Scholarships Awarded End Of 3rd Term

Final undergraduate scholarship awards will be made at the end of this quarter. The application deadline for the new and more convenient Institute scholarship procedure is May 1, 1961.

The Admissions Office, however, requested that the regular scholarship forms be picked up and returned by the end of second term, to facilitate processing.

During the month of May, the scholarship committee will conduct interviews of the scholarship applicants. As soon as third term grades are in, the candidates will be notified of the committee's action.

Solid State Confab Here

A colloquium on solid state devices took place at Caltech Monday and Tuesday. The colloquium, aimed at demonstrating that solid state devices have had an important role in technology and that the principles, on which they are based, and the methods of arriving at that theoretical foundation will make in the future.

The program consisted of addresses by many delegates, including several by members of the Caltech faculty, Frank Press spoke on Modern Seismology at the dinner Monday's night, Carver Mead, Floyd Humphrey, and Gordon Wilts addressed the council. Presiding as chairs for the four sessions were Lee Dublirian, Charles Wilts, Frederick Lindvall, and G. D. McCammon.

James Fisk, President of Bell Telephone Laboratories, gave the opening address on Monday, talking on "The Impact of Solid (Continued on page 6)"

Tau Beta Pi Picks 16 New Members

The Tau Beta Pi Association announced the election of nine seniors and five juniors to membership in the organization. Membership is dependent upon the candidate's passing the National Tau Beta Pi entrance examination, to be held Wednesday, March 1.

The seniors elected to membership are Clark Benson, Steve Hocher, Kent Hult, Herb Rino, Marry Schultz, Mike Schwab, Byron Summers, Arch Thieszen, and Dave Turner.

The juniors elected to membership are Arthur Hess, Evan Hughson, John Neumeyer, Bob Rudderick, George Sailles, El Kip Thorne, and Dick Zacher.

Three-Man Team To Edit Tech; Hogan Tops Foll For IHC Post By Tom Tisch

The newly elected officers, including Editor Kenneth Ronne, of the California Tech, will take office next Monday as they are sworn in by the present Board of Directors. Their terms of office will run until this time next spring.

YMAC Seeks Student Funds

Student solicitors are combing campus this week to the annual YMAC fund drive. The drive will go on until May 1, 1961, and the money raised will be used to support various organizations, ranging from the Leaders of America to the Sunday Evening Film Series.

The money raised will be given to the YMCA, student contributions will go directly into projects, and the annual fees will go into the Y office or paying salaries.

On campus activities, student contributions will remain a major point in getting outside money.

According to Y President Bob Naon, prospective outside donors are impressed by large amounts of student support for the drive and the sponsor, they tend to give more money.

Students donating to the fund drive will be given pledge cards and the dates for making contributions are: May 1, 1961, and the friends will be told to make a check to the Caltech YMCA.

The Y stresses that contributions are not necessary for membership, which is free. They are, however, thankfully acceptably to help carry on the Y program.

Houses Schedule Votes Next Week

House elections are coming Thursday, and the voting will be held this week. The elections are, however, no longer than over the past term. The results are not to have to be announced before the election day.

Disaster!!

The Three-Headed Monster Takes Over

Associated Students of the California Institute of Technology

Volume LXII

Pasadena, California, Thursday, February 23, 1961

Number 19
The same argument holds for choosing between teaching vs. college. We think it has a responsibility to do this before it tries to be purely entertaining.

For example: 1) The newspaper is in the best position to investigate and spread the ideas, attitudes, motivations, and whatever else might come from our faculty on science, life in general, or education at Caltech. We would like to see some stories on the types of research projects our faculty is most interested in like what do they do while they are not teaching classes? We would like to see an opportunity for several interested faculty members to comment on some length in a column that type article on a thought-provoking topic such as "The relationship between government and the university," "What kind of family and community life does a college professor have?" "College teaching vs. college research," "Sex." We would be interested in some interviews with Dr. DuBridge and the deans to find out what kind of guys they are and what they think about.

Highly entertaining books, magazines, movies, plays, etc., are certainly available for people who want to be entertained. Sure, the Tech could enter this field, but we think it is important to remember that the newspaper is the only medium through which Caltech students and faculty can discuss ideas and problems such as we suggested. Therefore we feel space priority should be given to these discussions. The same argument holds for changing between articles on building hi-fi’s, racing autos, mixing drinks and the discussions. Again, there are sources other than the newspaper for the information.

Further, looking back over our term of office, we feel that the editors job offers unique possibilities for the exercising of leadership and judgment. The diligent editor will find himself in many situations which need the advice and opinion of someone who is really informed and also objective—such as ASCIT decisions and IHC decisions. If he has got anything on the ball, we have found, he can make a very significant contribution toward the decision. None of this shows up directly on the editorial page. What does show on the editorial page in this vein is an ability to outline controversial student issues, reduce them to their salient points, and try to point out the action which would do the most good for the majority of people. This responsibility is in addition to the obvious editorial purposes of stimulating thought by demanding action, complaining, complimenting, etc.

We wish the new editors lots of success. Their greatest fault is that they are naive, their biggest asset is that they are energetic. We would like to see their energy directed toward implementing some of the above ideas. Their naiveness will disappear with time, we hope.

Good luck.

Tom and John

Rotation Decision

The IHC decision to support rotation, despite the close vote and the last minute re-poll in Ruddock House, was as well-founded a recommendation to the faculty as could reasonably be expected.

The presidents had considered the problem all term and listened to ideas from all possible sources. Each one had a great amount of information from which to decide which plan he would like to see adopted. This was even especially true of Donnelly, who although representing a divided House opinion, certainly heard all the pro and con arguments well presented in two long House meetings.

What more can be said than at the time the recommendation was to make the majority of the IHC and the majority of the students felt a rotation would be a good idea. We think that is the best that can be done and we hope that the faculty agrees.
In the light of the steady de­
generating situation in Indone­
sia at the present time, what can we expect for the future? Hanna states frankly that he doesn’t think that the Sukarno regime can last, and he expects a major break-down of the Indonesian situation within the next few years. Beyond this, Hanna ad­mits that further predictions are mere guesswork, but he points out several important factors that must strongly influence In­donesian’s post-Sukarno future.

One of these factors is the in­ten­tional national spirit that has arisen out of the fifteen years of Sukarno’s post-World War II propagan­da. Although regional feeling is a strong influence, and many local leaders are probably more capable than those around Sukarno, this nationalism will no doubt prevent the complete break-down of the Indonesian na­tion, and save Southeast Asia from the chaos that Africa has found in the Congo.

(Continued on page 6)

WORDS: THEIR CAUSE AND CURE
Today let us take up the subject of etymology (or entomology, as it is sometimes called) which is the study of word origins (or insects, as they are sometimes called).

Where are word origins (insects) to be found? Well sir, some­times words are proper names that have passed into the language. Thus, from the name of a river, the word ‘nile’ was associated with the nile gods and goddesses. If the name of a river was named after its discoverer, the Frenchman Andre Marie Ampere (1775-1836) similarly named after him, the Ampere law, which is named after the Scot James Watt (1736-1819), and bulb after the American Fred C. Bulb (1843-1912).

One is, incidentally, quite a poignant little story about Mr. Bulb. Until Bulb’s invention, all illumination was provided by gas, which was named after its inventor Milton T. Gas who, strange to tell, had been Bulb’s roommate at Cal Tech! In fact, strange to tell, the third man sharing the room with Bulb and Gas was also one whose name burns bright in the annals of illumination—Walter Candle!

The three roommates were inseparable companions in col­lege. After graduation all three did research in the problem of artificial light, which at this time did not exist. All Americas used to go to bed with the chickens. In fact, many Americans over one hundred years older than you and me are still being woken up by roosters.

Well sir, the three comrades—Bulb, Gas, and Candle—promised to be friends forever when they left school, but moreso, also printed the initials of their room number, Mr. Candle invented the candle, got rich, and forgot his old friends. Then Gas invented gas, got rich, bankrupted Candle, and forgot his old friend. Then Bulb in­vented the bulb, got rich, bankrupted Gas, and forgot his old friends.

Candle and Gas, bitter and impoverished at the age respec­tively of 70 and 71, went to see as representatives of the world’s oldest and second oldest eel boy. Bulb, rich and grand, also went to sea, but he went in style—as a first-class passenger on luxury lines.

Well sir, strange to tell, all three were aboard the ill-fated Lusitania which was named after its discoverer, the Frenchman Andre Marie Ampere (1843-1912). As the ship sank, Bulb, rich and grand, also went to sea, but he went in style—as a first-class passenger on luxury lines.

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Bulldogs Wipe Beavers; Casabamen Face CHM

Last Friday the Beavers joured to Whittier, where they suffered the wrath of angry Poets, 82-66. Whittier couldn’t make a basket, shooting only 30 per cent of their field goal attempts, while the Beavers were 51 per cent. In the second straight game shooting less than 50 per cent. The only bright spot for the Beavers was the playing of Taylor Biggins, who made 15 points and played a good floor game, after being injured just last Tuesday. Biggins played with seven stitches in his forehead.

The Beavers close the season tomorrow night when they face tall Claremont-Harvey Albers. The Beavers whipped the Sags two weeks ago on the Jean hardwoods, but the game was tight all the way. Aside from having the home court advantage, Claremont will be out for Beaver blood in revenge the earlier loss. But the Beavers are “up” for the contest also, since the winner will finish third in the conference.

The Caltech varsity basketball team faced the two top squads in the SCIAC during the past week, dropping both contests. But the showing the Beavers made against league-leading Redlands today makes the Beavers favorites to whop Claremont-Mudd this Friday and capture third spot in the SCIAC.

Redlands’ Bulldogs handed the Beavers a 70-62 loss, but the game was well played, and closer than the score indicated. The Beavers defense held league leading scorer Jack Schroeder to nineteen points, and Redlands’ four fresh swimmers.

Frosh Swimmers Lose To UCLA

In an unspectacular but adequate start, the Frosh swimming squad went down to defeat to the UCLA freshmen 67 to 23.

Bright start of the frosh effort was Dave Selb who turned in a 55.4 second effort in the 100 yd. freestyle to take second, then turned and knocked off a first place in the 220 yd. freestyle with a 2:04.3 time.

Mike McCammon took a first in the 440 yard freestyle and a third in the 220 freestyle, and Art Turner placed second in the backstroke and third in the Individual medley.

The Froshmen had no entries in the diving, and lost both relays, thus giving a substantial point margin which they were unable to overcome.

Prospects are bright for George McLean to join the frosh squad. McLean’s times are spectacular when compared with other times, both varsity and freshman.

Solid State (Continued from Page 1)

Start “Drums on the Economy.”” He stated that electronics is today the most rapidly expanding industry in the nation, today standing fifth among the nation’s industries and fifth in future. It is even greater, for men can cope with the increasing complexity of our life only “through more efficient higher speed transmission and "communications as one function.”

Drugs Sandoric Cosmetics Tobacco CALIFORNIA REXALL PHARMACY 555 S. Lake SY 2-3156 Breakfast Lunch Dinner

Tech Will Host Yale Chorus On March 29

BY DAVE KAUFPERMAN

A chorus of undergraduate students and recent graduates of Yale University will be spending two days on the Caltech Campus at the beginning of third term. This group has traveled extensively in the past few years, having accompanied scholars touring Russia. Now that they have rehearsed long enough for Communist audiences, they have decided that they are ready to appear in the democratic capitalistic nations of the West, such as San Marino and Pasadena.

The twenty-five members of the chorus will live in the Student Houses for two days, March 29 and 30. This will provide an opportunity for all interested Techmen to talk with them about their travels behind the Iron Curtain. They will have with them several movies and sets of slides depicting their experiences in Russia.

During the time they are here they will present two programs. The local Yale Alumni organization, which is paying part of their travel expenses, will host the group at a gala party the evening of March 29. The next night, Thursday, March 30, the chorus will present a program in Calhertson Hall, open to the public. Reports are that their repertoire is made up entirely of Russian music.

The State Department, according to our latest sources of information, is reluctant to let the men return to Russia again.

(Continued on page 6)
106 Couples Enjoy Annual ASCIT Winter Formal at Hilton

By RICHARD KARP

"The ASCIT Winter Formal, held last Saturday and featuring Wayne Songer's band, was spoiled 'natty a complete success,'" said Tom Tisch, famous evaluator of ballroom dances. "This dance was really cool," continued Tisch.

Perhaps the most interesting, although not most desired, part of the dance did not occur in the ballroom, but rather happened in two rooms within the hotel, rented for the night. Events began in a suite rented by Page House for the purpose of dispensing drinks. Even before the first bottle was opened, pages members had already goofed by ordering ice from room service.

Along with the ice came the house dicks, who closed up the Page suite, returning the majority of the room rent. Amidst the confusion, one of the detectives was told that Joel Donnelly was the chauffeur for the Page delegation. Upon checking the register, a room was found rented to Joe Donnelly.

The dicks, who ran up to the room to see the chauffeur, suddenly discovered that they had discovered another room, this one for Ruddock House, that had already been dispensing liquor. After placing the liquor under seal, Ruddock was allowed to dispense soft drinks and sex only. "This only proves," said Tisch, "that liquor is a corrupting influence, while sex is not."

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STU'S EXPLAINING HOW MACHINES WILL SOME DAY "OUTTALK" PEOPLE

"Stu" Smith graduated from Southern Cal with a powerful yen for excitement. His kind of excitement—Engineering.

He got what he bargained for (and a little more) when he joined Pacific Telephone. One of Stu's early assignments was to find out how existing Long Distance networks could be used to pipeline high speed "conversations" between computers in distant cities.

The fact that he did a fine job did not go unnoticed.

Today, four years after starting his telephone career, Stu's still head of a staff of people responsible for telephone and data transmission engineering in the huge Los Angeles area. As a pioneer in this new data transmission field Stu predicts data processing machines will some day do more Long Distance "talking" than people.

Stu contacted 12 other companies before joining Pacific Telephone. "I don't think there's any limit to where a man can go in the telephone business today. Of course, this isn't the place for a guy looking for a soft touch. A man gets all the opportunity he can handle right from the start. He's limited only by how well and how fast he can cut it."

If Stu's talking about the kind of opportunity you're looking for, you'd better visit your Placement Office for literature and additional information.

"Our number one aim is to have in all management jobs the most vital, intellectual, positive and imaginative men we can possibly find."

PERSIFOUR R. KUTZ, President
American Telephone & Telegraph Co.

BELL TELEPHONE COMPANIES
Seminarians Describe Techmen: Friendly, Honest, Godless

BY IANCE TAYLOR

Sitting on campus last week were 10 students from seven California seminaries. While here, the future ministers spent their time in discussions, bull sessions, and even a few parties with Caltech students.

Out of their stay here, the theological students brought some opinions on Techmen, as they stated in a meeting last Thursday night. Some of their conclusions:

LACK OF COMMUNICATION

The first thing all the seminarians mentioned was a lack of communication between themselves and the Techmen. Both camps, they say, speak a different jargon, and they both have difficulty understanding each other. Another thing contributing to lack of communication was the Tech atmosphere toward religion—the theological students thought that Techmen knew about religion sketchily and not very deeply.

After explaining their lack of communication, however, the theological students went on to discuss their opinions of Caltech, and its students:

Their first point was that Techmen were unable to relax from the pressures of the school, and that their schooling carries over into their approach toward religion. Most of the students the seminarians talked to approached religion analytically, and most of them were unsatisfied with the results. The theological students stressed that religion calls for an emotional involvement, in addition to a rationalistic approach.

FRIENDLY AND HONEST

The seminarians found the Caltech atmosphere friendlier than they expected. Techmen seemed willing to discuss religion, even if they didn't accept it.

They also thought that Caltech students were—intelligently at least—very honest, but they criticized Techmen for thinking all religious people are necessarily hypocrites.

In closing, the seminarians said that Techmen, by and large, follow an agnostic, humanistic philosophy. They also said that Techmen don't understand the need for a God to back up their philosophy.

- - -

Yale Singers Come To Tech

(Continued from page 4)

This summer, there has been a great deal of speculation about the reasons for this: perhaps the ranks of their second tenors are being infiltrated by Communist sympathizers; perhaps they were spending too much gold abroad; or perhaps the new administration has ruled that the Yale men can't return to Russia until the Harvard Glove Club gets equal time there.

Students interested in sharing their rooms with one of these students should contact Dave Kaufman in Blacker, or the representative in their own house.

Engineers: Scientists!

WE'RE LOOKING FORWARD TO MEETING YOU

Last year we had the pleasure of meeting many engineering and science seniors during our visit to the campus. As a result of our discussions, a gratifying number chose to join our company. We'll be back on the dates below, and this notice is your invitation to come in and see us.

If you're interested in joining a company that's a leader in fields-with-a-future, you'll be interested in the advantages Boeing can offer you. Boeing is a major contractor on the advanced solid-fuel ICBM, Minuteman; on the boost-glide vehicle, Dyna-Soar, and on the BOMARC defense missile system. Boeing's Vertol Division is one of the country's foremost builders of helicopters.

Boeing is also the nation's foremost designer and builder of multi-jet aircraft. Production includes eight-jet B-52G missile bombers, KC-135 jet transport-tankers and the famous Boeing 707, 720 and 727 jet airliners.

Research projects at Boeing include celestial mechanics, solid state physics, nuclear and plasma physics, advanced propulsion systems, and space flight.

Expanding programs offer exceptional career opportunities to holders of B.S., M.S. and Ph.D. degrees in aeronautical, mechanical, civil, electrical-electronic and industrial engineering, and in engineering mechanics, engineering physics as well as in mathematics and physics. At Boeing you'll work in a small group in an individual ability and initiative get plenty of visibility. You'll enjoy many other advantages, including an opportunity to take graduate studies at company expense to help you get ahead faster.

We hope you'll arrange an interview through your Placement Office. We're looking forward to meeting you.

WEDNESDAY THROUGH FRIDAY MORNING MARCH 1, 2 AND 3

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