poet has a message to give it will be self-evident.

Rhyme, Rhythm

Ciardi stressed the importance of rhyme, rhythm, form, and metaphor in poetry. In a good poem these four elements are well executed and well balanced. He admitted that some poets achieve true art with "free verse," but he qualified this term. It does not mean absolute absence of order or rhythm, but rather a subtle arrangement of words which preserve a music of their own.

Dr. Harrison Brown, prof. of geochemistry, Dr. Albert Tyler, prof. of biology, and Mrs. Jesse McNeil, director of Pasadena Planned Parenthood, will discuss the world population problem tonight at 7:30 in Winnett Lounge.

McKinney Prize Winners Told

Steve Elliott, Joe Tymczyszyn, and Richard Stanley are the first, second, and third prize winners, respectively, in the annual McKinney Prize Essay Contest, it was announced this week by Dr. Kent Clark of the English Department. A three-man committee from the Humanities faculty judged their papers best from among some sixteen entries by En 7 students. For their efforts, the winners will receive cash awards of one hundred, seventy-five, and fifty dollars. In addition, each will be presented with a copy of Fowler's **Modern English Usage**.

The topic for this year's contest was "Shakespeare's Tragic Villains." Consisting of approximately 1500 words, the papers entered were based primarily upon a study of **Hamlet**, **Othello**, **King Lear**, and **Macbeth**, although reference to other Shakespearean tragedies was encouraged.

The McKinney Prizes were first given to Caltech in 1946 by Dr. Samuel McKinney, an alumnus of Rensselaer Polytechnic Institute, for the purpose of promoting good writing among science students. Similar yearly awards are also presented at Stanford and Rensselaer. Competition at Caltech is limited to members of the Junior Class.

Sloan Foundation Gives \$5 Million For Knowledge

A new phase of growth at Caltech was heralded today with the announcement by President DuBridge of a gift of \$5,000,000 from the Alfred P. Sloan Foundation of New York. This is not an endowment, but will be received in \$1,000,000 yearly installments for five years.

To be known as "The Alfred P. Sloan Fund for Research in the Physical Sciences," the grant will be devoted over a period of years to what Mr. Sloan, former head of General Motors, described as "the pursuit of knowledge for knowledge's sake."

While intended primarily for research in the physical sciences, including mathematics and engineering, the fund may also be applied where basic development in the physical sciences impinges on others, such as the life sciences.

One specific use will be to provide equipment and funds for younger scientists and for the development of ideas so novel that assistance would otherwise be difficult to obtain. This is consistent with the basic purpose of the grant. The money will not be used for construction of buildings.

Shot in the Arm

In acknowledging the grant, Dr. DuBridge said:

"This is not only one of the largest single contributions ever made to Caltech, it is also one of the most significant, for it comes precisely at a time when we are shaping up plans for an expansion of our activities that will entail the raising of many millions of dollars during the coming few years. It is thus a source of great encouragement to us to have this

generous initial gift, and we trust it will inspire others to provide the additional support we will require."

The grant was accompanied by the following statement from Mr. Sloan:

"It has long been my conviction that if this nation is to keep ahead in the competitive race for survival there must be not only greatly increased funds for basic research, but also competent and imaginative management of such funds. With this grant, the Foundation is seeking to help the California Institute of Technology further strengthen its already considerable efforts to advance American scientific knowledge and train young scientists. It is my hope that this Fund will stimulate other private sources to make support available for these purposes, at Caltech and elsewhere."

Sloan Philanthropy

The Sloan Foundation was established by Alfred P. Sloan, Jr., in 1934. It concentrates its present support on research and education in economics, business management, physical science, certain aspects of medicine, and general aid to colleges and universities, particularly those operating under private auspices. It has a substantial undergraduate scholarship program, and since 1955 has granted nearly \$10.8 million to 89 universities for the work of 446 young academic scientists.

Caltech is also receiving two \$5,000 grants from the General Electric Foundation for graduate study in chemistry and electrical engineering. This is part of a \$540,000 program providing 100 graduate research and study grants to 58 institutions.

Lost Weekend Brings Romance To Techmen

The gala and extended affair of Lost Weekend will inundate the campus with about 65 girls staying in Lloyd on Friday and Saturday nights. Many couples are expected to attend the All-Class Prom in the Huntington Sheraton Hotel starting Friday evening at 8:30 p.m. The voyage to Catalina Island follows on Saturday with more than 100 couples going either to Avalon or to the Isthmus. For those who wish to stick it out, there is the Sunday morning brunch at Manning's.

Quaint Music

After the dinner reception in the Olive Court from 6 to 8 p.m., the scene will shift to the All-Class Prom in the Huntington Sheraton. The Prom will start at 8:30 p.m. with the music of a four-man band under the baton of Warren Williams. Williams plays the piano and trumpet, while two of the members will alternate vocal support with the strummings of the guitar and electric base. And, of course, there is the drummer. The band has previously played at Arrowhead Lake. The numbers played will be relatively formal and will contain no "surfing madness." Contrary to a previous announcement, **black suits may be worn** instead of dinner jackets.

Unspoiled Paradise

The two boats for the 50 couples going to Avalon will shove off at 11:30 a.m., while the boat carrying the rest to the Isthmus will shove off at 12 noon (four bells). Avalon offers a tourist's paradise of atmosphere with many quaint shops while the Isthmus is a long stretch of unspoiled beach. All couples will rendezvous on the Isthmus at 5 p.m. for supper. The boats will shove off from Catalina at 8:30 p.m. and heave to at Wilmington at 10:30 p.m.

Check-in time for the girls staying on campus will be from 3 to 6 p.m. Friday in Lloyd. The girls will occupy at least the top floor of Lloyd; however, displaced Teckers will have access to their

rooms at almost all times except late at night. Those in the upper floor of Lloyd who have not made arrangements for accommodations someplace else are advised to do so. As of Monday, the decision whether to triple the girls in the 24 rooms of the top floor or to start evacuating the bottom floor had not yet been made and/or clarified.

Tau Beta Pi Honors Fifteen

BY PAUL SWATEK

Last Sunday fifteen juniors and seniors were formally initiated into Caltech's California Beta Chapter of Tau Beta Pi, the national honorary engineering fraternity. These men rank in either the top eighth of the junior class or the top fifth of the senior class. Their selection was based on character and participation in student activities as well as academic achievement.

Joining the more than 1200 individuals who have been initiated into the Caltech chapter since its establishment in 1921 were Pete Clark, Nick Djeu, Amos Levin, Ron Remmel, Terry Simpson, and Arden Walters, seniors; and Jerry Austin, Bill Colglazier, Doug Holford, Fred Mayer, Sean Solomon, Tim Stephens, Joe Tymczyszyn, Norm Uyeda, and John Walter, juniors.

Following the initiation ceremony the members and dates adjourned to the Athenaeum where they enjoyed a sumptuous repast. In addition to the honor conferred by membership in Tau Beta Pi, members share the duties of tutoring freshmen and selecting the recipient of the Tau Beta Pi Outstanding Freshman Award.

The chapter, though quite inactive in recent years, is busy bringing its internal machinery up to date and intends to take a more active role socially and in service to the campus.

Notices

BOC POSITIONS

Nominations for the position of House representative on the BOC next year were opened May 10 and close at 9 (five bells) next Monday night. Nominations for class office were opened for the same period. All nominations should be submitted in writing to Fred Lamb in Ruddock.

A WOMAN IS A WOMAN FOR ONLY TWO BITS AT THE ESQUIRE

The **Lovers of Paris** included for free! (Deprived undergrads only) **CHRISTIAN FELLOWSHIP MEETS** Dr. Bill Iwan, Assist. Prof. of Applied Mech. will speak on "An Ethic of Love", Friday noon, Chandler.

SOCCER SCORES SUCCESSIVELY

There will be a meeting of all men (undergrads and grads) interested in playing soccer in 1965 today at 4:30 in the gym. The 1965 schedule will be announced then.

THE HOT RIVET ARE COMING

Hey you. You see something wrong with Tech? Do something about it. Write right now for the **Hot Rivet**. Take out your frustrations in scathing satire. Only the best will be published, so do a good job and bring it by the **Tech office**.

Editorials

Paint The Old Houses

It is high time that the Institute did something to polish up the old Student Houses. During rainstorms leaky, clogged gutters deluge the students and courtyards with cascades of frothing water. Let's have a few drains cleaned, pipes unplugged, and gutters patched.

Furthermore, fissures, cracks, gouges and gashes abound in the old House walls. These could be eliminated, or at least made to look smaller.

Finally, the exterior finish of the Houses, courtyards and walls facing California and Hill Streets show vividly the marks of smog, birds, dust, weather and undergraduates. In all these places the light exterior plaster coat is badly chipped and discolored.

There are several ways to meet this problem. First, do nothing. Maybe in a century or two the finish will be so venerable, so gloriously unique, that no one, including the birds, will dare touch it. Second, the job could be done right, the exterior plaster removed by sandblasting, and a new outer coat put on. Or third, a program of regular repainting could be begun, instead of the present system of replastering every 30 or so years.

If Caltech can have the most Nobel Laureates, the tallest building in Pasadena, the most modern computing system, and the largest telescope, why can't it keep up its undergraduate residences?

—Tim Hendrickson
Norton Greenfield
Bob Berry



BY WALLY OLIVER

A commendable production of Rogers and Hammerstein's **The King and I** is currently at the Music Center as the first musical of the Civic Light Opera season. The stars are Florence Henderson as Anna and Ricardo Montalban as the King.

The plot is derived from a novel, **Anna and the King of Siam**, telling the experiences of a prim English woman who has been hired as a teacher to the many children of the King of Siam.

Of course, in a musical the songs are more important than the plot in determining a hit. **The**

King and I has such impressive tunes as "I Whistle a Happy Tune," "Hello Young Lovers," "Getting to Know You," and "Shall We Dance." If you don't like musicals, at least you can listen to the songs. If you don't like either the songs or musicals, forget the rest of the article.

Forget It

Having seen the movie and another stage production of **The King and I**, this version impressed me as being first rate. The two leads, Montalban and Miss Henderson, seem to work well together in creating the proper relationship between the King and Anna. The connection between these characters is not the standard love interest, but a feeling of mutual respect and wonder.

Lee Venora and Frank Porretta, who play the doomed lovers, Tuptim and Lun Tha, are especially suited for the parts because of their excellent singing. In this brief tragic subplot they sing "We Kiss in a Shadow" and "I Have Dreamed." Jean Sanders, who plays the King's head wife, Lady Thiang, does a fine job with her mezzo-soprano voice, although at times she sounds as if she were singing grand opera rather than light opera.

Uncle Who?

If you appreciate ballets, and I don't, you will probably enjoy the ballet scene, "The Small House of Uncle Thomas," which portrays in oriental mannerisms and costumes the story of **Uncle Tom's Cabin**.

This production runs until June 6, but unfortunately, tickets are selling fast and most are available in singles only. So better get your tickets fast, because this is a good opportunity to see a good musical performed well and a good excuse to use Dr. Huttenback's offer of paying for your ticket.

Scrippsies Kiss 'n Tell

BY MEOW

"Well," said Dave Bylund, the frosh in charge of the YMCA Frosh Diner's Forum, "they made it." "They" were the four Scripps girls in Chandler Hall last Friday at 6 p.m., come to lecture our horny frosh on "The Problems of Dating Caltech Men." Karen Baucus, a senior, was accompanied to the forum by Niles Puckett, and Linda Harker, a sophomore, announced that she was engaged to a Caltech boy. Susan Dinkle, a sophomore whose dates have all flunked or transferred, and Tina Schultz, a strikingly beautiful and articulate frosh, rounded out the highly qualified panel.

Do We Offend?

Miss Dinkle, after fielding a query about Teckers' breath, explained that she had been warned that all Caltech students were four feet high with two-inch-thick glasses. We also reputedly are all clothed in Beethoven sweatshirts. But, she continued, our exchanges are where the worst failing comes: she has been to exchanges where a group of boys stays on one side of the room for 1½ hours gawking awkwardly at the girls on the other side of the dance floor. Miss Dinkle emphasized the exchange once again later on, asking that Teckers remember to give the girl some gracious excuse when he drops her to move on. She recommended that we reform our conversational habits, too.

Pant, Pant

Tina Schultz, who liked Caltech exchanges at first, was completely turned off when someone suggested to see the steam tunnels, which she described as frightening. She reminded the long-horned frosh, "we like to feel that you're interested in us for other reasons than our sex. We don't like an animal, we'd like someone who knows how to be himself." Near the end of the discussion, she encouraged the shy ones with, "Don't feel that all Scrippsies are real frequent daters; they might have gone out very rarely in high school and not very much in college — they might be just like you!"

(Continued on page 6)

Brackett, Liao Best Artists

A still-life by George Brackett and a photograph of a boat on a pond in Hong Kong by York Liao have won \$25 each in this year's YMCA-sponsored student art exhibit now on display in Winnett Lounge. One prize was offered in painting and drawing and one in photography.

Mr. Frode Dann, formerly director of the Pasadena School of Fine Arts, and Mr. Tom Harvey, portrait photographer, acted as judges for the exhibit. Both judges commented that many entries in the exhibit showed students' talent but revealed that they had little knowledge of good form.

And would Dr. D. S. Clark please pick up his exhibit from the lounge.

Of all the non-academic awards given at commencement each year, the most important one is probably the least known. This is the Frederik W. Hinrichs, Jr., Memorial Award, usually referred to simply as the Hinrichs Award. It is "Awarded to the senior who in the opinion of the undergraduate deans, has throughout his years at the Institute made the greatest contributions to the welfare of the student body and whose qualities of leadership, character and responsibility have been outstanding."

Colonel Frederik W. Hinrichs, Jr., was Dean of Upper Classmen, a post which no longer exists at the Institute. He was descendant of a long and distinguished military family. Col. Hinrichs himself graduated from West Point and went on to become a Lt. Colonel in the Army Ordinance Corps before coming to Caltech. He was a very active and highly respected faculty member, and after his death in 1944 the Hinrichs Memorial Award was established in his memory.

The award winner in each senior class is determined late in each year by the three Undergraduate Deans, and their decision is kept secret up until the minute that the award is presented at commencement by Dr. DuBridge. The award itself consists of a certificate, a cash grant of \$100, and an engraved desk set. It is not necessarily awarded every year, but only during those years when the Deans feel that there is one outstanding and qualified individual in the class.

The Hinrichs Award was first given in 1948 to Bill Mulberger. It has been awarded every year since except for 1954 and 1963. In 1952 the award was judged a tie and was granted jointly to David Hanna and Richard Karasawa. According to Dean Eaton, the non-granting of the Award in a given year does not indicate any inferiority in a class, but merely denotes a lack of a single outstanding individual.

Surprisingly enough, the award winners are not dominated by ASCIT Presidents, as only three have won. The office most common to award winner's is that of Vice-President, and only one former California Tech editor (Tom Tisch in 1961) has won the award. Many have held no single important office, but have been behind-the-scenes "driving

forces" on campus. The single trait most common to Hinrichs award winners is extremely active participation in athletics. Although this is in no way a requirement for the award, almost every past winner has participated.

(Continued on page 6)

FLICK GUIDE

ACADEMY 1003 E. Colorado Admission: \$1.49 w/Fox student card.* Friday and Saturday: It's a Mad etc. World — 12:45, 3:45, 6:45, 9:45.	796-3191
COLORADO 2586 E. Colorado Admission: \$1.25 for students. Harlow (Carol Lynley) and Sweet Bird of Youth. No schedule available before press time.	796-9704
CROWN 129 N. Raymond Admission: \$1.25 w/Statewide student card, \$1.49 without. Friday: The Truth About Spring — 12:15, 4:41, 9:07. Cheyenne Autumn — 2:02, 6:28, 10:54.	796-3131
ESQUIRE 2670 E. Colorado Admission: \$.25 for Techmen, \$1.50 for other students. Friday: The Lovers of Paris — 7:00, 10:25. A Woman Is A Woman — 8:55. Saturday: Woman — 1:30, 4:55, 8:25, 12:00. Lovers — 2:55, 6:20, 9:50.	793-6149
STATE 770 E. Colorado Admission: \$1.49 w/Fox student card.* Friday: Mary Poppins — 2:00, 4:30, 7:00, 9:30. Saturday: Mary Poppins — 12:00, 2:30, 5:00, 7:30, 10:00.	792-7139
UNITED ARTISTS 606 E. Colorado Admission: \$1.25 w Fox, Statewide, or Uptown student card. Friday and Saturday: Synanon — 1:10, 5:45, 10:20. Elmer Gantry — 3:03, 7:38.	681-6577
UPTOWN 2316 E. Colorado Admission: \$1.00 w/Uptown student card. Friday: Strange Bedfellows — 7:00, 10:05. The Rounders — 8:45. Saturday: Strange — 1:15, 4:25, 7:40, 10:50. Rounders — 3:00, 6:10, 9:25.	793-4330

*If you are bereft of a Fox student card, one can be bought, included in an admission price of \$1.75. Good for six months.

**An Uptown student card can be purchased under the following plan — first night: admission plus card, \$2.00; second night: admission, free; following nights: admission, \$1.00.

Conger Prize Contest Open

The 54th Annual Conger Peace Oration Contest will be held in Winnett Lounge at 11 a.m. Wednesday, May 26. An award of \$50 will be given to the first place winner for the best oration on the topic of world peace or industrial peace. Second prize will be \$25.

The Conger Peace Prize was established through the generosity of the Reverend Everett L. Conger for the promotion of interest in world and industrial peace and of excellence in public speaking. It has been an annual event at Caltech since 1912.

Any regularly enrolled undergraduate who has not previously won the contest is eligible to compete. Manuscripts must be in the hands of Herb Booth, director of forensics, in 309 Dabney, not later than Thursday, May 20.

General rules are: (1) The oration must be the original work of the contestant. (2) It must be read from a manuscript and must require no more than seven minutes for delivery. (3) Each contestant is allowed a maximum of one hour's assistance and advice from any one faculty member. (4) The oration should analyze some phase of the problem of world or industrial peace and should propose a solution.

Last year's winner was Gary Scott, and Tom Latham took second prize.

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Phantom Thief Behind Bars At Last

BY MIKE MEO

Richard Robertson, who posed as a Caltech grad student for almost a year, has been arrested and is awaiting trial in the Pasadena jail. He is charged with stealing a bicycle and procuring, under false names, two nights' lodgings at the Imperial 400 Motel. While he is held under \$1000 bail, the Physical Plant's Security Officer Lt. Newton breathed a sigh of relief last week. "Hooray! He's caught!" he exulted when questioned. "And special thanks to Dr. Stanford and the Caltech boys on their daily three-shift detail." The notorious Robertson had been at large for several months prior to his ap-

prehension two weeks ago, and peregrinations about the Caltech had caused the Security detail as well as the Winnett office more than a few anxious hours.

It is impossible to determine Robertson's exact position and momentum at every time in his campus; perhaps a lot of things have been blamed on him that he is not really responsible for. This is a catalogue of confirmed reports gleaned from usually well-informed sources at Physical Plant and Winnett Student Center.

A Richard Robertson was first suspected of dirty dealing in May of last year when the Synchrotron called Physical Plant to re-

port that a man had been posing as a member of the Synch staff to the landladies of the neighborhood, but he had never worked there. He had skipped paying rent a number of times, and the landlords, when they called and found that he was not a Caltech employee, gave the receptionist at the Synchrotron a piece of their minds. He was noticed in Winnett Lounge pretty regularly at this time; he even wore a lab coat and carried around a notebook with his name on it.

Kim Gleason's bike was stolen about this time last year, and when it was found there were some papers in it. According to Al Heine, of B&G Security, "The letters showed we had a real nut on our hands." He had written a letter on stationery with a forged letterhead to his parents, in which he said he was in charge of a big scientific expedition to India. Later, the Pasadena Public Library, when a book checked out under Thomas A. Halgren of Keck House was returned by the Winnett Office, complained that Mr. Halgren had been very delinquent in returning his books. Halgren replied that he'd never taken

out any PPL books, had lost his wallet and identification several weeks before, and didn't know what they were talking about. The library card listed Dr. Gell-Mann as a reference, and gave his address as the Synchrotron, so it was suspected that Robertson had picked up the wallet. When arrested, he had it with him.

He Makes the Fatal Slip

B&G got the address of Robertson's girlfriend from the return address of a letter she sent to him at Caltech, and when they spoke to her she gave them a picture of him and some information which proved helpful. The picture was turned over to the police, and a couple of weeks later the culprit was picked up. Meanwhile, however, he showed up sleeping on a couch in the Student Center Lounge on Graduation Day. When Mr. Heine came over and spoke with him, he was very personable and promised to come back in a week to explain his suspicious activities. He never showed up.

The Pasadena police picked him up shortly after this, and among his possessions at the time were Halgren's wallet, a fake diploma

from Caltech, and several books taken out in Halgren's name from various Pasadena Libraries as well as Dabney Humanities Library. He got a 6-month sentence, the first three weeks to be spent in the LA County jail, and stern warnings from Caltech authorities never to darken any CIT doorstep again.

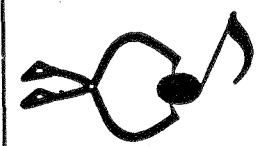
What? Again?

The day before New Year, 1964, he was sitting on the sofa in the Student Lounge. On March 22, one Miss Henderson, who rents apartments to a lot of Caltech men, called to check on him, and, after she had told him to leave, found mail for a professor in Thomas in his room. Two days later some registered mail for a Hwang Lee was called for by a Harvey Piedman, who answered Robertson's description but who claimed to be a grad student in engineering. When they called to check on him, Mr. Piedman vanished.

On the 29th of March, Mr. Robert Woodbury, while looking through the old book department of Broughton's Book Store, found a couple of books that were from his library, and that he had never sold. The management, when he questioned them, told him that the owner, Bob Woodbury, had sold the books to them! Richard Robertson, or someone with his description, had posed as Woodbury and sold Woodbury's books to Broughton's after stealing them. He was so personable he had been hired as a part-time book clerk.

Chomp!

Fleming House, too, felt the bite of the campus pack rat. Larry Newcomb lost \$20 the same day that a strange man answering Robertson's description was seen walking out of his room when he wasn't there. It's pretty safe to say that R. R. done the deed, but there's no proof. The police picked him up again, this time in Van De Kamp's Restaurant. He'll probably serve a longer sentence than before, and be more reluctant to try more impersonation, but if you see a dark-haired man, about five foot-eleven, brown-eyed and very personable, tell him to leave!



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AFROTC Plays At War

BY ROUSAKAWA

With the unsteady situation of the international world in mind, Caltech's Detachment 65 of the AFROTC prepared for possible armed conflict Saturday in their annual field exercise. The exercise, which took place at the Horse Flats area in the Angeles Crest National Forest, demonstrated once again the power and might of the American fighting man and his modern equipment.

Geneva Rules?

The purpose of the exercise was relatively simple. Each Flight was to spend the morning building target areas, and then in the afternoon, each Flight was to destroy as many enemy targets as possible while defending his own

from the other Flight. Targets were assigned priorities ranging from one (high) to six. The attacking teams used the destructive three-man slingshot, which lobbed bags of flour anywhere up to 50 feet. A hit on any target destroyed the target completely. However, the defenders could kill the attacking troops by sighting the numbers on their chests and backs and calling these numbers out. Unfortunately the range of this system was much greater than 50 feet.

No, Goren's

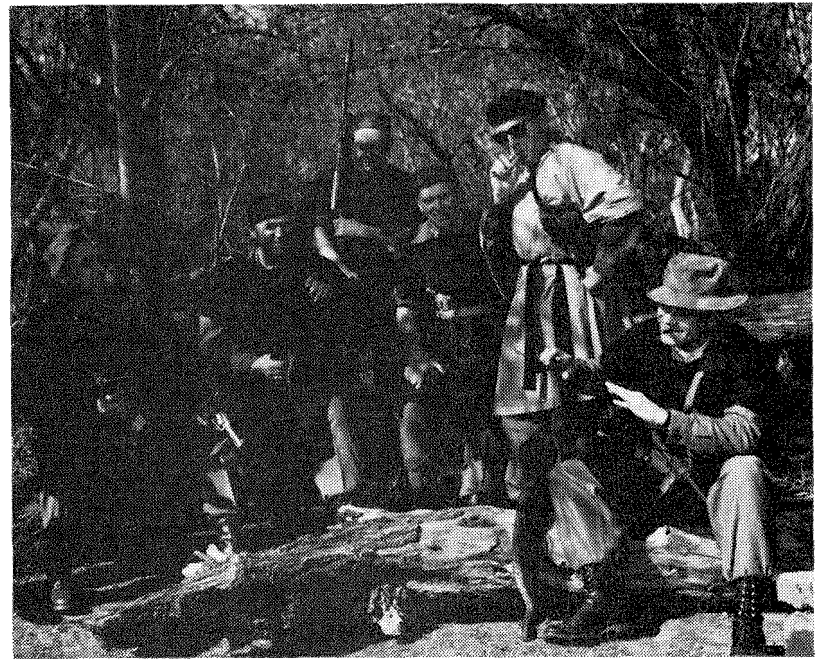
A Flight demonstrated their savoir faire immediately by completing the morning exercises on schedule, finding McClure and Williams, who did not think

themselves lost, and starting their afternoon attack on time. B Flight was to attack two hours later. The A Flight attack team managed to slip through the B Flight defenses, destroying a priority three target without opposition. Unfortunately, the defense around B Flight headquarters was not so loose. There were two sharp battles here, and the gallant A Flight attack was wiped out.

The B Flight attack arrived late in the afternoon and thus surprised the lone defender of the priority six target they attacked. However, having used their time up on this low priority target, they had no chance to make any further movements before the exercise ended.

War is Hell

At about the same time, A flight's Len Erickson was covering himself with glory in a single-handed attack against the B Flight lookout. His oblivious attitude towards the fact that he could not destroy the enemy alone should serve as an inspiration to all



—USMC

ROTC's A Flight watches as its commander, George Williams, demonstrates the low-yield Bowie Knife. Note B Flight spy Vince Johns, in light tunic.

High IQ Houseflies Tested For Vision

Dr. Gilbert McCann, director of Caltech's Booth Computing Center, has disclosed that houseflies make better clock-watchers than people do. In research supported by the US Public Health Service, flies were discovered to be able to observe much slower pattern movements than people, such as the hourly movement of the hands of a clock. With the aid of a large computer and a device known as a "fly planetarium," McCann has developed a way to look at the world through the eyes of a fly.

Research Divided

McCann's research sheds much light on basic theories of insect vision, and has led to a number of revisions of earlier-held views. The new knowledge about the fly's seeing ability is a dividend of the long-range research objectives of the Caltech Biological Systems Laboratory.

These objectives are to learn more about how light received by the eye is translated into consciousness and action, and to provide information that may be used in developing such devices as electronic eyes that can read numerals or letters.

Another interesting fact that may prove of practical advan-

tage next time a fly proves a nuisance is McCann's discovery that the smallest pattern recognizable by a fly are stripes of alternating black and white about the width of a pencil at a distance of one foot.

Beware Black Flag

During experiments flies "flew" for hours while attached to a torque-meter. The meter sensitively recorded their efforts to follow such targets as black and white line patterns that were rotated around them. The patterns, of various widths and complexities, were rotated at various speeds and were projected at various light intensities.

Beeswax was used to attach a bit of cardboard punched out of an IBM card to the head and thorax of the victim fly. The flies wore their ID cards for life—about 30 days—and seemed unaffected by their presence. The cards were numbered and colored, serving not only as identification for each fly but also as a handle to clip the fly to the torque-meter. A fantastic surrounding environment was created to give the fly peace of mind and no distraction while he was busy watching his patterns.

(Continued on page 6)

Americans. Unfortunately he was killed.

While B Flight had fewer casualties, the daring A Flight attack destroyed a higher priority target than their cautious opponents. The actual results have not yet come out, but the survivors of A

Flight are certain that the brave sacrifice of their men will not go unrewarded. And thus ends another thrilling episode of Superotc — more powerful than a musk ox, faster than a speeding Hugh Hefner, and able to leap tall mountains in a single day.

By solving problems in astronautics, Air Force scientists expand man's knowledge of the universe. Lt. Howard McKinley, M.A., tells about research careers on the Aerospace Team.

(Lt. McKinley holds degrees in electronics and electrical engineering from the Georgia Institute of Technology and the Armed Forces Institute of Technology. He received the 1963 Air Force Research & Development Award for his work with inertial guidance components. Here he answers some frequently-asked questions about the place of college-trained men and women in the U.S. Air Force.)

Is Air Force research really advanced, compared to what others are doing? It certainly is. As a matter of fact, much of the work being done right now in universities and industry had its beginnings in Air Force research and development projects. After all, when you're involved in the development of guidance systems for space vehicles—a current Air Force project in America's space program—you're working on the frontiers of knowledge.

What areas do Air Force scientists get involved in? Practically any you can name. Of course the principal aim of Air Force research is to expand our aerospace capability. But in carrying out this general purpose, individual projects explore an extremely wide range of topics. "Side effects" of Air Force research are often as important, scientifically, as the main thrust.

How important is the work a recent graduate can expect to do? It's just as important and exciting as his own knowledge and skill can make it. From my own experience, I can say that right from the start I was doing vital, absorbing research. That's one of the things that's so good about an Air Force career—it gives young people the chance to do meaningful work in the areas that really interest them.

What non-scientific jobs does the Air Force offer? Of course the Air Force has a continuing need for rated officers—pilots and navigators. There are also

many varied and challenging administrative-managerial positions. Remember, the Air Force is a vast and complex organization. It takes a great many different kinds of people to keep it running. But there are two uniform criteria: you've got to be intelligent, and you've got to be willing to work hard.

What sort of future do I have in the Air Force? Just as big as you want to make it. In the Air Force, talent has a way of coming to the top. It has to be that way, if we're going to have the best people in the right places, keeping America strong and free.

What's the best way to start an Air Force career? An excellent way—the way I started—is through Air Force Officer Training School. OTS is a three-month course, given at Lackland Air Force Base, near San Antonio, Texas, that's open to both men and women. You can apply when you're within 210 days of graduation, or after you've received your degree.

How long will I be committed to serve? Four years from the time you graduate from OTS and receive your commission. If you go on to pilot or navigator training, the four years starts when you're awarded your wings.

Are there other ways to become an Air Force officer? There's Air Force ROTC, active at many colleges and universities, and the Air Force Academy, where admission is by examination and Congressional appointment. If you'd like more information on any Air Force program, you can get it from the Professor of Aerospace Studies (if there's one on your campus) or from an Air Force recruiter.

United States Air Force

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SPORTS

PCIYRA? Ruddock Repels Blacker Challenge

The five hardy members of the Caltech Sailing Team awoke at 5 a.m. last Saturday to participate in the Pacific Coast Intercollegiate Yacht Racing Association eliminations for the National Championships, held at Mission Bay last Saturday and Sunday.

The Sleepy Win

Despite an almost total lack of sleep, the team sailed rather well, especially the first day. Don Radcliffe and Jim Brooks tied for third (out of nine boats) in the first "A" race and Randy Cook and Dee Payne followed up with a fourth in the first "B" race. Radcliffe and Brooks then amazed everyone, including themselves, by finishing first in the second "A" race.

Inspired by their example, Cook and Dave Hammond (who replaced Payne because he is 60 pounds lighter) led all the way to take another first. Radcliffe and Brooks continued their winning streak by taking a second, but Cook and Hammond punted themselves down to fifth. At the completion of the day's racing Tech was in fourth place, one point out of third.

At the dinner-dance held Saturday night the team was so exhausted that they just sat and ate spaghetti for an hour and a half. The team went to bed at 9:30, and when they started out bright and early Sunday morning they had gotten more sleep than on the three previous nights combined. Being awake they realized the awkwardness of their high place, tensed up, and sailed rather poorly.

Awake

In the first race Radcliffe and Brooks came in seventh (a euphemism for last, since two schools dropped out in frustration) and then took sixth in the next three races. Radcliffe put some real excitement into the seventh race as he came from the back of the pack into second place near the finish line only to foul the lead boat and be disqualified.

When the scores were added up at the end of the day, Tech came in fifth and San Diego and Long Beach State Colleges had won the right to represent the Pacific coast at the championships in Detroit. The Beaver's

Blacker and Ruddock postponed their Discobolus table tennis match until Monday afternoon, but the wait was well worth the show put on by the participants. Ruddock won the final two matches to defeat Blacker 3-2 at Winnett Student Center.

Zame of Blacker started things off by beating Pressing in two straight games. Both games were fairly close but Zame had matters well under control with his fine forehand overspin shots.

Nakamoto then took on Tyler of Blacker at second singles. The Ruddock senior won the first game and was leading the second game 17-13 when Tyler got hot and tied the game, and eventually won, 23-21.

The situation was reversed in the deciding game as Nakamoto trailed 19-14 and 20-16. He claimed that he was just trying to add some excitement to the match by falling so far behind. A few tense minutes later, he won the game and the second singles match.

Greenfield of Ruddock was not up to his usual game and fell to Pitcher in two very uninspiring games. So after three matches Blacker led 2-1 and needed only one more match to claim victory.

The fourth singles match was close for the first half of the first game, but then Lee, a Ruddock frosh, completely demoralized his opponent with good defense, ran up a big lead in the second game, and won in two games.

The doubles match was similar to the fourth singles match. Blumsack and Bornzin of Ruddock won the deciding match by being able to return their opponents' shots from all over the Winnett game-room.

Blacker trailed by three to six points throughout most of the first game, and lost 21-16; they led 4-1 at the outset of the second, before the Ruddock team proceeded to take 20 out of the final 28 points to win in a runaway.

Dabney has challenged in billiards and pool, handball, and basketball.

next regatta is the Pacific Coast Championships, held at Newport Harbor May 22 and 23.

Anderson, Frosh Shine In SCIAC Swim Meet

Last Friday Caltech played host for the SCIAC swimming finals. This meet serves no purpose to determine conference standings but allows one to set records and finish the season well.

New Records

Oxy got off to a fine start by winning the medley relay by barely beating Redlands with a record time of 44:01.1. Bruce Parker of Redlands set meet records in the 200 yd. individual medley of 2:11.6 and the 500 yd. freestyle of 5:21.9. Other conference records were set by Walt Rohlfing of Oxy in the 200 yd. butterfly of 2:07.5. The freestyle relay was won by Oxy in the record time of 3:29.3.

Anderson Wins

Swimming for Caltech, Larry Anderson won both the 50 and the 100 yd. freestyle while Rick Touton placed fourth in the 50 yd. race. Dan Erickson placed seventh in the 200 yd. freestyle. Ted Jenkins took fifth places in both the 200 and 500 yd. freestyle, and Rich Nielsen got a sixth place finish in the 200 yd. backstroke. Pat Miller swam well and placed third in the 200 yd. breast stroke. Pete Ryan placed sixth in the 500 yd. free.

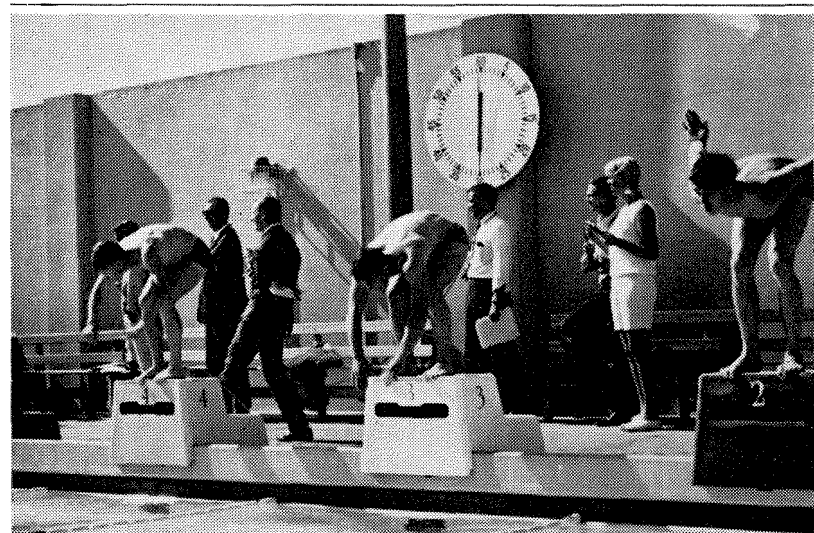
Frosh Excell

There were also some excellent performance by the Caltech freshmen. Rob Cerritsen swam two fine races to take second in the 200 yd. free and win the 500 yd. free in a well paced race to give him a frosh school record of 5:45.6. Henry Dewitt had a close race to win the 200 yd. individual medley for a new conference record of 2:16.0. After attending only one workout this term Jon Haviland took third in the 200 yd. butterfly and set a frosh record of 2:34.3 in the process. Most satisfying was the winning performance of the 400 yd. freestyle relay team of Dimotakis, Haviland, Cerritsen, and DeWitt in the time of 3:48.3. Jim Woodhead placed fifth in the 200 yd. butterfly and fifth in the 200 yd. breast stroke. Norm Whitely got sixth place in the 100 yd. freestyle.

The freshmen and varsity diving took place last Thursday at Claremont where John Eyler placed third with 135.95 points and Rod Bergman took fourth

with 134.25 points. In the freshman contest Rufus Woody finished in second place with 83 points.

For most swimmers, their best performances were produced at this the final meet of the season. The picture looks bright for the team next year. Up from the freshman team will come a good backstroke, butterflyer, and a distance freestyle man which will fit in well with the deficiencies the team had this year and losses due to graduations. It was not a good year for Caltech team-wise, but next year will be better. Hope springs eternal.



—Kim Gleason

Rich Touton (lane 2) and Larry Anderson (lane 4) get ready to take off in the 50 yard freestyle race. Anderson won, Touton took fourth.

Baseballers' Cricketers Luck Rough Win First

Nearing the end of their season, the varsity baseball team traveled to Occidental last Saturday only to lose two very tough games. Chuck McQuillan pitched the first game and got good fielding support from the team, as they pulled off three double-plays. But the batting support was not as effective and the Beavers lost 6-2.

The second game was a real heartbreaker. Diebel pitched a beautiful game, giving up no earned runs in nine innings only to find the score tied 3-3. Then Occidental managed to push a run across in the bottom of the tenth to win the game.

The bright points of the games were McQuillan's homerun in Diebel's game and Tom Resney's total of five stolen bases for the day. He now has 16 steals in conference games without being caught once. Team hitting as a whole is not too impressive, except for Jerry Gowen's .355 average, which ranks very high in the SCIAC.

The Beaver's record was none too good this year, but with all but two lettermen returning next year and a promising crop coming up from the frosh, next year's team should be able to make a very good showing.

The Caltech Cricket Club, playing behind the strong bowling of Jerry Brady, defeated the Corinthians C. C. by three wickets in a home match last Sunday. This was the first victory of the season and was accomplished without the powerful batting of John Tri-shuk.

John Danziger and Paul Rispin were the other bowlers who so sparingly held the Corinthians to only 108 runs. Since the club was without the Huttenback, Brady bowled the entire match from one end while Danziger and Rispin split the chore from the other end. Brady's performance for the afternoon was only marred by some sloppy running while at bat later in the afternoon.

The Mothers' Day tea party was also celebrated with some better batting than had been shown in the club's previous home match. Outstanding at bat were Bob Pidgeon with 37 runs and Richard Wade with 26. Since Wade scored the winning run he retired without having been put out in order to let the tail end of the batting order have a chance at bat.

The club is waiting for word from its talent scout, Huttenback, who is searching Kashmir for new bowlers. The club goes on the road for next Sunday's match, but returns home the following weekend for another exciting contest. Come out and watch the match, and bring some cookies and join them for tea.

Trophy Standings

DISCOBOLUS

House	Won	Lost	Points
Fleming	7	3	24
Ruddock	5	2	17
Page	4	3	15
Blacker	3	4	13
Ricketts	3	3	12
Dabney	1	3	6
Lloyd	0	5	5

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From Other Campuses by Smutty

Glancing through the pages of the University of Baltimore's **Baloo**, we find a letter to the editor from one Mr. Joseph Scher. Complaining of recent events, Mr. Scher protests that: "It is a bad situation when a fraternity has to sell tickets to a college dance to teenagers . . . oversell by 300 couples . . . charge \$1.00 per couple to check coats . . . and other worthy activities such as juvenile drinking, fighting, near riotous behavior, and girls without morals." Yes, it is sad. Why doesn't anything like that ever happen here?

From the blackboard jungle of Virginia Poly, the **Virginia Tech** carries the news that Radford girls are forbidden under penalty of expulsion to enter a VPI frat house. Radford, it seems, has gotten itself into a dither over the high correlation between beer-drinking and sex. VPI has apparently known about this correlation for a long time and its male students are reacting violently to the idea of going "cold turkey," as the expression goes. However, as a **Tech** writer points out, a bottle of beer in a frat house is not nearly as challenging as a boy in the dark, dark woods (which are not yet off-limits). Besides the grass-stains are hell to clean.

Senior,

Two freshman coeds at the University of Michigan in East Lansing were informed that they would receive grades of "Incomplete" in ROTC-100. If it catches on here, Maj. Knight could triple enrollment with a little judicious advertising. How'd you like to go on a field exercise with a sweet little dark-haired airman? And I don't mean Rouse.

The South Dakota School of Mines and Technology's **Tech** carries the true story on South Dakota's Tenth Annual Western Science Fair. To Robert Rychly go the congratulations of the **Tech** for winning first place in the Senior Physical Sciences Division with his exhibit on "Stream Table Geology." South Dakota Tech presented Robert with a \$100 scholarship for his efforts. (Well, it's decent beer money anyway.) The paper goes on to explain, for the benefit of the cretinous, that a science fair is "a collection of exhibits, each of which is designed to show a biological, chemical, physical, or technical principle, a laboratory or other procedure, an industrial development, or an orderly collection of anything which can be fitted into the broad concept of any branch of pure or applied science." Sounds like Ge 1.

You Want To See

From the strife-torn campus of Rensselaer Poly comes word of a demonstration held down at the local Student Union on Viet Nam. It started when some ten students marched around carrying signs urging the withdrawal of American forces from Viet Nam. Says the paper, along came "several hundred wide-awake students revelling in the fact that it was a Friday afternoon," when "their equation-clogged minds were shocked at the sight of a real, live political demonstration here at RPI." Taking advantage of this atmosphere of action, large

quantities of marchers flocked to the scene espousing such futile and hopeless causes as "Let's neutralize Alaska," "We want good food," and (chuckle) "Let's Go, Mets."

In the **New Guard**, a magazine published by the Young Americans for Freedom, we find an editorial comment something like this: "Headlines from Selma bring to mind this saying of St. Augustine: 'He that is evil is a slave, though he be a King.'" Yeah, but you know which one gets to vote, don't you?

The Donkey . . . ?

Taking a strong stand against love, brotherly and otherwise, the Administration of Albany State College in Albany, New York, posted a sign in a student lounge reading "Displays of Personal Affection are Not Allowed." As reported in the **MIT Tech**, the administration took this action as a result of "much abuse" of the lounge. An unofficial spokesman for the administration commented that "Before we put up the sign, it became difficult to preserve any semblance of order in the lounge with reference to excessive display of affections and/or lust."

The signs may improve conditions in the lounge, but they're gonna play hell with the bushes. Come to think of it, we've noticed those lights burning late in the **Tech** office . . .

Being attracted as always to matters sexual, we note another goody in the same issue. The administration of Delta State College in Cleveland, Mississippi, recently removed student newspaper editor Jack Steele. It seemed the January 12 issue of Mr. Steele's rag carried a movie column headlined "Pussy Galore Typical of James Bond's Girls." With an attitude like that we're surprised that the administration even caught on to the joke.

Which brings us to this week's joke, lifted straight from the Rose Polytechnic Institute's **Rose Technic**: Slowly, her eyes glowing softly, the beautiful debutante raised a glass on high, exulting: "Port wine to me is the nectar of the gods, the elixir of life. When I imbibe its fluid, my soul begins to throb and glow. The music of a thousand muted violins whispers in my ear, and I am transferred to the make-believe world of magic. On the other hand, beer makes me barf."

Scrippsies

(Continued from page 2)

Linda Harker had to answer the question, why do girls come to Caltech exchanges? "We come here," she replied, "to meet interesting young men. It's your job to see that we're not disappointed." She pointed out that Scrippsies have lots of animal-type men around, but come to CIT to hear some interesting conversation, perhaps about philosophy or religion. She paid our interesting conversation the ultimate compliment: if she had a chance for a blind date with a CHM boy or a CIT boy, she'd take a chance on the Tecker.

Blush!

Karen Baucus, sort of the elder stateswoman of the panel, tried to fill in the gaps in the program with small talk. She acknowledged that Caltech students have no girls on campus, and that this contributes to their being a little bit on the panic side whenever they meet a girl, but she insisted that we didn't have to turn white or red just because we're within ten feet of a female. She pointed out Scripps is not all "arts and crafts," that forty percent of its curriculum was humanities for three years. And her advice on handing a girl a line is: "If you care enough about her to give her a line, you should at least be original."

Hinrichs

(Continued from page 2)

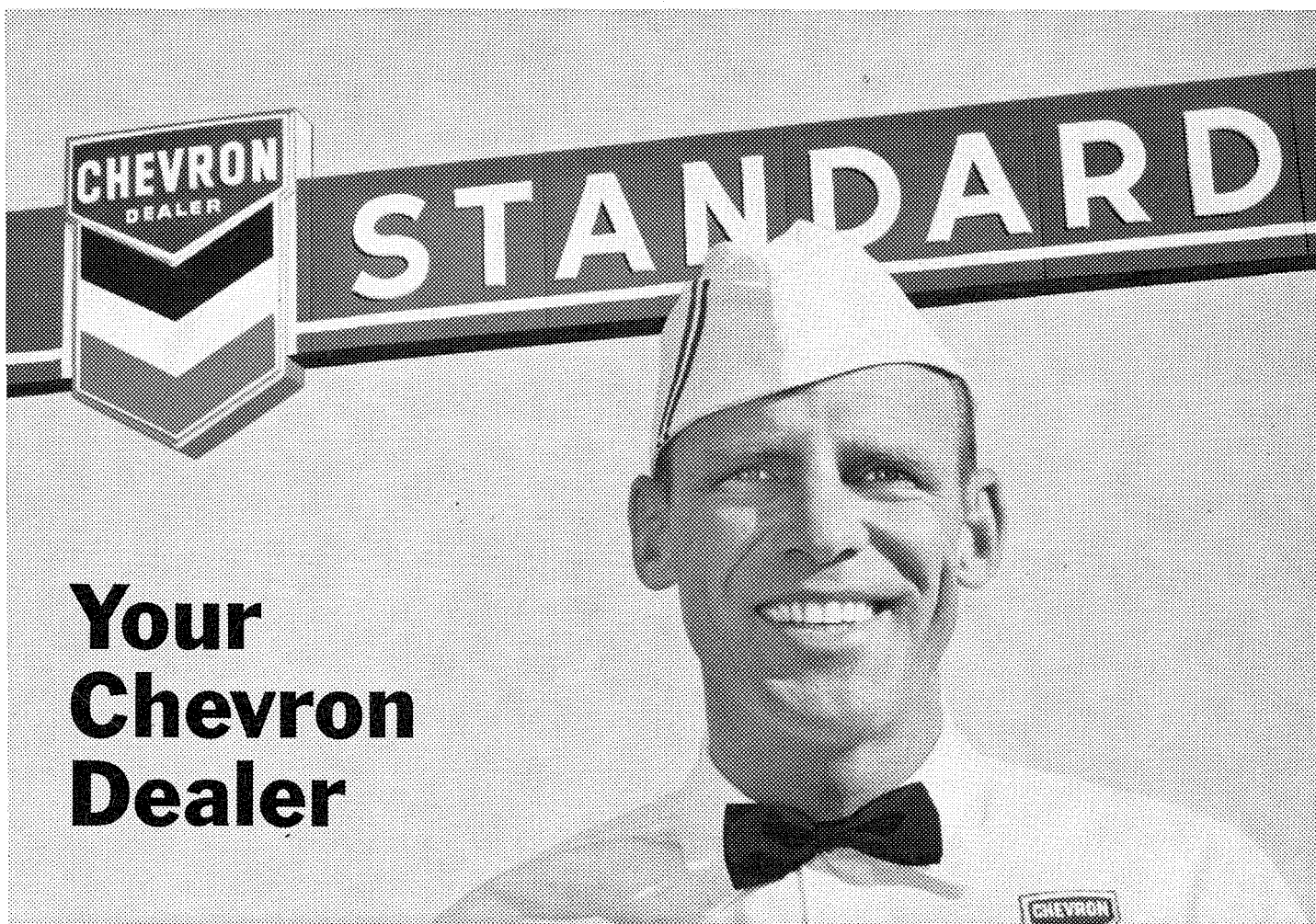
ated actively on one or more varsity teams.

The two most recent winners of the award are Dean Gerber (1962) who was ASCIT Vice-President and played varsity basketball and track, and Bob Lieberman (1964) who was ASCIT President and played varsity football and baseball. Among the former award winners are two present faculty members, Dick Van Kirk (1958) who is now Assistant Director of Development and one of the football coaches, and Leroy Hood (1960) who is now doing post-doctorate work here in biology.

The Fly

(Continued from page 4)

The work is now being extended by introducing microscopic probes into the optic nerve cells of the fly and recording the nerve impulses that are stimulated by moving a pattern past him. With probes at different points along the fly's optic nerve fibers, McCann explained, it will be possible to detect changes in the nerve signal patterns. This will indicate that a primitive brain (a group of nerve cells called a ganglion) has received an impulse and has altered it before passing it on to the next.



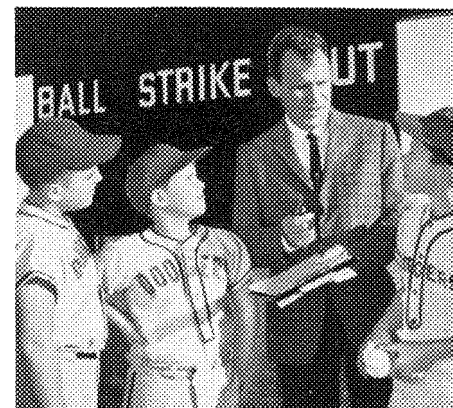
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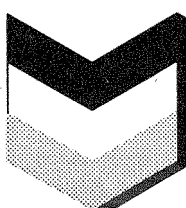
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