

Students:
Just poke anything you see.

California Tech

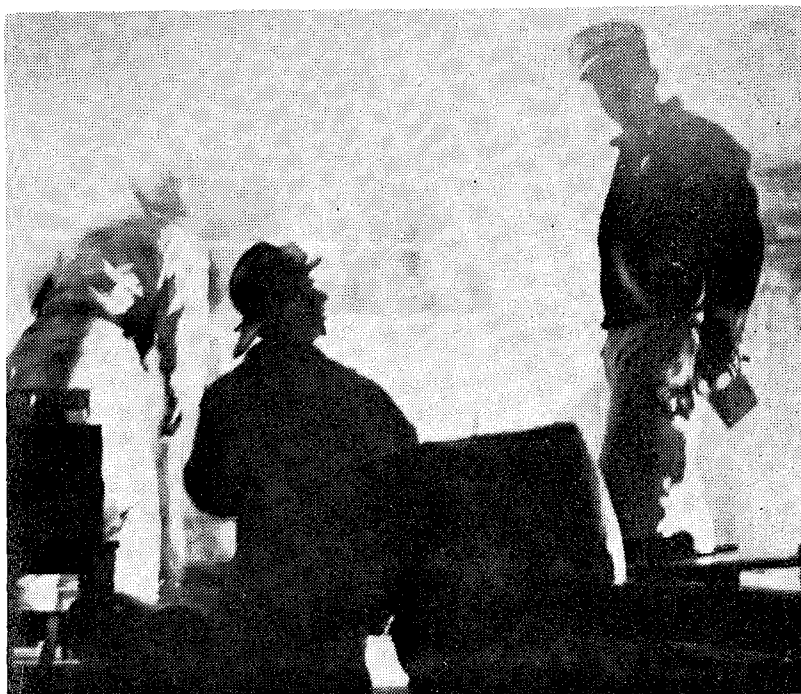
Associated Students of the California Institute of Technology

If it bites, it's a grad student.

Volume LXVII.

Pasadena, California, Thursday, December 2, 1965

Number 10



—Davey

Brave firemen chop through Ricketts lounge floor as fire rages below.

Campus Power Cut

Two - Alarm Fire Under Ricketts Forces Evacuation

by Meo

"We got within thirty yards of it, but the smoke was too thick to get any closer. When the firemen arrived we showed them the way through the bicycle room to the steam tunnels to the fire. You could see it best from the steam tunnels." So spoke Mike Brennan of Blacker House concerning his discovery at 3 a.m. last Friday morning of the Great Ricketts Fire, which involved 22 units from the fire departments of four neighboring cities. The damage was minor, most of it smoke damage, since the fire was confined to one room.

C. W. Easley, Director of the Safety Office, said the fire was evidently started by hot embers from the Ricketts fireplace. The trap door underneath the hearth was open, as well as the one at the bottom of the pit. Wires were found running up the chimney, perhaps for the Interhouse Dance. Once a fire started in the storeroom, the heat apparently melted the conduit for the 2300 volt feeder line, which automatically threw the circuit breaker for the campus electricity. The power for the Grad Houses was turned on about an hour later, when the fire was under control, followed

shortly by the electricity down-campus and in the New Houses. The Old Houses remained Stygian.

Power shut off

Friday night, while smoke was still being pumped out of the steam tunnels, all the electricity was turned off to hasten repairs. At 7 a.m. Saturday the power for the entire campus was restored, and minor details were ironed out over the weekend. Not much of value was destroyed in the storeroom, but the fire offers an opportunity to replace the old wooden shelves with nonflammable metal ones.

What in blazes? . . .

How the fire was recognized and reported is a colorful story. Mick Mortell, the Resident Associate of Blacker, got back to his House lounge late Thursday night because he had to escort home his friend John D. Gullivan. When he got to the lounge, Mortell, a doughty Irishman who is one of the best hurley players in the country, smelled smoke. He told the lounge rats who were sitting around that something was wrong. Rich Drews, Mike Brennan, and "a little guy with glasses" led Mortell over to the Ricketts lounge where an enormous amount of

smoke was pouring out of the walls. Brennan went adventuring thereafter, and almost didn't return from one intoxicating venture, but Mortell phoned first the fire department, then Building and Grounds. "I called the first three names on the list in the phone directory," relates the intrepid RA, "but none of them answered. I wonder where they were at 3:30 in the morning." Finally Mortell got through to R. C. Poolman, Assistant Director of Planning and Engineering. Poolman spread the word to B&G from then on, because just as Mortell finished the call the phone went dead.

Del dot smoke gives . . .

In Ricketts House Gary Jaeger, Howard Hoffman, Martin Oiyee, and a couple of other trolls were, according to Jaeger, "sitting around BS-ing up in Crud Alley 'til about 3:30." At 3:15 Hoffman smelled smoke. But nothing further was thought of it until 3:30, when the group broke up and "started moving in the direction of increasing smoke gradient." Seeing all the smoke pouring through the panels of the lounge, the group went down to the steam tunnels and saw the fire. Some started to break down the door to the storeroom; some went back upstairs to evacuate those still sleeping in Ricketts and Blacker. The fire department arrived at about 3:40 and efficiently began to put out the flames.

Blacker blacker

Curtains, sheets, and clothes were severely blackened by smoke in both Ricketts and Blacker, but they will be cleaned at Institute expense, thanks to the insurance policy. A few panels in the Ricketts Lounge were ripped out, but those will soon be replaced. According to L. Terry Suber, Services and Operations Officer of Physical Plant, the damage will total between 25 and 75 thousand dollars. Since the fire came during a vacation, the sleep lost by the evacuees was not missed very much, and the excitement livened up an otherwise dull weekend.

CIT to Host 1200 High School Students and Faculty Saturday

by John McCord

Over 1000 students and 200 faculty members from nearby high schools will invade Caltech this Saturday for the sixteenth annual Students' Day. On no other occasion is the red carpet rolled out to so many Institute guests.

Gaining scientific insight

Dr. Richard M. Sutton, Director of Relations with Secondary Schools and the man in charge of organizing Students' Day, stressed that the day is not intended to recruit prospective Techmen. At the very most only a fifth of those attending could ever come to Caltech. (A good number of the high school students will be girls who, unfortunately, stand no chance of ever getting in.) Instead, it is hoped that the high scholars will gain some enlightenment in the mysterious ways of the scientist.

Morning tours

In the morning the students will be divided into small groups which will spend 25 minutes at each of 6 of the 60 exhibits on display. When the tours are finished the high school students will be the guests of the seven undergraduate Houses for lunch. After lunch, before the afternoon lectures, they will hear the Glee Club sing in Beckman.

Back at the Athenaeum the visiting faculty members will

luncheon and hear Dr. R. W. Paul speak about "The Humanities at Caltech."

In the afternoon all the guests will attend a series of lectures in Beckman. The lead lecturer will be Dr. Arnold O. Beckman, Chairman of the Board of Trustees, who will speak on "Careers, Opportunities, and Responsibilities." As a matter of interest this will be the first time that Beckman has made an address in his own auditorium.

Beckman lecturer

Next Dr. F. Brock Fuller, professor of mathematics, will answer the question "What is Topology?" Following a brief intermission TV star Dr. Robert B. Leighton, professor of physics, will give a presentation of "The Mariner IV TV Mission," showing and commenting on many of the Mariner mars pictures. Finally, Dr. Ray Owen of biology will speak on the "Frontiers of Modern Biology."

Students Day involves the participation of the whole Caltech community. Many members of the Institute faculty have devoted time toward setting up exhibits and giving lectures. Over 100 Techmen have volunteered to serve as guides and hosts. Heading the student guide committee are Sean Soloman, chairman; George Sharman, vice-chairman; and Kermit Kubitz, head guide.

Construction On Millikan Started

by Frank Ettin

No longer is the area between Bridge and Crellin the spot of pastoral beauty that it once was. Crews of workmen bearing bulldozers, trucks, and other heavy equipment scurry frantically about. No B&G gardening project, this is the beginning of the long-delayed, much-anticipated Millikan Library.

It's a bird, it's a . . .

Rearing nine stories above ground, the slim library will rest on the site of the old Eucalyptus grove. A large reflecting pond with fountains and a dividing footbridge will occupy the remainder of the cleared area in front of Throop. And the covered walkways between Sloan and Bridge and between Dabney and Gates will be extended to Arms and Kerchoff (the rain be damned!). It is expected that the library will be completed by March, 1967.

Bids for the Millikan Library were opened November 4. According to Dr. Rodman Paul, chairman of the faculty library committee, seven bids were submitted, ranging from \$2,200,000 to \$2,450,000. The contract of the lowest bidder was approved by the Board of Trustees on November 12, and the contractor was given notice to proceed on November 16.

Rain delays construction

Work was held up by the rain but things finally got under way on November 26. The first problems tackled by the contractor

have been the clearing of the site and the relocating of various underground utility lines.

The contract was awarded to the Turner Construction Company. The firm was described by Mr. Wesley Hertenstein, director of physical plant, as one of the three or four largest construction firms in the United States. The Turner Company bought out the local firm which built Church Laboratory, and now is also working on the Union Bank Square in Los Angeles.

Notices

FEYNMAN SPEAKS!

Nobel Laureate Dr. R. P. Feynman will speak to the Physics Research Conference today at 4:45 p.m. in Culbertson on "My experiences with Quantum Electrodynamics." Teckers are welcome.

JOB INTERVIEWING?

Students planning to have employment or placement interviews will want to attend a group discussion which will be held by Dr. D. S. Clark, Director of Placements, in 206 Dabney Hall next Wednesday at 7:15 p.m. concerning placement problems and interview procedures.

STAG FILMS

There will be screenings of two BBC films (really three, but you already missed one) featuring Caltech scientists, for faculty and students in Dabney Lounge as follows: Tuesday, Dec. 7, 4 p.m. "The Heart of the Matter"

(Dr. Richard Feynman)

Tuesday, Dec. 14, 4 p.m.

"Fred Hoyle's Universe" (Dr. Maarten Schmidt)

SLIDE RULES

A retired Navy officer and engineering type has given two old but very good slide rules to be given to "deserving" or "needy" students. They are both K&E, polyphase duplex, and have recently been checked by K&E and had new slides put on. If you would like one, see Tom Huff in the Y office.

ROAR, MOUSE, ROAR

"The Mouse that Roared" (in color) with Peter Sellers and "From Here to Eternity" (which won 7 Academy Awards) with Burt Lancaster, Deborah Kerr, Montgomery Clift, and Ernest Borgnine. The Culbertson Film Series show at 7:30 p.m. this Friday. Admission

(Continued on page 2)

(Continued on page 6)

CONTEST EXTENDED

TEN ten-dollar prizes are still available in the California Tech Princess Margaret picture contest. Final deadline for entries is 6 p.m., Sunday, December 5. If you have any reasonable photograph of the Princess at Caltech, submit it to the Tech; win some extra Christmas money!

Senior Takes Own Life

Frederick Insley Mayer, 20 year old Caltech senior and honor student, died of an apparently self-inflicted gunshot wound last Monday afternoon. The incident occurred in the off-campus apartment Mayer shared with another senior, Jim Aries.

When he returned from classes to the apartment that afternoon Aries discovered his friend's body and a brief note in which Mayer described feeling that "life just isn't worth living." The weapon used was a .30-06 rifle belonging to Aries.

Mayer was always cheerful and showed no outward signs of despondency to those who met him. "He was a real extrovert

and very outgoing," according to Dr. G. D. McCann, Director of the Computing Center and Mayer's advisor. Aries explained to police that there was probably no "single incident that made him do it. It was just that he felt life was not worth living."

Editorials

Welcome to Caltech!

Welcome, faculty and high school students, to Caltech!

We should like to remind you that Caltech is not **all** science. Look at the men behind the machines, the students around campus; talk to any of them.

Perhaps you may learn as much from them as from the impressive technical displays you were exposed to this morning.

—Tim Hendrickson
Norton Greenfeld
Bob Berry

Repairs and Reason

Students may have an area on campus in which they can work on cars in the near future. Discussions are going on between students led by Fred Brunswig and people in B&G, and are progressing rapidly.

The major suggestion has been to take a section of the parking lot just east of the gym, fence it in; put in ramps, a used oil drum, and supply solvent; and have electrical outlets and water available. It may even be possible to have a concrete floor or a covering overhead. The car-washing area would also be included, hopefully enlarged to a two-car capacity. Other ideas being considered include other areas of campus or even paying some nearby service station to allow students to do their work there.

Two important features of an on-campus area would be the clarification of rules and the use of work permits. At present the rules say that no work is allowed on campus, but students do their work anyway. B&G recognizes this and issues a work permit—written permission to work on a car—to anyone who asks for it and agrees to some simple rules such as cleaning up afterward. But the existence of these permits is not publicized and not many know about them, so they are not worth much now. A standardized procedure for the longer repair jobs would eliminate a lot of the confusion and some of the problems now plaguing B&G.

The important thing to realize here is that this is an example of constructive cooperation between students and the Institute, in this case B&G. This happens, usually, if students have a valid complaint and sensible solution. This, and other instances like it, **do** prove that there are some intelligent and reasonable Institute personnel.

—Norton Greenfeld
Tim Hendrickson
Bob Berry

Letters

Student Parking Complaint

Editors:

Recently returning to Tech from the outside world (what goes up must come back down) I found the student parking area near Keck filled. [The area is posted with notices requiring student parking stickers for all parking in that area. Just half the cars had such stickers. The time was 10:30 a.m. on Monday.] It turns out, furthermore that in such a situation, the student must come back and put his car in the student area later in the day, or he will get a parking ticket.

This was the third time this has happened to me this term. Other students mention the same problem, but usually it occurs only once or twice a term, depending on how much they leave campus during the day. Typically, if there are any empty spaces they are at the extreme north end of the lot. Random counts during the day indicate 20-50 (usually around 45) of the 90 spaces are occupied by cars with stickers. I, or anyone I know, have never seen a car without a

(Continued on page 3)

Letter

Culbertson's Good Enough

Editors:

This afternoon, we, Caltech's students of science and engineering have the privilege to hear our Professor Feynman deliver a stimulating and encouraging address generously sprinkled with his enjoyable humor, and possibly quite similar to his forthcoming Nobel deliberations. He will be speaking to us, perhaps, over our heads as we are most accustomed, but nevertheless, to us.

Culbertson supported

Yet, as with the visit of another highly esteemed Nobel physicist last spring, Professor P. A. M. Dirac, there has arisen concern over whether the place designated for the talk, this time Culbertson Hall, is the most appropriate spot on campus, considering the achievements of the speaker and the broad, general interest and benefit of the address to all our fellow undergrads, grads, and faculty. With respect to the latter consideration, I wish to support the assertion that indeed this location south of San Pasqual is infinitely more appropriate than a certain building to the north.

We will come mostly as students, dressed as we choose, ap-

pearing as we wish, and as yet not formally welcomed to the company of scholars, not for an afternoon of entertainment, not to contemplate modern architecture, and not to renew our belief in science or academic life, but for a deeper enrichment which our Institute offers so admirably. In Shakespeare's day we would have stood as groundlings to witness that master's greatest works. Today we can stand in Culbertson for a very similar experience. Indeed it would matter little if the address were given on the athletic field in the rain: our interest would be as great, our enthusiasm would be the same, and our respect for Dr. Feynman and his address to us would be unaltered. Thus, as this is a talk for our students and faculty, it is indeed most appropriate that it be delivered in a location to which we are more accustomed and to which we feel a greater attachment.

But who knows! After many years the Rose Bowl became our "home field!" Maybe someday Beckman too may lose some of its glitter to become part of our Institute; maybe even as soon as the Millikan Library becomes a reality.

Karvel K. Thornber

More Notices

(Continued from page 1)

65 cents.

ORGY

All students are invited to attend the YMCA La Honda Student Conference at the La Honda Y Camp Dec. 27 - Jan. 1, the theme of which will be "Man Alive." Cultivate social and intellectual interests with other men and women. See the Y for details.

CHRISTIAN FELLOWSHIP

At the next two Friday noon meetings of the Caltech Christian Fellowship Dr. Geoffrey Bromiley, Professor of Church History at Fuller Seminary, will discuss the ideas of two men who have molded both Catholic and Protestant belief. On Dec. 3 the subject is "Augustine, Philosopher of the Early Church" and on Dec. 10 "Aquinas, Philosopher of the Mediaeval Church."

A MEETING

of students interested in arranging tours of research centers in LA will be held at 4 p.m. tomorrow in the Y lounge.

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From Other Campuses by Smutty

The MIT Tech recently announced that they were going to try to drum up enthusiasm for an old and forgotten tradition thereabouts, namely the "All-Star Basketball Game." According to the Tech, "This titanic struggle was waged annually between two stalwart faculty teams, usually Humanities and Science vs. Engineering and Administration." The Tech admits to caring about more than the faculty's physical fitness; quoth the paper, "The thought of Dean Wadleigh running around in shorts is too irresistible to pass up." We know the feeling.

Georgia Tech's *Technique* was gloating to itself in the last issue about their clever Sigma Nu's, who managed to advertise their fraternity by switching around the instructions for Georgia Tech's "card section," the people who do those stunts with cards during football games. Instead of spelling out "Tech" during the homecoming game they spelled

out "Sigma Nu". Big deal. They're still a long way from the Rose Bowl. Or being original.

Amidst the crumpled pages of the Purdue *Exponent*, findeth we an appealing adventure in advertising. A pretty picture of a lovely lass sexily swinging her sedentaries is framed with the words winsome "You can't study all the time!" plus a lot of garbage about selected spots seductive to not snaking. Man, that just shows how little they know about it.

Lehigh University has announced that students with a 3.0 or better will be exempt from attending classes, if they wish. That's called "negative feedback" around here.

In the Virginia Tech we find the following definitions of the "isms" so confusing in our times:

Socialism — If you have two cows, you give one to your neighbor.

Communism—If you have two cows, you give them to the government and the government

gives you some milk.

Fascism — If you have two cows, you keep them and give the milk to the government; the government sells you some milk.

Nazism—If you have two cows, the government shoots you and takes the cows.

New Dealism—If you have two cows, you shoot one and milk the other; then you pour the milk down the drain.

Capitalism — If you have two cows, you sell one and get a bull.

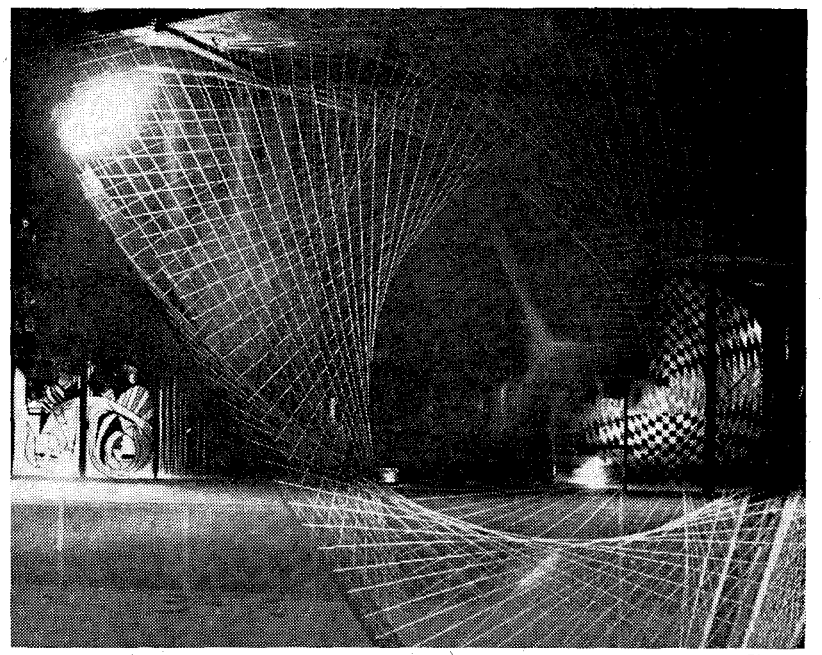
No Parking

(Continued from page 2)

sticker ticketed unless it was in the lot overnight for several nights. Then a warning ticket was sometimes issued.

This parking problem is clearly one of non-students infringing upon the privileges granted the students. The students are required to use this area (or park off down in the boondocks behind the tennis courts), and in theory it is supposed to be reserved for their use. It would seem that either cars without stickers should be ticketed or towed away or the students should be allowed to park where they want (like others seem to do).

Luther Perry



—Gleason

Courtyard view of Page's "Mystique" Interhouse motif. With rain discouraging major outdoor construction, the bands became the featured attraction.

Students And Faculty Polled On Vietnam

by Jeff Hecht

Recent surveys of college campuses by both *Playboy* and *Moderator* magazines reveal that the bulk of college students support our national policy in Vietnam.

There is, however, a significant difference between faculty and student opinions on such issues as bombing Hanoi and other North Vietnamese cities. The students take the more aggressive view, while the faculty members favor limiting the war to South Vietnam.

US has obligation

About 80 percent of the students feel that the United States has an obligation to provide active military assistance to South Vietnam. Also some 70 percent of the faculty members share this opinion. About 25 percent of the students disagree with the Administration's current policy in Vietnam, while 32 percent of the faculty disagree.

The results were taken from surveys made at campuses all

over the nation. Approximately 1000 students and 200 faculty members form a permanent "sounding board" for questions of national interest in the *Playboy* survey. The *Moderator* survey received responses from nearly 600 of its college readers to whom it sent questionnaires.

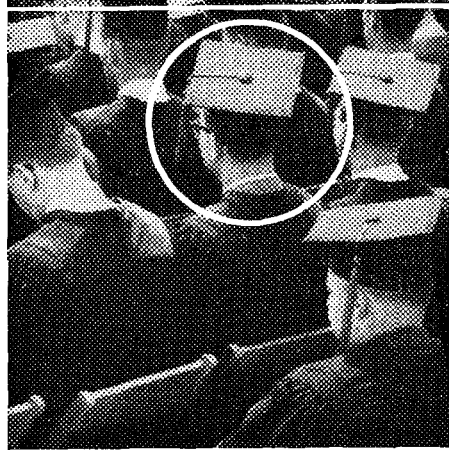
Demonstrations useful

The considerable noise caused by dissenters has not greatly affected opinion. The *Moderator* survey revealed that 57 percent of the students felt that these demonstrations — which both students and faculty feel represent about 5 percent of the students — served some useful purpose.

Some 90 percent of the students feel that Americans are obliged to serve in the armed forces, even if they don't agree with national policy. Strangely enough, of the faculty, not faced with the draft, only 82 percent share this view.

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"Million Dollar Legs" Featured

"Million Dollar Legs," a parody on sententious movies, will be shown in the second of the series of movies sponsored by the Pasadena Art Museum. The movies will start at 8:30 p.m. Friday, Dec. 3. The program also features "The Mysteries of Chateau du De" and the second episode of the "Captain Marvel" series.

Klopstokia needs \$

In "Million Dollar Legs" W. C. Fields plays the President of Klopstokia, a country full of Klopstokians which has somehow managed to go deeply in debt. "What this country needs," says Fields as the head Klopstokian, "is money." However, all is not lost, as the Klopstokians have an

unusual natural resource, namely their legs. Since the Klopstokians can outrun their weight in deer, the president decides to have the natives compete in the Olympics. The Klopstokian track team is promptly formed and kills two birds with one stone by running alongside the train, thus avoiding expensive train fare.

In addition to Fields and Jack Oakie, director Eddie Cline (Keaton's favorite) also collected Andy Clyde, Ben Turpin, Billy Gilbert, and many others to round off the cast.

Shazam!!

"The Mysteries of Chateau du De," a short film produced by Man Ray, is an avant guard classic of the Paris of 1920. Last, but not least, is the second episode of the amazing Captain Marvel (Shazam!!).

The Art Museum is located on at 46 N. Robles, and admission price is \$1.50. The next movie series will be shown on Dec. 17.

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Diaz Plays in Beckman

Alirio Diaz, the famous Venezuelan guitar virtuoso, will appear in Beckman Auditorium tomorrow night at 8:30 p.m. in a concert sponsored by Caltech's faculty committee for assemblies and programs.

Diaz, a native of Venezuela, began his musical studies at the Caracas Conservatory. In 1950 he began study in Madrid and was awarded the coveted "Prize Extraordinary." Later he went to study under the internationally renowned master, Andreas Segovia, at the music academy in Sienna, where he currently works as Segovia's assistant.

Widely known for his original work in developing the repertoire of music for guitar, Diaz himself writes, adapts, and arranges. He has studied music from libraries of Paris, London, Boulogne, Brussels, and Rome, written in very old notations, and often includes such music in his recitals for the historical interest and for their own intrinsic beauty.

Tomorrow Diaz will perform a series of pieces representative of Latin, Spanish, and Italian music from the 16th century to the present day. Tickets are available from the Caltech ticket office and Mutual ticket agencies.

Benton Explains Medieval Sex

by Mike Meo

"Aphrodite is a powerful goddess," concluded Dr. John Benton last Friday evening at a YMCA Dinner Forum. "If we are to worship her properly, we should not be misled by false ideals drawn from a mistaken impression of our romantic heritage." The false ideal which Benton specifically attacked in his scholarly 7 p.m. lecture, "Courtly Love and Modern Romance," was the nineteenth-century concept of courtly love, which he claims never to have existed.

Based on legend

The idea of "courtly love" is based mainly on the legend of Lancelot and a textbook written in the twelfth century by a courtier of Champagne, Andreas Capellanus, on "The Art of Courtly Love." Benton read selections from both works to the audience with a comic intonation, and maintained that a major ingredient of reading in the 1100's was the intonation used by the reader. Many times the element of irony is overlooked by today's silent readers, he noted.

No elevation of women

Socially-accepted adultery, the elevation of women, and the nobility of love were the three main elements of the romanticized, Victorian version of chivalry, but Benton pointed out that the twelfth-century chivalric code, in reality, had: 1) very little elevation of women, 2) no social acceptance of adultery, and 3) very little nobility of love. The most prevalent attitude towards love in olden times was that it was a sickness, not a blessing. Adulterers were usually executed on the spot by irate husbands, and as for women,

their social status was higher in ancient Rome than in feudal France.

A thread of enmity towards sex is noticeable in the saga of courtly love from its Church beginnings (Saint Paul the Apostle preferred chastity to fornication, and mentioned marriage only as a last resort) to its Victorian heyday. Today the act of love is sometimes described as the "friendliest thing two people can do" and Benton suggests that the doctrine of so-called "pure love," that is, the platonic love of a virgin, was actually a joke. The nineteenth-century historians, on the other hand, invariably regarded it as an ideal ethical goal.

MATHEMATICIANS PHYSICISTS ELECTRICAL ENGINEERS

LINCOLN LABORATORY has openings for a limited number of engineers, physicists and mathematicians.

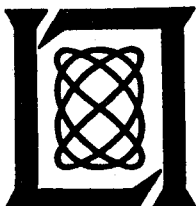
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DECEMBER 3

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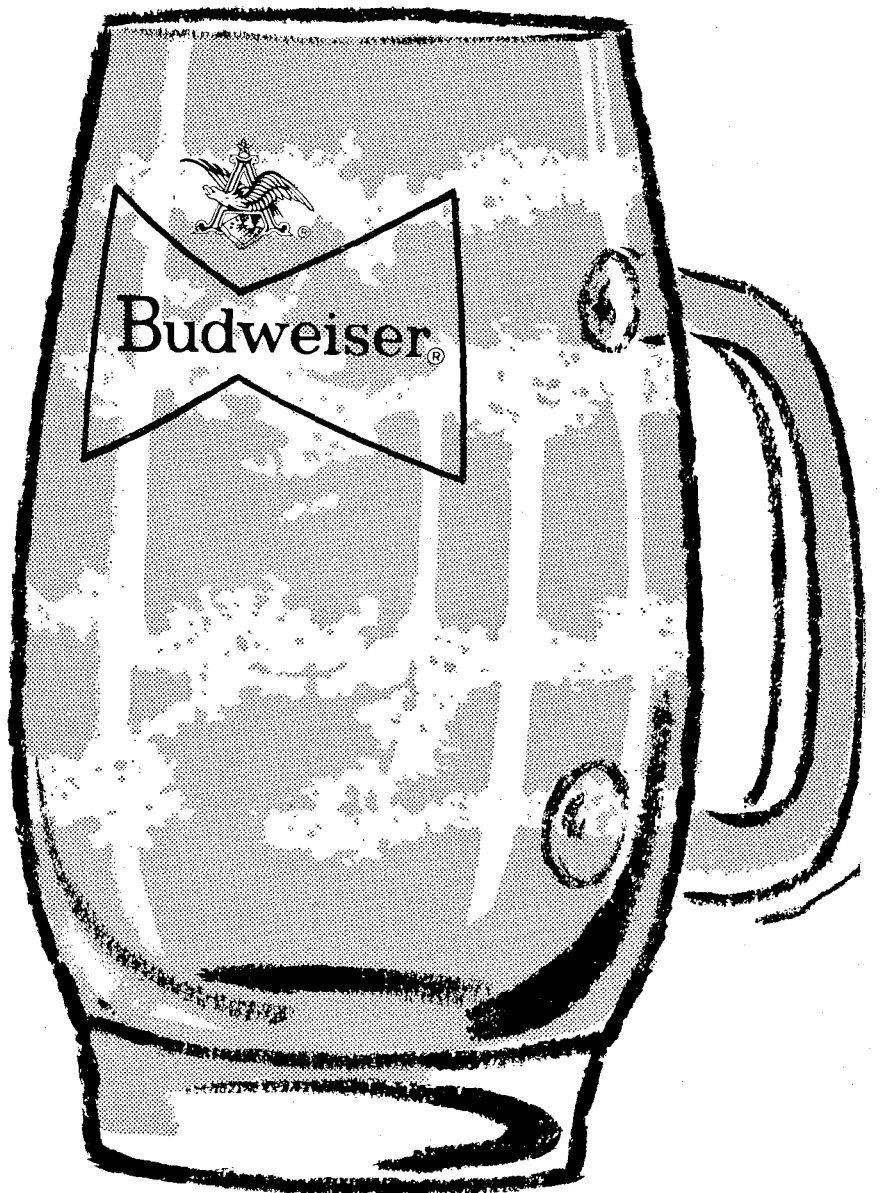


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Questions



how did
this
happen?

Look closely.

Whoever polished off that glass of beer was a real beer drinker. Someone who uses the swallow approach. Not a sipper. Sipping, you see, is for *wine*. It's the best way to appreciate the delicate taste of a fine vintage. But not beer.

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Matmen Lose to LACC Season Opens For Basketball

In an unusual, close match, the Caltech wrestling team dropped its opener to LA City College 23-16. Tech's formerly large team had to forfeit both the 130 lb. and the 152 lb. classes; fortunately LACC reciprocated in 137 and 160. The first real match saw Larry Gorbet take down his opponent, then through a sloppy move fall directly into a pin. In exhibitions Mike MacLeod and Russ Crenshaw both won, Crenshaw by a very generous margin. John Stevens' 145 lb. opponent held a black belt in judo and made good use of his knowledge for takedowns, finally pinning in the last minute of the last period. Dick Sacks, our own answer to Judo Joe, sportingly restricted himself to traditional wrestling techniques. Although he came close several times, Sacks had to settle for an unrealistically close

8-6 decision. Our 177-pounder, 169 pound Jim Woodhead, who usually puts on a good show, had perhaps his best supporting cast ever. While Woodhead's cool moves and casual domination should have made the match boring, his opponent's gasp-and-groan exhibition was too funny to ignore. Not only our side, but the referee and his own coach saw through his act; his teammates set aside the usual sideline coaching for such commentary as "Forget about your Oscar and start wrestling!" Howard Powell, usually in the 177 class, had to fill in for the injured Andy Kampe as heavyweight. As luck would have it, LACC faced him with a 238 pound blob. Though Powell was faster and more proficient, the 50 lb. mass difference cost us a decision.

The Beaver quintet opens the 1965-66 basketball season with a busy three game schedule this week.

The loss of John Tucker has reduced the bench strength. The prospects, however, remain bright. The front line is set with Terry Bruns at center and Jim Pearson and Jerry Yudelson at the forwards. Doug Holford, Don Blair, Ed Hsi, and Jim Stanley will share the guard duties. The cagers have performed creditably against Pasadena College in several recent scrimmages. Frank Potter, Sali Ma, and Bob Firestone are also expected to see action.

Pacific Christian plays here tonight at 8 p.m. in the season's opener. Biola comes in Friday night. The Beavers will then travel to Pacific Christian on Saturday. Fans will be more than appreciated at the two home games.

The frosh games will precede the varsity contests, each starting at 6:30 p.m.

What's the Matter with Our Football Team?

by Balint

The football season is over, thank God. The team that showed so much promise at the beginning of the season and in a couple of games went down to defeat week after week. True, many of the teams we played were much stronger; true, we suffered several key injuries, but we played at least two teams during the year which were on the same level as us. We had a chance to beat both Azusa Pacific and Claremont-Harvey Mudd. Yet in these two games the team played by far its worst games of the season, losing 28-0 and 55-7.

Good offense

At least on paper Caltech had a pretty good offense. The season started with Mike Brennan and John Frazzini at running backs, both of whom had very impressive seasons the year before. At quarterback was Tom Burton, a frosh, who was an unknown quantity. But he proved that he was an excellent passer, with receivers such as Lonnie Martin, Les Powers, and later in the season, Frazzini. The offensive line,

though not overly large, proved in several games that it could provide holes for the runners and protection for the quarterback. There was considerable trouble, though, with the defense, especially after Andy Kampe was lost with a knee injury. Tackling was poor all year and the pass defense had huge gaps.

Good defense

But there was one game during the year in which the offense put everything together and the defense managed to plug up its holes. Against Pomona, one of our strongest opponents, the football team did amazingly well. We showed that we could play football when we had the desire. We lost the game 21-6, but except for a fumble at the Pomona 10 yard line, the score could have been a tie or perhaps 14-12. The team also played a reasonably good second half against Occidental, a team for which we were no match.

No desire

The team simply seemed to lack desire in many of the other games. A good example of this was the last game against CHM. Here was a team which had scored only 29 points all season, and only two field goals in four conference games; yet they rolled over the Beavers with 55 points. Tech's defense seemed to have forgotten how to tackle; CHM just walked through the arms of the Teckers. Meanwhile, the pass protection also broke down; blockers just stood around and watched quarterback Burton run for his life. With few exceptions, the whole team seemed to have a "really care" attitude.

Next year's team will have most of this season's players returning, but they will not have any hopes for a better season unless their attitude improves. The lack of interest in the student body plus the long record of losses makes for a defeatist attitude which the players must overcome if they are to win. They have the ability; all they need is the desire.

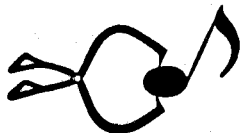
Lloyd Wins Again; This One Forfeited

Lloyd continues to monopolize the discobolus as Ruddock forgot to turn in their eligibility list in time and hence forfeited the football match scheduled for Sunday morning, Nov. 21 after Interhouse Dance. The story, according to Marsh Hall, captain of the Lloyd football team, goes differently:

"The men of Ruddock, after watching the mighty Lloyd machine practice on the Athenaeum lawn, decided they would rather switch than fight, and hence forfeited."

Lloyd now stands far ahead in the discobolus race with an impressive 18 points. All other houses except Ruddock have one point (Ruddock, of course, having none). A match with Fleming House in riflery is scheduled for this Sunday, Dec. 5.

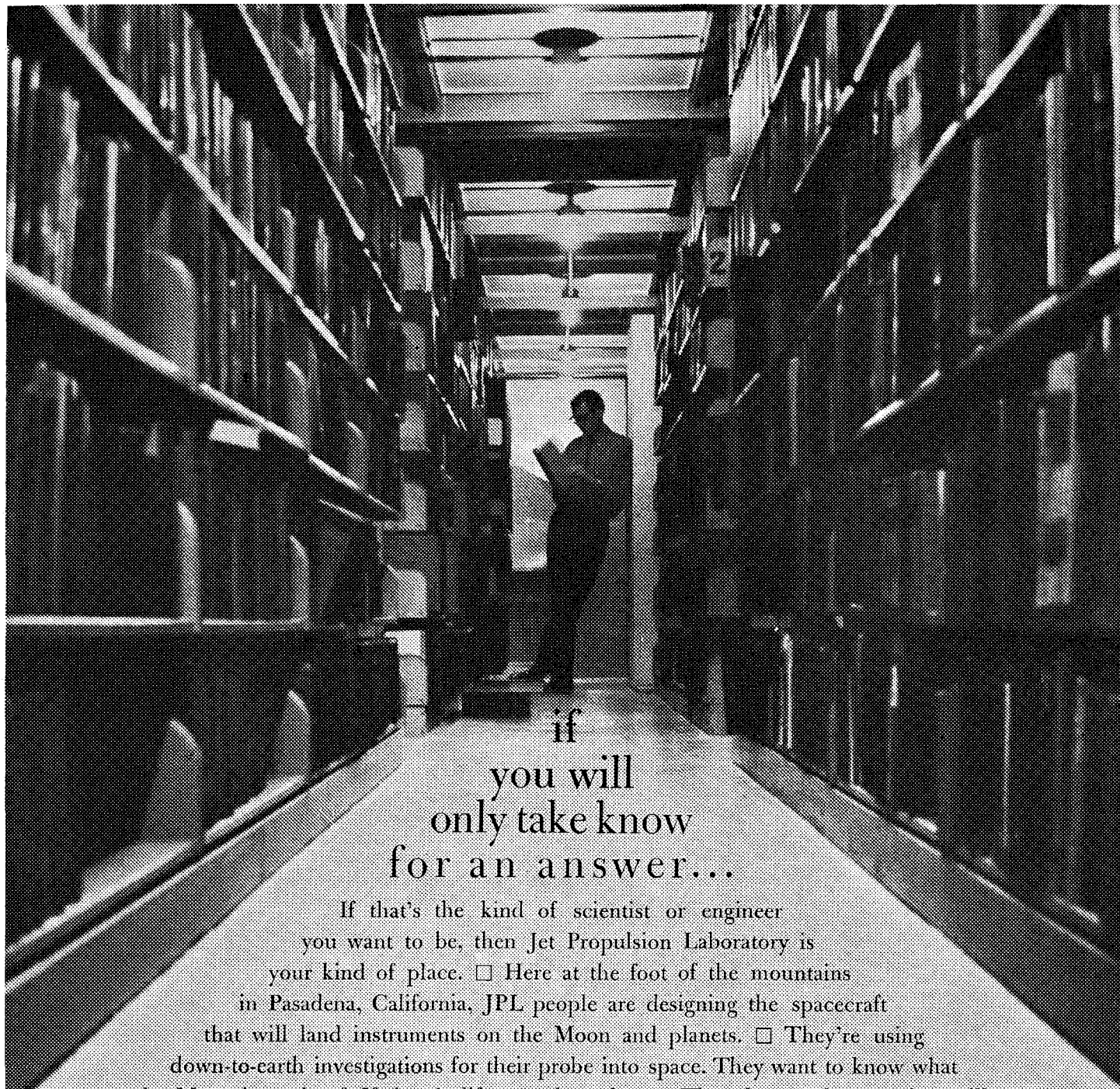
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Ochse Plays Bach's Work

One of J. S. Bach's best known works, the Magnificat in D, will be the subject of a lecture-demonstration to be given by Orpha Ochse, Lecturer in Music, in Dabney Hall, on Wednesday, December 8 at 7:30 p.m.

Composed in 1723, the Magnificat illustrates many of Bach's techniques in composition, and his methods of scoring for voices and instruments. These aspects, as well as the historical significance of this work will be included in the discussion.

Music History and Analysis has been a part of the Caltech humanities curriculum since 1960. This is the first time, however, that the public has been invited to attend any of the sessions. In addition to the lecture on December 8, two sessions in the spring will be open to the public. These will have as their topics "The Symphonies of Mozart," and "Classic Techniques in Modern Music." There is no admission charge.

Y Finance Drive Successful; Blacker Wins Scrippsies

The Y finance drive has exceeded its goal of \$2800 with donations totaling \$3113.85 as of Nov. 29. Blacker took the lead with an average contribution of \$6.38 for a House total of \$453.

Dabney, Lloyd, and Ruddock followed with contributions of over \$5 per person. The undergraduate body, with an 80 per cent response, contributed \$2265.75, nearly 75 percent of the total. The grad students accounted for the remainder, with 30 per cent response to date.

The donations this year represent a sizable increase over last year's donations totalling nearly \$2850. Students are encouraged to return any of the remaining cards to the Y office as soon as possible. Blacker also won last year's

drive and hence the girls from Scripps.

The funds from the drive are generally an indication of student interest and appreciation for the many programs which are sponsored by the Y. This indication usually serves as a guide for the amount donated by the powers found outside the campus.

Last year there was a slight controversy about which members of the student body the Y's program should have been aimed toward. The controversy, which was never very great, ultimately died down with the realization that the Y program should be of interest to all students to attend or take advantage of as the mood, or more rarely, the spare time struck them.

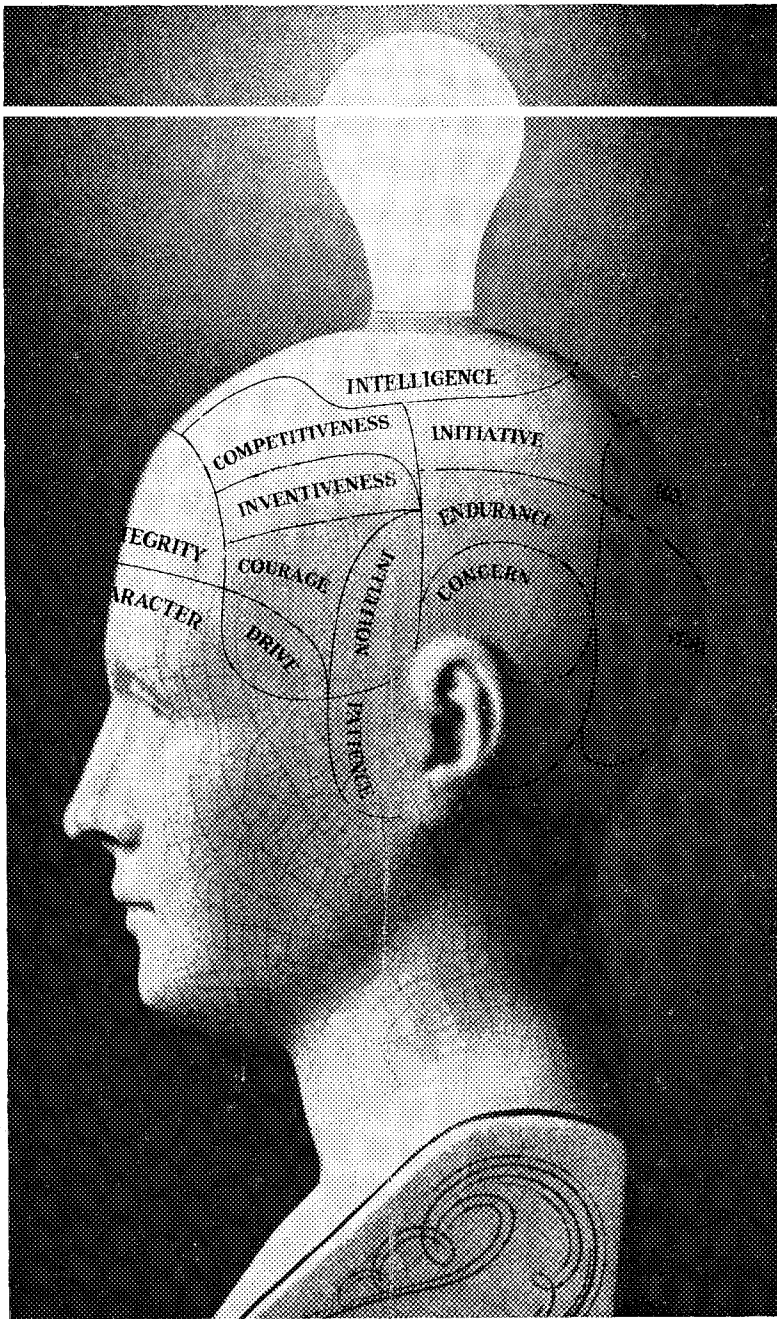
Senior

(Continued from page 1)

Mayer, an outstanding electrical engineering major in the top five percent of his class, won the George W. Green Memorial Award "in recognition of outstanding ability and achievement in the field of creative scholarship" presented at last June's Commencement. The award, including a \$400 prize, was clinched by the computer program which he developed to stimulate the genetic information contained in the DNA of a plant as well as the processes of growth and development inside the plant.

Remarkable program

Patterned after a model proposed by Dr. James Bonner, the program is "planted" and proceeds to "sprout" from one fertilized cell. Mayer worked under both Bonner and McCann in developing the prize-winning program research; he had worked with computers since his junior year in high school.



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