

DISASTER!!

The Three-Headed
Monster Takes Over

California Tech

Associated Students of the California Institute of Technology

**THE END
OF THE RICKETTS RAG
IN PRINCIPLE
AND IN FACT!**

Volume LXII.

Pasadena, California, Thursday, February 23, 1961

Number 19

Koh Wins ASCIT Prexy Race

Scholarships Awarded End Of 3rd Term

Final undergraduate scholarship awards will be made at the end of third term this year, following a new and more convenient Institute scholarship procedure.

The actual procedure of applying for scholarships will remain the same. However, the deadline for applications will now be 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 announced in June, the committee will begin meeting to discuss the awards.

The announcement of awards should be complete by the end of June and the applicants notified of the committee's actions.

Solid State Confab Here

A colloquium on solid state devices took place at Caltech Monday and Tuesday. The colloquium considered "the impact that solid state devices have had on the economy and technology of the country, the principles on which they are based, and the contribution that this revolutionary field will make in the future."

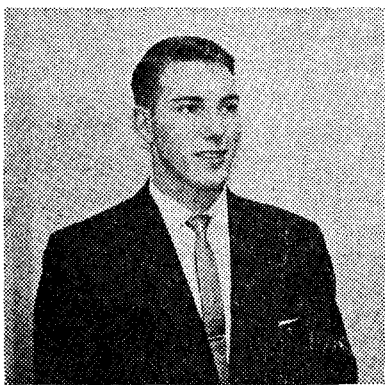
The program consisted of addresses by many delegates, including several by members of the Caltech faculty. Frank Press spoke on Modern Seismology at the dinner Monday night. Carver Mead, Floyd Humphrey, and Gordon Stanley also addressed the conclave. Presiding as chairmen for the four sessions were Lee DuBridge, Charles Wilts, Frederick Lindvall, and G. D. McCann.

James Fisk, President of Bell Telephone Laboratories, gave the opening address on Monday, talking on "The Impact of Solid State Devices on the Future of Electronics." (Continued on page 4)

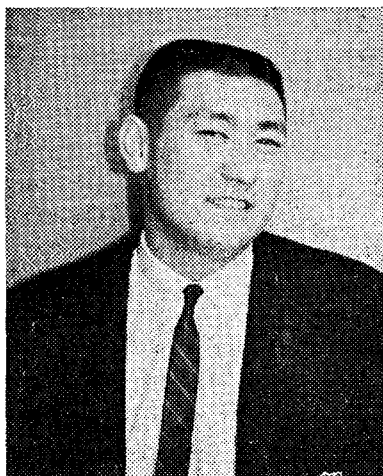
Tau Beta Pi Picks 16 New Members

The Tau Beta Pi Association announced the election of nine seniors and seven 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 Hechler, Bent Huld, Herb Rice, Marty Schultz, Mike Schwab,



Bob Koh and Bill Hogan —
They won.



IHC Adopts Rotation By ExComm System

BY JOHN TODOROFF

The Interhouse committee voted last week to recommend a rotation plan to the faculty Student House committee. Contrary to Lee Molho's story in the "Blue Slip," this vote by no means decides that there will be a rotation next year, however.

It is now up to the nine-man faculty group to study the IHC report and the method by which the rotation plan evolved. Indications certainly are that this study will be complete and open-minded and definitely not just "more or less routine approval" as Molho stated.

The faculty committee will approve the rotation sometime next term if they find the IHC report to be sufficient evidence in its favor.

The rotation method approved was suggested by the ASCIT ExComm. It begins with each frosh eating meals for one day in each of the six Houses he is not living in. On any one of these days only his home House and the House in which he is eating that day may rotate him. This phase would begin on Monday, registration day, go to Friday, and conclude the following Monday. Weekend meals would be in the home House, during which time no other House could come in and rotate.

Tuesday, Wednesday, and Thursday of the second week will be unrestricted with frosh eating in their home Houses but with any House permitted to visit any frosh in another House.

Choices and assignments will be made on Thursday night rather than Friday as Molho thought. Thus the plan will take

the same amount of time as the old four-house two-day rotation that we had until last year.

Specific details will be written by the IHC this week. There is no truth to Molho's statement that there will be an open IHC meeting to discuss details Monday night, according to Joel Donnelly, IHC President.

Antarctica Mt. Named Press

A mountain in Antarctica has been named after Dr. Frank Press, director of Caltech Seismological Laboratory, it was announced by the U.S. National Committee for the International Geophysical Year.

Committee chairman Dr. Joseph Kaplan of UCLA said the Caltech geophysicist was honored in recognition "of the long and outstanding services rendered by him in the planning, organization and implementation of the United States Antarctic program during the International Geophysical Year."

The proposal to name the peak Mount Press was made by George R. Toney of the National Academy of Sciences, Washington, D.C., and Dr. Charles R. Bentley of the University of Wisconsin, who mapped the area. It has been approved by the NAS Special Committee on IGY Geographic Names in the Antarctic and the U.S. Department of Interior.

Mount Press, in the Ellsworth Highland between Marie Byrd Land and Edith Ronne Land, is about 700 miles from the South Pole in West Antarctica.

Caltech continues to operate a seismographic station at Wilkes Coast in Antarctica, under the direction of Dr. Press.

Announcements

LIBRARY BOOK GIVE-AWAY

At 1 o'clock on Friday, February 24 in Dabney Library, books which are duplicates or discards will be available for free distribution on a first-come, first-served basis. Old-timers can be reassured that the same high standards will prevail.

Three-Man Team To Edit Tech; Hogan Tops Noll For IHC Post

BY TOM TISCH

Tech's political and journalistic leadership surged upward momentarily with the election of Bob Koh as ASCIT President, then turned downward with the

Egad!

election of three men to the position of Editor of the California Tech, Abell, Benson, and Molho.

EGAD!!

Dean Gerber was elected to the office of ASCIT Vice-President to run the Honor System for the next three terms. Bill Hogan was elected president of the Inter-House Committee to succeed Joel Donnelly.

For the position of ASCIT Treasurer, John Golden was picked; he will serve unofficially during third term learning the duties and responsibilities from current Treasurer, Sid Leibovich. Art Robinson was chosen ASCIT Secretary.

Pete Metcalf defeated two opposition candidates to take over the reigns of Social Chairman from Tim Little.

In other races that were uncontested, Jon Kelly was elected Activities Chairman, Jim Sagawa, Business Manager, and Don O'Hara, Rep-at-Large.

Spicer Conant defeated George McBean for the position of Secretary of the Board of Control, and will succeed Carl Hamilton.

Last, but not to be slighted, the Amendment to the By-Laws changing the name of "Board of Directors" to "Student Council" failed by a significant margin in spite of the entertaining and enlightened campaign waged by earnest Dave Kubrin in its behalf.

Mayer Speaks On Man, State

Popular author Milton Mayer, who appears regularly in the nation's leading magazines, will speak tonight in Dabney Hall Lounge. His topic will be "Men and the State."

Mayer has traveled extensively on both sides of the Iron Curtain, and has served as Professor of Social Research at the University of Frankfurt. He was one of the directors of the National Association of Educational Broadcasters' program, "Voice of Europe."

Mayer's speech will include many of the facts he has uncovered while traveling abroad. His general theme will be a comparison of United States governmental philosophy with that of the eastern European countries.

The main attraction of Mayer's speech, however, will be Mayer himself, a dynamic, impressive speaker with unlimited ideas. According to program director Dick Brandt, he is thought-provoking, incisive, and the sort of person that Caltech students like to hear.

The newly elected officers, including the Editor(s) 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.

YMCA Seeks Student Funds

Student solicitors are combing campus this week in the annual YMCA fund drive. The drive closes Friday, and by then the Y hopes it will have raised an average contribution of \$5 per undergrad student, according to Drive Chairman Eli Chernow.

The money raised by the drive will be used to support various YMCA programs, ranging from the Leaders of America to the Sunday Evening Film Series.

Unlike other money given to the YMCA, student contributions go directly into projects, and play no part in supporting the Y office or paying salaries.

Besides supporting campus activities, student contributions also act as a selling point in getting outside money.

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

Students donating to the fund drive will be given pledge cards and YMCA signed receipts. More temptingly, they will also be given the option of putting their contributions on next term's bill, as well as the more traditional means of writing out a check to the Caltech YMCA.

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

Houses Schedule Votes Next Week

House elections are coming! The dates for nominations and elections have been set, for the most part:

Dabney—Nominations were yesterday. Elections are next Tuesday.

Fleming—Nominations are next Tuesday. Elections are some time the following week.

Lloyd—Nominations are tonight. Elections are not set.

Page—Nominations are tonight. Elections are next Monday.

Ricketts—Nominations are tonight. Elections are next Monday.

Ruddock—Nominations are next Monday. Elections are the following Monday.

Editorial

A Few Suggestions

Believe it or not, in a year of being editor of the **California Tech** we think we have picked up some useful ideas on what a weekly newspaper can do to be a constructive influence on life at Caltech.

Of course it must primarily report the campus activities on the news pages and report them in sufficient depth to let everyone know what opportunities exist for any particular evening he doesn't feel like snaking.

Beyond this, we think the newspaper is in a unique position to encourage the students to broaden and deepen their interests in what Caltech has to offer in the way of an education. 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 spot 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 interesting faculty members to comment at some length in a colloquium-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.

2) The newspaper could make a significant step toward promoting Interhouse understanding by printing something like monthly columns by each House President describing the atmosphere and activities of his House.

3) We think it would be helpful to publicize the discussions of the Educational Policies committee so that the student body as a whole would have more opportunity to contribute ideas to the discussions.

4) There are some YMCA groups which talk about philosophy of life, religion, public affairs, and meet several times with visiting leaders of America. The paper might print what these people are finding out.

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 choosing 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 most 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 biggest 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 be made 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.

—jt

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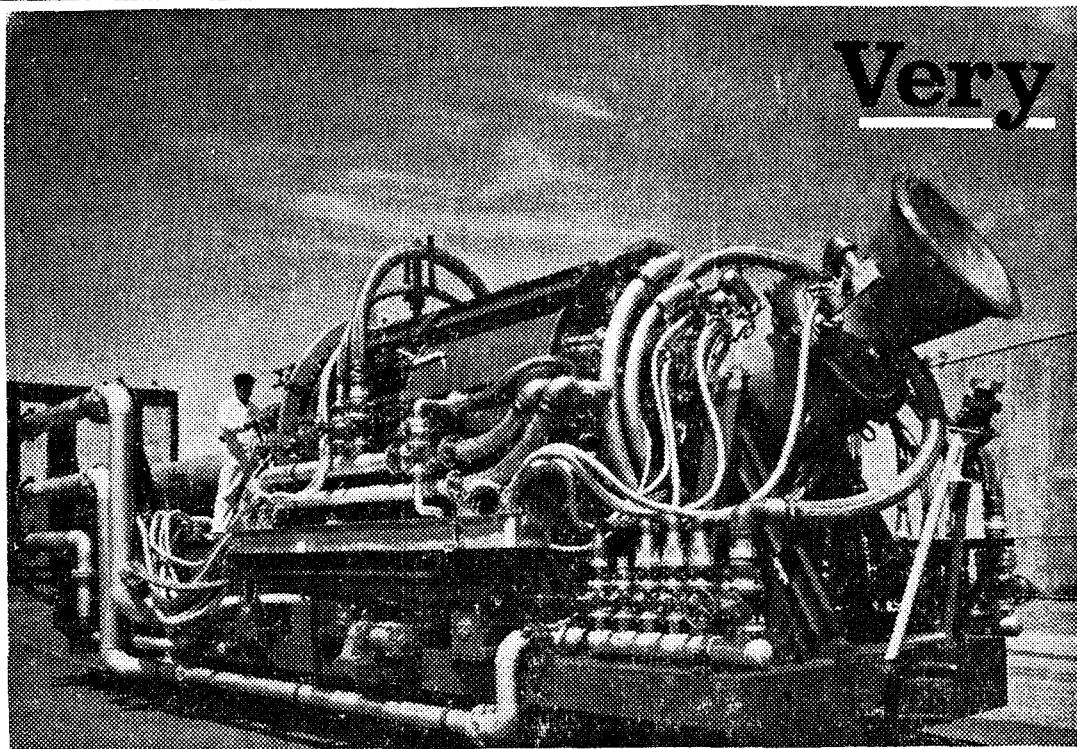


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Sukarno's Leadership Holds Key To Current Indonesian Problems

by J. H. Johnson and Matt Couch

A lack of intelligent leadership is probably the chief reason for the current deterioration of the political and economic structure of the Southeast Asian nation of Indonesia, states Willard A. Hanna of the A.U.F.S. Hanna, who will be on campus until next Wednesday, March 1, points out that the Indonesian revolution, although it succeeded in its initial goals over ten years ago, has been kept artificially alive by means of intrigue, demagoguery, and ultra-nationalism, to the detriment of the national economy and welfare.

In order to understand the advances and set-backs encountered by Indonesia in the last decade one must first understand the nature of the man who has, during this period, completely dominated Indonesian life—the Indonesian President, Sukarno. Hanna, who has met President Sukarno, is of the opinion that Sukarno is a highly talented man who has misused his abilities. He has tended to follow a policy of "control and restrict" rather than "expansion and development." His efforts have been directed towards political manipulations and stifling his potential opponents, in order to maintain supremacy.

Today, Sukarno remains in his precarious driver's seat by virtue of his ability to balance the potentially dangerous power factors of Indonesian political life—the army, the Communists, and the political in-group—against one another. Sukarno's political machinations and his rather intense personal life seem to have left him with little time for the constructive development of the nation.

The Indonesian nation — resource-wise—is an enigma. In terms of natural and human resources, Indonesia is potentially one of the most prosperous countries of Asia. They possess a vast wealth in tin, copra, rubber, tea and many other mineral and agricultural products. The population—although heavily concentrated in some areas—are, on the whole, productive and accomplished. Too, the literacy rate is increasing by leaps and bounds. In spite of these assets, the Indonesians lag well behind the rest of Southeast Asia in economic development. Hanna stresses that although some of the economic lag is due to lack of capital needed for expansion, only through a new, more far-sighted and stable administrative situation can real progress be made.

Internationally Sukarno has led as confusing and precarious a path as he has domestically. His avowed desire is to avoid entrapment in either the Western or Communist blocks. His wish to avoid entanglements hasn't, however, led him to refuse aid from either group. Over the past ten years Indonesia has accepted approximately a billion dollars in aid from the United States and almost \$800 million from the U.S.S.R. Most of the Russian aid, however, has been within the last five years, and only a few months ago Sukarno signed an agreement with the Soviet Union for more than \$300 million dollars worth of military aid. This, and Sukarno's increasingly Communist domestic associations, have led many Western observers to feel that Sukarno's 'neutralist' course is veering sharply to the left.

Since the aid we have thus far given Indonesia seems to have

done us little good, and indeed, seems to have been of small help to the Indonesians as well, what should our aid policy towards Indonesia be in the future? Hanna believes that the traditional nation-to-nation aid techniques we have used in the past are not effective in this area, and further, that the United Nations is be-

coming too politically oriented to be an effective agency for distribution of aid to under-developed nations. He recommends that American aid in this area be distributed through a new regional agency, on the basis of demonstrated need, and with suitable efficiency controls to make sure that the aid money is productively used.

In the light of the steadily degenerating situation in Indonesia 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 change in Indonesia's domestic 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 Indonesia's post-Sukarno future.

One of these factors is the intense "national spirit" that has arisen out of the fifteen years of Sukarno-led 'patriotic' 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)

California Tech

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Lance Taylor and Roger Noll

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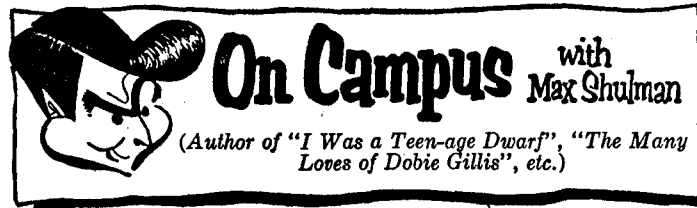
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WORDS: THEIR CAUSE AND CURE

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. Take, for instance, the words used in electricity: *ampere* was named after its discoverer, the Frenchman Andre Marie Ampere (1775-1836); similarly *ohm* was named after the German G. S. Ohm (1781-1854), *watt* after the Scot James Watt (1736-1819), and *bulb* after the American Fred C. Bulb (1843-1912).

There 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 America used to go to bed with the chickens. In fact, many Americans were chickens.

Well sir, the three comrades—Bulb, Gas, and Candle—promised to be friends forever when they left school, but success, alas, spoiled all that. First Candle invented the candle, got rich, and forgot his old friends. Then Gas invented gas, got rich, bankrupted Candle, and forgot his old friends. Then Bulb invented the bulb, got rich, bankrupted Gas, and forgot his old friends.



They became fast friends all over again

Candle and Gas, bitter and impoverished at the age respectively of 75 and 71, went to sea as respectively the world's oldest and second oldest-cabin boy. Bulb, rich and grand, also went to sea, but he went in style—as a first-class passenger on luxury liners.

Well sir, strange to tell, all three were aboard the ill-fated Lusitania when she was sunk in the North Atlantic. And, strange to tell, when they were swimming for their lives after the shipwreck, all three clambered aboard the same dinghy!

Well sir, chastened and made wiser by their brush with death, they fell into each other's arms and wept and exchanged forgiveness and became fast friends all over again.

For three years they drifted in the dinghy, shaking hands and singing the Cal Tech rouser all the while. Then, at long last, they spied a passing liner and were taken aboard.

They remained fast friends for the rest of their days, which, I regret to report, were not many, because the liner which picked them up was the Titanic.

What a pity that Marlboros were not invented during the lifetimes of Bulb, Gas, and Candle! Had there been Marlboros, these three friends never would have grown apart because they would have known how much, despite their differences, they still had in common. I mean to say that Marlboros can be lit by candle, by gas, or by electricity, and no matter how you light them, you always get a full-flavored smoke, a filter cigarette with an unfiltered taste that makes anyone—including Bulb, Gas, and Candle—settle back and forget anger and strife and smile the sweet smile of friendship on all who pass!

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Bulldogs Wipe Beavers; Casabamen Face CHM

Last Friday the Beavers journeyed to Whittier, where they suffered the wrath of angry Poets, 82-46. Whittier couldn't miss the basket, sinking well over 60 per cent of their field goal attempts, while the Beavers were just the opposite, for the second straight game shooting less than 30 per cent.

The only bright spot for the Beavers was the playing of Captain Bill Ripka, who scored 15 points and played a good floor game, after being injured just last Tuesday. Ripka played with seven stitches in his forehead.

The Beavers close the season tomorrow night when they face tall Claremont-Harvey Mudd. The Beavers whipped the Sags two weeks ago on the Beaver hardwoods, but the game was tight all the way. Aside from having the home court advantage, Claremont will be out for Beaver blood to 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 Tuesday makes the Beavers favorites to whip Claremont-Mudd this Friday and capture third spot in the SCIAC.

Redlands' Bulldogs handed the Beavers a 79-52 loss, but the game was well played, and closer than the score indicated. The Beaver defenses held league leading scorer Jack Schroeder to nineteen points, and Redlands'

Frosh Swimmers Lose To UCLA

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

Bright start of the frosh effort was Dave Seib who turned in a 25.4 second effort in the 50 yd. free to take second, then turned and knocked off a first place in the 100 yd. freestyle with a 56.4 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 Freshmen had no entries in the diving, and lost both relays, thus giving up a substantial point margin which they were unable to overcome.

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

6-8 center, George Vorpapel, to eight. Tom Bopp led the Caltech scorers with nineteen.

Throughout the first half, the Beavers clung close to the talented Bulldogs, with Bopp scoring from inside, Bill Ripka scoring from outside, and Roger Noll along with Bopp controlling the rebounding. During the last minute of the half, Redlands scored five straight points, giving them a 31-21 bulge at intermission.

For the rest of the contest, the teams played about evenly, but the Bulldogs hit a much better percentage of their shots, and so slowly increased their lead to the final margin. As a tribute to the game the Beavers played, the Redlands coach saw fit to leave his starters in for most of the game, substituting liberally only in the last four minutes.

Tech Will Host Yale Chorus On March 29

BY DAVE KAUFFMAN

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 spent three summers touring Russia. Now that they have rehearsed long enough for Communist audiences, they have decided that they are ready to appear in the decadent 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 Culbertson 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)

YMCA Elections Set For March 6

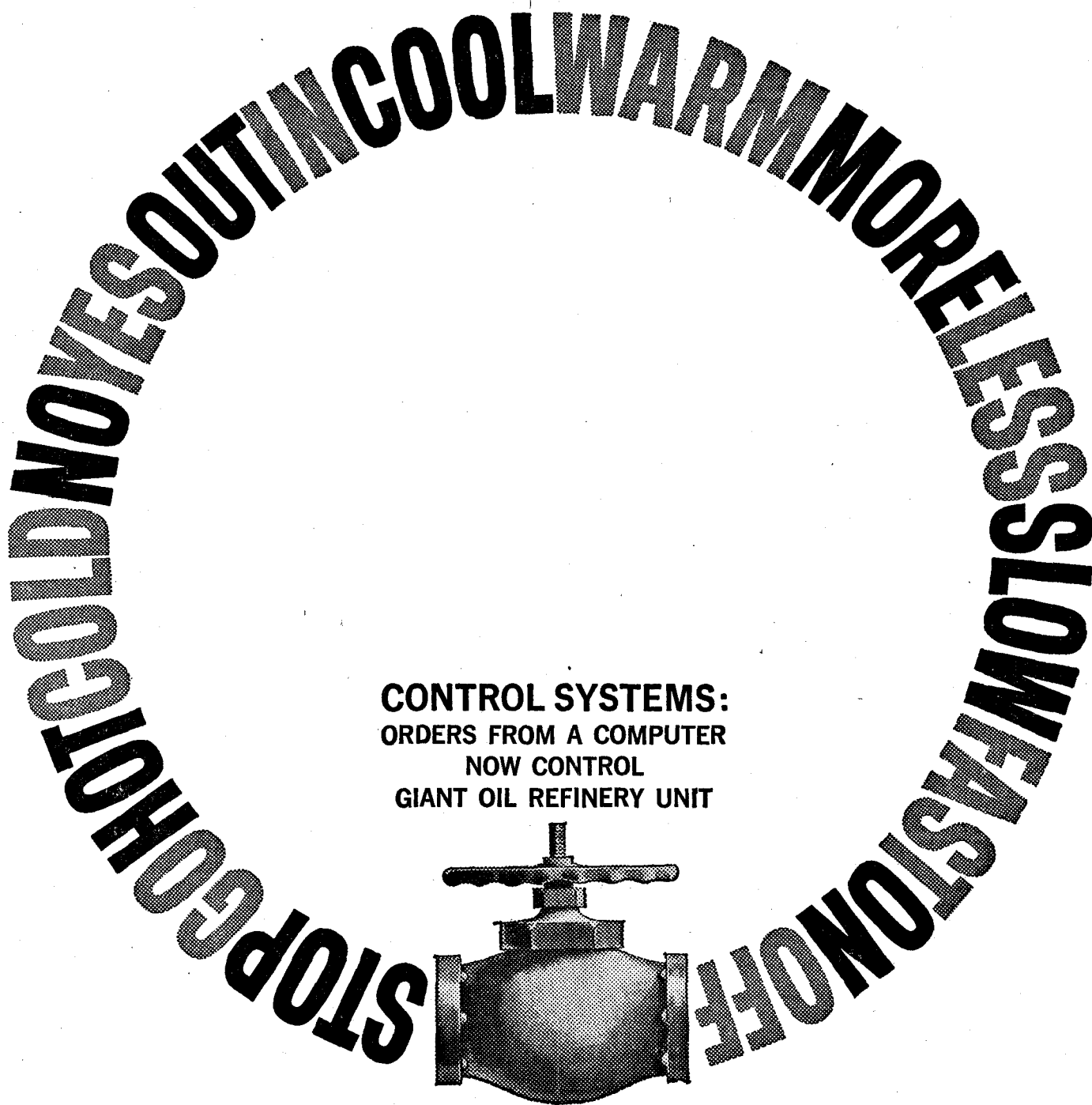
YMCA elections will be held a week from Monday, March 6, according to President Bob Nason. Any registered Y member will be eligible to vote in the affair.

Offices contested will include Y president, secretary, publicity chairman, among others. Offices are open to all members.

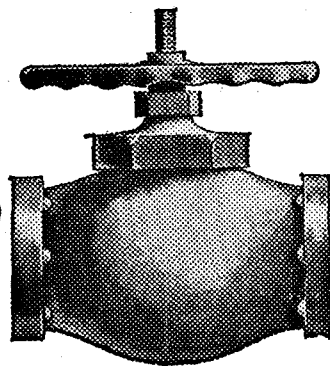
Nominations for the election will be made by a YMCA committee before the election, and they can also be made from the floor in the meeting. Votes will be taken on the "eyes closed" system.

IRE Meets Tonight

"The future of computers in the electronic industry" will be the topic of discussion by George Gerson of IBM at the meeting of the IRE-AIEE at 7:30 tonight in 142 Keck.



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Solid State

(Continued from Page 1)

State eDries 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. Its future is even greater, for men can cope with the increasing complexity of our life only "through more efficient higher speed transmission and processing of information."

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Beaver Chips

By Noll

Although Caltech students are not noted for their sentimentality, it might not be out of place to display a little tomorrow night. Caltech's basketball squad closes the season against Claremont at the Stags' gym, and with the end of the season closes the career of Bill Ripka, captain of this year's aggregation.

Anyone on the basketball team will tell you that Ripka is a great guy, and a great influence on the rest of the team. He is captain of the team in every way, not only at games, but in practice, and even when you see him walking down the olive walk.

A basketball team is only as good as its playmaker, and Rip has filled the bill here, too. Although Caltech is not threatening to take any national championships, still the team is the best in many years. This year's squad has managed to become a team, rather than a group of individual stars, and the main reason is the attitude and play of the team's acknowledged leader. For example, Rip has the best shooting eye on the team, but he seldom takes the most shots. And it was Rip who was given a seven-stitch slash Tuesday night, and came back to play a full game Friday.

What this all leads up to is the same old plea—only this time with a somewhat better reason. Bill Ripka deserves to have a large, screaming Caltech contingent at his last varsity game. The game will be good, and it will be close, and Caltech will probably win. And after it's over, senior Bill Ripka, along with Larry Brown and John Haworth, won't play any more.

Tech Swimmers Drop L.A. State Lose To UCLA

The Caltech Varsity swimming team split its season-opening double-dual meet at UCLA last Saturday, losing 66-29 to the UCLA team, but dropping Los Angeles State 52-43. The Freshman squad was defeated in their single dual meet with UCLA, 67 to 23.

Gary Tibbetts was the work horse for the losers as he took second in the 220 yard, and 100 yard freestyle events, and then captured first place in the 440 yard event. In both the 220 yd. and 100 yd. events, Tibbetts was nosed out by Gaughan of UCLA, Gaughan turning in a 2:15.6 to Tibbetts' 2:17.4 in the 220 and a 54.5 s. time to Tibbetts' 54.6 in the 100 yd. event.

Gary Turner turned in a pair of fine early season times to swipe second in both the 200 yd. individual medley and 200 yd. back stroke. His 200 back time of 2:26.8 was three seconds off the winning time, but is nevertheless an excellent time.

In the 50 yard free event, sophomore Bruce Chesebro turned in a 24.2 time to take third in that event. Chesebro's time was the second best of that event, but a judges decision placed him third. In swimming, judges decisions always take precedence over timers' decisions.

Butterfly-man Gary Mitchell took second in that event and Pete Mayer placed second in the 200 yd. breaststroke. Al Huber took a third in the latter event with a 2:50.4 time, 2.4 seconds off Mayer's time.

VS. L. A. STATE

Against Los Angeles State, the times of the swimmers were the same while the places were not. Tibbetts won the 220 yd., 100 yd., and 440 yd. freestyle events. Chesebro took first in the 50 yd. free and second in the 100 yd. free events, while Turner won both the backstroke and individual medley.

As in the UCLA portion of the meet, the Techmen lost both the 400 yard medley relay and the 400 yard freestyle relay. Additional experience is needed to drop the 400 free relay time, but a good breaststroker is needed to really cut the medley time. Mayer or Huber may be able to cut their 100 yard times enough to really help the relay team.

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 undoubtedly 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, Page 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 chaperone 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 chaperone, suddenly discovered that they had discovered another room, this one for Ruddock House, that had already begun 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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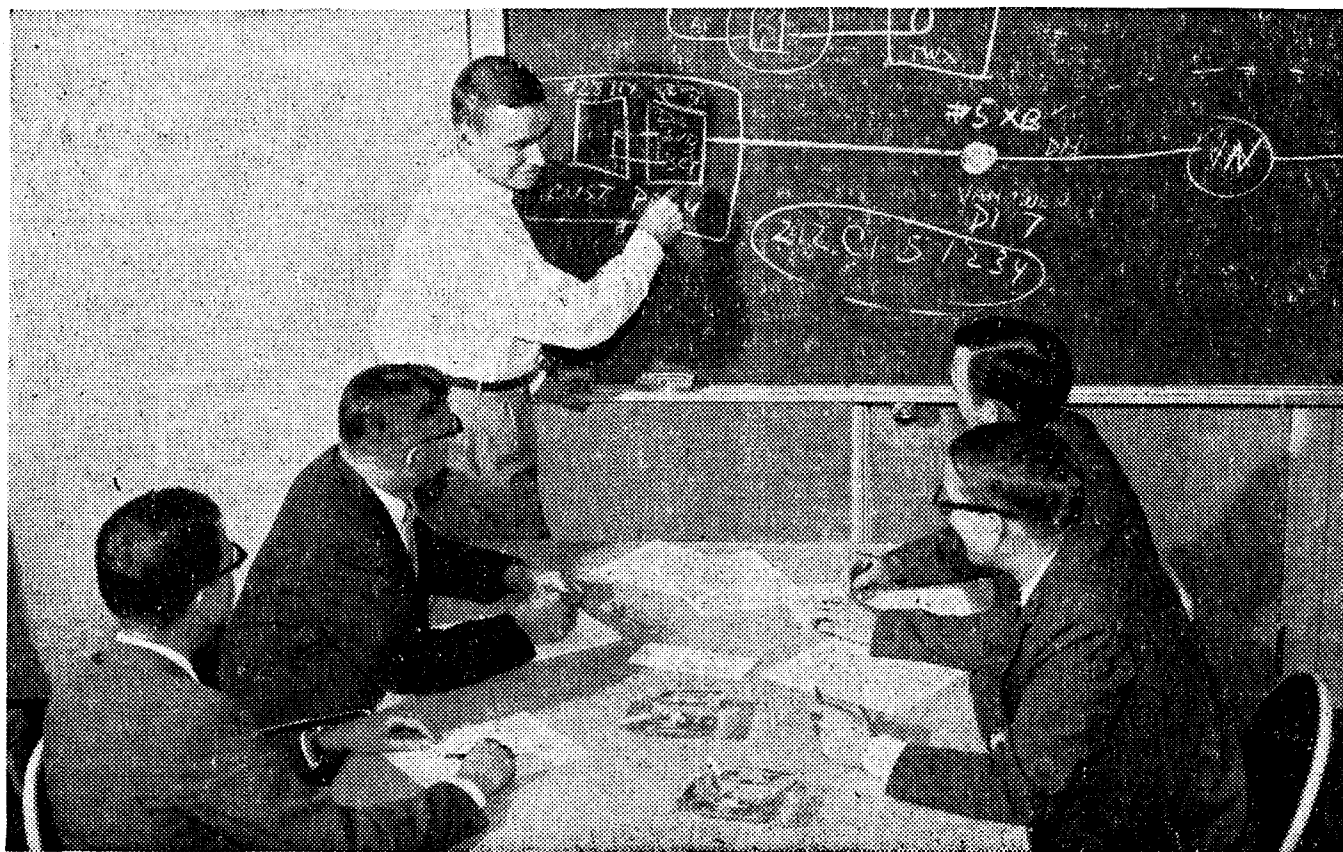
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STU'S EXPLAINING HOW MACHINES WILL SOME DAY "OUTTALK" PEOPLE

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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, Senior Engineer Stuart Smith heads a staff of people responsible for telegraph 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, just visit your Placement Office for literature and additional information.



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BELL TELEPHONE COMPANIES

Seminarians Describe Techmen: Friendly, Honest, Godless

BY LANCE TAYLOR

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

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

LACK OF COMMUNICATION

The first thing all the seminarians mentioned was 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 attitude toward religion—the theologians thought that Techmen knew about religion sketchily and not very deeply.

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

Their first point was that Techmen are 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 theologians stressed that religion calls for an emotional involvement, in addition to a rationalist 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—intellectually 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.

Band Presents Concert Sunday

The Caltech Band will present its second concert of the season this Sunday evening, February 26, in Dabney Hall Lounge, at 8:00 p.m. The public is invited to attend, at no admission fee. The program will feature a wide variety of music. Several serious selections are included, among which is the **Finale** to Dvorak's "New World" Symphony. Other parts of the program include a series of lighter numbers designed to show off various sections of the band.

John C. Deichman will direct the concert. He has been director of the Caltech Band for seven years. He graduated from UCLA after studying under Clarence Sawhill, noted authority on symphonic band music. He is currently holding a position with the Los Angeles County Schools as well as directing instrumental music at Caltech.

Students, their friends, and all others interested in music are urged to attend. Indications are that this will be the finest band concert ever presented at Caltech.

PROGRAM

"Reverie"Claude Debussy
 "Three Chorale Preludes"Wm. P. Latham
 (based on three 17th century German chorale tunes)
 "Finale" from Symphony Number Five, "From the New World"Anton Dvorak
 "Hopak"Modest Moussorgsky
 "Golliwogg's Cake-Walk"Claude Debussy
 "Flute Cocktail".....Harry Simeone
 "A Walking Tune"Clare E. Grundman
 "Bugler's Holiday"Leroy Anderson
 "Pan-American Samba"William McRae
 "Toccata".....Girolamo Frescobaldi

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 Glee Club gets equal time there.

Students interested in sharing their rooms with one of these men should contact Dave Kauffman in Blacker, or the representative in their own House.

Hanna On Indonesia

(Continued from page 3)

During his stay on campus Mr. Hanna is residing at the Athenaeum with his wife. His schedule follows:

At noon today he is attending the Y grad sack lunch and speaking on "The Future of Democracy in Indonesia." This evening he will attend a dinner at the Athenaeum and deliver his "Report From Southeast Asia."

Friday, Feb. 24, he will be visiting the Econ. 100 classes at 8 and 11 a.m., in 101 Dabney. That evening he'll dine at the home of Prof. and Mrs. R. F. Bacher.

Mr. Hanna will spend the weekend in Santa Barbara, returning to Tech Monday afternoon. Monday evening he will speak to a grad student dinner, in Chandler, on "SEATO and Chinese Infiltration in SE Asia."

On Tuesday, Feb. 28, Hanna intends to visit the H5 classes, to discuss Malaya and Indonesia, at 11 a.m. He will lunch with the H5 staff. Hanna will conclude his day by attending the H124 class in 205 Dabney.

On Wednesday, March 1, Hanna's last day on campus, he will lunch with the Geology club, and at 2:30 that afternoon he will meet with the CIT Women's Club, in the Athenaeum, to discuss "Women in SE Asia." Wednesday evening he'll attend a meeting of the LA Committee on Foreign Relations, at the Biltmore, discussing "Malaya and Indonesia . . . Contracting Lines of Postwar Development."

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