

## Y Finance Drive Begins Next Week

The annual YMCA Finance Drive will be held this coming week, November 18-22. Since most students at Tech take part in Y activities at one time or another during the year, the \$2,500 goal will be solicited from all undergrads and grads. Each House will have a house chairman who in turn will have one solicitor in every alley working under him.

The money raised from the students helps to support such segments of the Y's varied program, as the Leaders of America series, the Dinner Forums, the Caltech-Scripps Conference and the Visiting Theological Students, as well as the Y's extensive campus services.

## J. S. Bach Motet In Five Parts To Be Given

Johann Sebastian Bach's motet, *Jesu Meine Freunde*, will be performed on Wednesday, November 20, at 11 a.m. in Dabney Lounge on the ASCIT-Alumni Assembly Series. The chorus, which is composed of members of the Roger Wagner Chorale, the Carmel Bach Festival Chorale, and the Occidental College and Caltech glee clubs, will be directed by Mr. Gary Unruh of Occidental.

This five-part motet was composed in 1723 for a state funeral in Leipzig, and is among the most moving of all Bach's choral works. It will be performed in English.

The program will also include solos by Kathy Cole, mezzo soprano, and David Rasmussen, bass; it will conclude with selections by the Oxy glee club quartet.

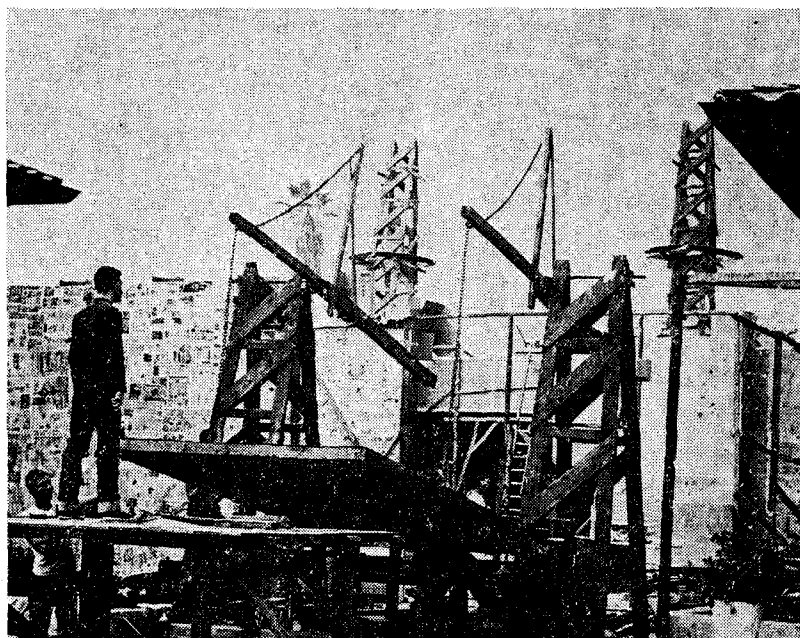
## Justice Rules Mudeo

BY STEW GALLEY

Betting is increasing for all three sides as the date of the incomparable Mudeo approaches. Innumerable lotteryists scattered the length and breadth of the campus are frantically accepting wagers and posting odds. The conflict soon to take place pits against each other three formidable opponents: the forces of Goodness and Wisdom, modestly represented by the sophomore class; the incompetencies of Debauchery and Lowliness, very ably represented by the freshmen class; and the virtues of Impartiality and Capitalism, in the guise of the junior class officers.

Next Tuesday, November 19, the impossibly wild outskirts of the campus just south of the football field will become the scene of this conflict. Beginning at 3:00 p.m., the Mudeo will include a tug-of-war, a sack race, a wheelbarrow race, a horse-and-rider endurance contest, and a tire-collecting spree. The last segment will be the Judgment, and it will be the culmination of the exhausting period of duress. As is well known, the hindrance to the employment of

# Houses Ready For Interhouse Dance



—photo by Phil Liapis

Ruddock's drawbridge goes through a pre-Interhouse test. The medieval theme also features two 45 foot towers (framework in background), and a courtyard full of machinery from the days of yore.

## Eells, Weir Examine Tech Sanity; Results Negative

BY ALAN CAMPBELL

Although it's obvious that the average Caltech troll is completely batty, it turns out the two professional psychologists on campus disagree. Dr. Kenneth Eells, Institute psychologist, and Dr. John Weir, associate professor of psychology, seem to feel there are some elements of sanity in us.

### Choose Your Madness

Dr. Eells has arrived at this conclusion through his many interviews with students who come to the Health Center for formal psychological help or for informal discussion. He finds that Techmen have several preferred varieties of madness, over and above the usual malfunctions of the college stu-

dent. The high pressure of studies and the lack of social diversion ends for many students in a complete or partial loss of motivation. The loss of the desire to work, says Eells, may also stem from more complicated emotional problems — family tensions, for instance, or, in the case of freshmen, the shock of changing from high school to college.

Dr. Eells has had much experience in battling mental health on campuses across the (Continued on page 3)

## Farmer Predicts Success In Negro Movement For Equality

BY ANDY BEVERIDGE

"The Negro movement for equality will eventually succeed," James Farmer, National Director of the Congress of Racial Equality (CORE), assured a standing room only crowd last Friday in Winnett Center. Farmer, who has been with CORE ever since it was formed in 1942, explained his viewpoint on the present racial conflict to a gathering of faculty and students, which was sponsored by the YMCA.

Farmer traced the growth of the civil rights movement and graphically pictured the evolution of CORE from its inception in 1942 up to the present day. He told how CORE was conceived by a group of idealistic students at the University of Chicago, to provide a non-violent method of settling conflicts by action.

### Small Groups Form

The group adopted the philosophy of Ghandi who practiced non-violent direct action. This group stayed small and consisted of only a few hundred throughout the United States. Farmer denoted this small number as the "means directed idealists," whom he characterized as more interested in the methods used than in the results achieved, provided that the results were attained.

In great detail he described all of the circumstances that

BY TIM HENDRICKSON

The plague of Interhouse is upon us! Once more can be witnessed the great melee as frantic social chairmen hoodwink and bullwhip the hapless freshmen into building Interhouse. Again will come the universal gnashing of teeth as Saturday night approaches, and all seems still in utter chaos, until finally it is the Interhouse hour, and everything has resolved itself into its final and more or less intended form.

The conical turrets of the Ruddock castle are scheduled to rise majestically a full 45 feet above the courtyard, war machines, and drawbridge. The drawbridge, amazingly, actually works, although there is the distinct possibility that in the process careless persons may be squashed or dropped into the alligator-ridden moat.

For the sake of further authenticity Ruddock has planned to include a macabre dungeon in which one wretched captive is being stretched on the rack and another, still twitching, is being hung. A touch of the mystic will be seen in the Holy Grail punch bowl, suspended in mid-air, from which punch will flow, in the great dining hall.

### Great Zot!

In accordance with "Grecian simplicity," last-to-decide Dabney House has planned to enthrone Zeus in all his glory on Mount Olympus. Mighty Zeus and his throne will be flanked in the courtyard by six 30-foot internally illuminated columns, which will emanate different colors in a synchronized pattern. Cheese-cloth "clouds" will cover the whole outside area.

The courtyard, and dancing area, will be entered through a

bridge winding between several small mountains. A concealed electrostatic generator will present shocking evidence of the thunderbolt power of Zeus' scepter.

To offset the immense expenses of their Interhouse the men of Fleming have developed their Roman theme very profitably. Centered in the courtyard will be a complicated fountain having a 30 by 15 by 1.5 foot pool. After Interhouse the men of "Plumbing House" say they plan to mold jello for Saga. Concerning any other aspects of the courtyard, "We don't know if this is going to work . . . it's really a bit early . . ."

The lounge will be decorated as a "sort of open hallway" entered along the covered walk in front of Fleming House, which will be converted into a classical passageway. The entrance to the lounge will be a temple with "maybe an oracle."

### Fodem Finks

Lloyd House, too, has an Interhouse oriented on an alien planet. This planet, however, has a name: Dyoll (Lloyd backwards), which is inhabited by "Fodems" characterized by big noses and pot bellies.

An observation platform near the far end of the dining hall will enable the main feature of the Lloyd courtyard display — the flying saucer suspended above the courtyard — to be seen above the Dyollian mountains and seas.

The lounge will be entered through an airlock or through a modernistic tunnel in the courtyard, and will contain a bar "consisting of non-concentric ellipses." The centerpiece of the dining room will feature a (Continued on page 6)

## Notices

### FALL SPORTS BANQUET

The annual Fall Sports Banquet will be held Monday night, December 2, at Gwinn's Restaurant in Pasadena. Tickets will be on sale from representatives in each of the Student Houses.

### INTERVIEW BRIEFING

Interviews by prospective employers will be the subject of a meeting to be held next Wednesday at 7:15 p.m. in room 206 Dabney Hall by the Director of Placements, D. S. Clark. The meeting will be a discussion of placement problems and interview procedures. All students interested may attend.

### CCF LECTURE

"Is Christianity Credible?" is the title of a Caltech Christian Fellowship talk this Tuesday, 7:30-8:45, in Winnett Lounge. Mr. William Bright of Campus Crusade will speak about the personal meaning of a Christian faith and commitment.

### LASERS FOR EVERYONE

At the forthcoming IEEE meeting, Dr. George will give a demonstration lecture on LASERS. The meeting will be held on Wednesday, November 20th, at 11 A.M. in 142 Keck. Everyone is welcome.

### DRAMA CLUB CASTING

Casting for the first play reading of the year Nov. 18-20 at 7:30 p.m., Dabney Lounge (?). Anybody interested in directing should contact J. K. Evans.

## Editorials

## Where Are We Going?

When we published the editorial on the Feynman Physics Course more than a month ago, we did not intend to throw stones at a plate glass window. On the contrary, we desired only that the EPC make some investigation of that course and its results—an investigation that should consult both instructors and students.

Our editorial has brought some attention to the question and that is at least encouraging. It was answered by a lengthy reply from Dr. R. B. Leighton, who put forth what we feel is the position of the physics department. Unfortunately, he and others then proceeded to condemn the editorial as "vague" and non-statistical.

What the **Tech** attempted to do in that editorial was to give a voice to complaints that are present on campus, Dr. Leighton and Ben Stackler notwithstanding. These complaints are not, as some have drawn them to be, merely reflections of Caltech lethargy and lack of morale. They come from a surprising cross-section of people. They do not merely represent a group of disgruntled students who are incensed about their grades. A frequent remark is that they learned far too little, that they failed to obtain that classical background that is so necessary for spiritual growth in the physical sciences.

In looking back upon the experiment, the **Tech** admits readily that it did teach some people a lot and did interest most in the material. What it failed to do was give the majority of the class, non-physicists for whom this course will probably be their last, a firm grasp of the application of physics, the ability when faced with a problem to apply the correct principles and arrive at a reasonable answer.

As for what the course is now, we cannot say, having managed by hook or crook to pass. But it is still interesting to look at what occurred third term last year in sophomore physics. The Physics Department apparently felt, and with some justification, that the students were getting away with something. Certain individuals were able to snake the night before the final, cool the test and get their A. So it was announced that things were toughening up, a dividing line at 25% was established for passing and the final was given. What happened? Over twenty students who had passed the previous five terms found themselves with a grade of F. Who were these that fell behind—the one night geniuses? Don't believe it! Many of "fated twenty" had worked throughout the term, had done the homework and attended the lectures but failed to reach that mystical dividing line that had been predetermined.

Well, it's all water under the bridge. The course did succeed in its goal—to provide interesting material and "a truly first-rate physics course." But in the process it cheated many of the students, mostly the non-physicists, who needed a more fundamental and classical approach to the subject and perhaps were too interested elsewhere to capture "the excitement . . . of those formative years."

Now that the **Tech** has presented what it felt were pertinent complaints, what have we to suggest as an improvement. Perhaps what is needed is a dual physics course—separating at least for the second year. Such a system has been instituted at Rice and other places with similar success to the Math 1-1.5-2 program here. The **Tech** leaves the subject at this point but will welcome any further comment.

—Don Green  
J. C. Simpson

## Dig Deep

Although student donations make up only about 5% of the total YMCA income, prospective donors have a tendency to measure student interest to some extent by the amount of student financial support. Consequently outside donations seem to rise or fall as student donations rise or fall.

The YMCA carries on a complete program of activities to fill the void left after the humanities and science courses are subtracted from everything. It is by far the most important non-Institute source of culture, education, current events, knowledge and controversy on campus. Without its efforts for the students, life at Tech would be a great deal more dry and boring than it is now—a sorry state which is nearly impossible even to conceive.

We feel that the Y deserves all the generous support possible in its single attempt to raise funds for this year.

—J. C. Simpson  
Don Green

## California Tech

Editors-in-Chief

J. C. Simpson, Don Green

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## Letters

## More Letters in Regard to Physics Course

Editors:

A Philosophy of Education:

When snow clogs a mountain pass, it does not **mean** to do it: it is just its nature to keep right on snowing. Many people like snow even when it blocked them. And when ideas come fast to a man, he usually imparts them fast, as in a blizzard: it is just his nature to move fast mentally, and we value him for his agility. However, to get over the mountain after a heavy snow may take a lot of shoveling; and to catch up with the fast lecturer or try to pass him may take lots of digging. (You will note that I do not say shoveling!) This is not so hard when you have power tools, the kind issued to upper classmen. But if you have to do it by hand, it takes longer. You may even have to wait until a thaw in Junior or Senior years (assuming you get that far) before you see over the mountain into the green fields three degrees beyond.

The moral of this tale is: it isn't the depth of the snow, nor the difficulty of ideas, that matters so much as the pace demanded to dig through them. If you drop your shovel you may find yourself snowed.

Old Timer

## Dabney Speaks

Editors:

It has been painfully obvious over the past two years that the physics curriculum at Caltech is in a state of flux. It is also recognized that progress in any

curriculum necessarily entails friction for all concerned, students and faculty alike. However, some general comments should be made on what appears to be the attitude of the physics department in this whole controversy.

There is an ominous note in the recent statement of the Physics 2a lecturer that those students who received a score below a certain point on the midterm should seriously consider their career at Caltech. It seems that there is an unfortunate trend to skim the "Feynman half-dozen" from the top of any group of students in a required physics curriculum, and to actively discourage the lower third by concentration and scope as well as emphasis of certain advanced theory. A pertinent observation is that the top one percent of the national group of students is presently studying at Caltech; in a required course, should we again reduce this group by a large factor? In the writers' opinion, this attitude extends beyond the required course; their impression is that the physics department feels hampered by too large an enrollment, and has consciously or unconsciously created a course which will soon alleviate this problem. Naturally, there must be progress in advanced curricula to keep pace with the changing level of preparation of high school graduates, but must this entail a discouragement of many capable, but not peak,

physics students in the meantime?

It is clear that one must agree with Dr. Leighton that intellectual morale and spirit are important to the proper academic atmosphere, and that an active interest and curiosity must be maintained for the system to be effective. However, it might be useful to note that the anti-intellectual attitude that Dr. Leighton sees in the students, the lack of "intellectual school spirit," need not be entirely the fault of the student body, but might be due in part to the system. The opportunity for true learning comes with the opportunity to reflect and explore; under a deluge of highly-complicated and diverse information, and concomitant work load, time for this process is scarce. With reference to self-fulfilling prophecies, the physics department might well consider that a sharp increase in material because of apparent disinterest will increase that disinterest due to the utter impossibility of absorption of that material. Students are human too; they wish to be able to grasp one concept before proceeding. To push them faster is to cut them adrift.

George Brackett, '65 Ph.

Roger Davisson, '65 Ph.

Paul Swatek, '65 Chem.

John H. Simpson, '66 ME

Chris Dalton, '65 Chem.

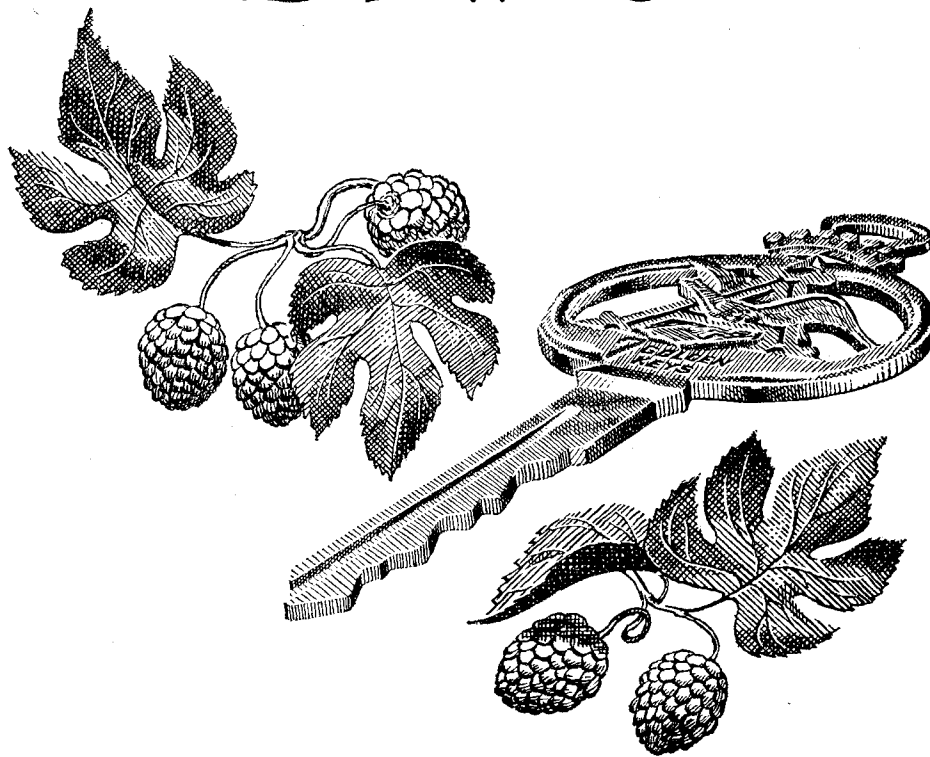
Clem Chase, '66 Ge.

Steve Elliott, '66 Chem.

Earl Reiland, '66 Ph.

Harold Moeller, '65 ME

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## By The Sea

## Asilomar Will Consider Action

BY VIC SIRELSON

Held under the auspices of the Pacific Southwest Student YMCA and YWCA, the Asilomar Conference will be held from December 27 to January 1. It will have a dynamic group of leaders experienced in various areas of student and social concerns. Each evening Dr. Roy Nichols will speak on the conference theme, "Demands for Significant Action." In the morning seminar groups concentration will be in specific areas with a small number of fellow students who are interested in similar questions.

Seminar #1—"Dialogue on Life Commitments" will be led by Dr. Herbert R. Reinelt, professor of philosophy at the University of the Pacific.

Seminar #2 or "Seminar X" will be a free-wheeling seminar for personal interaction on subjects decided upon by the group. Leadership is now being considered.

Seminar #3 — "Urgency for Racial Equality" will be led by Lorenzo H. Traylor, Assistant Program Development Director for the Youth Opportunities Board of Greater Los Angeles.

Seminar #4 — "Getting Internationally Involved" will be led by Dr. and Mrs. F. Tomasson Jannuzi. Dr. Jannuzi is the India Program Officer for the San Francisco office of The Asia Foundation.

Seminar #5 — "Dilemma of Peace in Our Time" will be led by Dr. William W. Young, professor of Political Science at Sonoma State College.

Seminar #6 — "Sex Antinomies of the 20th Century" led by Dr. R. E. Calmes of the University of Arizona, will discuss men-women relationships, questions of sexual morality, and the challenging roles of being men and women in the 20th century.

Other aspects of the conference will include the response periods, led by Thomas Lindeman of Fresno State College, when we will meet together in an attempt to make real our inner persons, our true convictions, and the greater realities that motivate our beings.

Encounter, which will be an opportunity for contact with areas of interest other than the conference theme and seminars (as well as amplification of the theme and seminar topics).

Music, in the form of the Conference Choir, and Fireside Songs.

Recreation, in many forms.

For further information, costs and possible monetary assistance from the Y, and registration procedures contact the Caltech YMCA, ext. 555.

## Snakes Lose

(Continued from page 1)

country. He studied at Washington University and the University of Chicago, and worked as a consulting psychologist at San Diego State and University of Illinois (Chicago).

## Frosh Are Different

Dr. Eell's latest attempt to preserve some semblance of sanity here has been directed at that peculiar anomaly, the freshman class; using a standard personality test, he has uncovered several species of people never before discovered in organized society.

## Read It and Weep

Dr. Weir has done more systematic work with Caltech alumni than with present students or faculty. The results of two studies of their politics, religion, occupations (one taken in 1952, and one currently in progress) are fascinating. Some interesting tidbits from the 1952 survey:

— If you are a graduate of Caltech, congratulations! You can expect to earn \$54 a year more than the average scientist-engineer-clod.

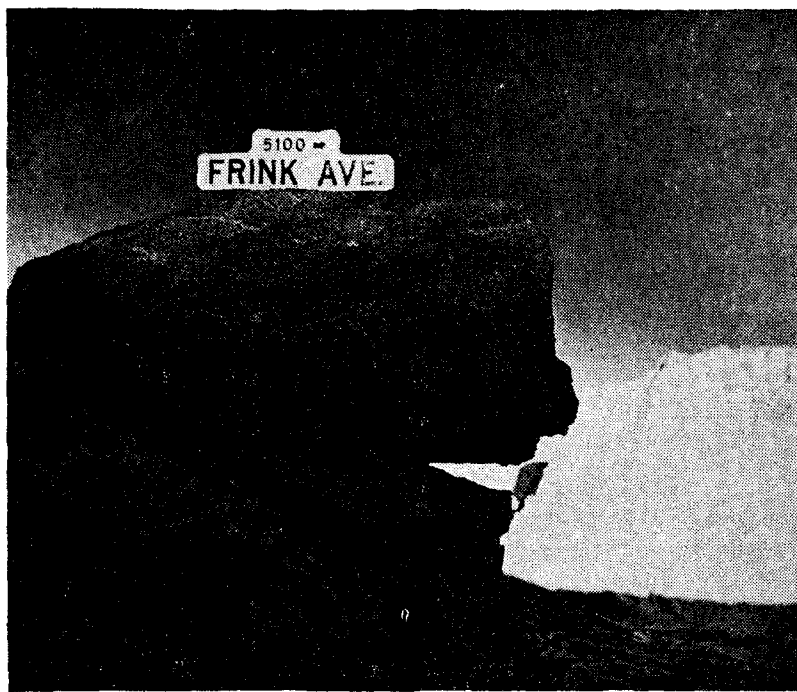
— Don't study. The man with mostly C's who participates in four or more activities will earn \$800 a year more than the fink who gets straight A's and does nothing but snake.

## Chem E's are Perverted

Dr. Weir has also come up with a number of observations on Caltech students in his 12 years on campus, to which he came after receiving undergraduate and graduate degrees at UCLA and working two years with the Veterans Administration. He feels the logical, empirical methods of thought students and faculty use in their studies have been too much carried over into social life; it is said, for instance, that many girls feel Caltech men turn them into formulae (!!!) and relate to them via their slide rules. Dr. Weir also feels many students develop certain obvious psychological problems from the absence of women on campus.

According to Dr. Weir (in a talk given Student's Day, 1960), scientists in general, and Caltech men in particular, have a fairly well-defined personality structure. They are almost always inner-directed (in Riesman's terminology) and very often (at least at Caltech) introverted. He carries his methods and habits of thought into personal and social situations to a very large degree.

Unfortunately, neither Dr. Weir or Dr. Eells have been able to account for that amazing phenomenon, Mr. Tyxwnhgm Hrtndfriknsn.



—photo by Bob Levin

Frink Ave., previously located in San Diego and Ruddock's Alley Six, has now been permanently rerouted to the top of Caltech Mountain.



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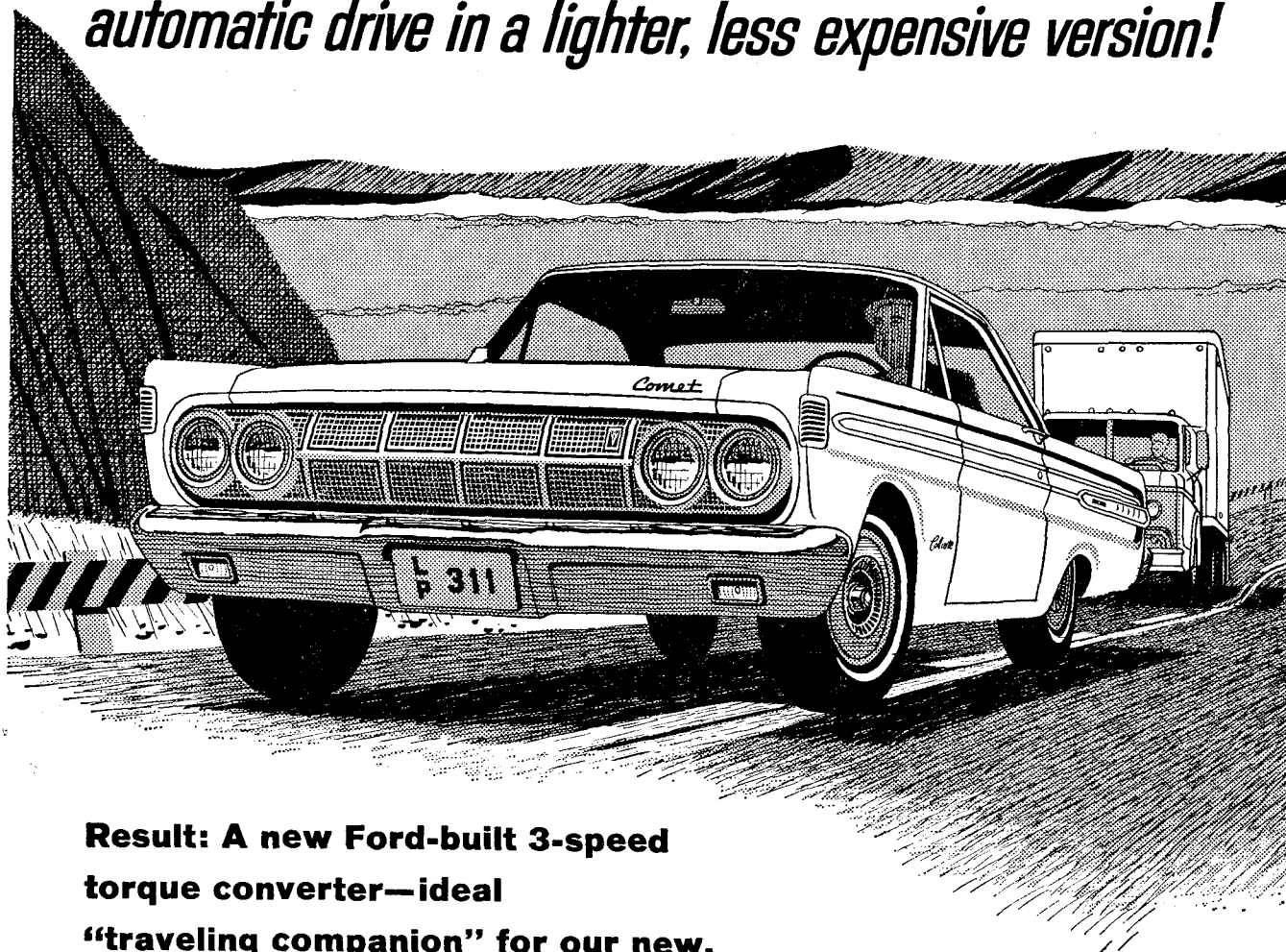
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# Helfmen Report On Conference

BY JUDI & DAVID HELFMAN

Somehow we are managing to fail our brothers. One needs only to pick up a single newspaper or hear one radio newscast to garner an idea of the ugly tensions of the world. Whatever is bothering the mind of man, he has seen fit to strike out, perhaps as a defense mechanism, against anyone who seems a likely target.

Some of those brave enough to care and act have banded together in an effort to bring relief to the problem. The Los Angeles County Commission on Human Relations and Wilshire Boulevard Temple sponsored, last weekend, a conference on human relations.

The range of delegates included ultra-activists who had populated jails all the way from Birmingham to Torrance, legislative-minded liberals, and curious neutrals seeking an inside view.

The conference served to provoke energetic and intense exchanges of ideas among those in attendance, to lend understanding of the aims of others, and to refuel the delegates for action.

Those interested in helping to lay the cornerstones for a better way of life for the whole human race, please drop a note to David Helfman through the YMCA.

## MORE CORE

(Continued from page 1)  
tion. These he termed were worse on the white child than on the Negro. He stated that when a person is told that he is either worse than or better than some other person in a group it twists and warps his mind for life. This acceptance of segregation, which has characterized Negroes up to now, has only continued this process.

### Movement Enlarges

The new civil rights movement has a new spirit for a reason, besides the fact that it is better publicized and greater in magnitude. This new spirit comes from an "I'm doing it myself" attitude on the part of the Negro. Before now most gains in the civil rights field were made by the specialists, notably lawyers. Now, most of the basic legal battles have been won, and the emphasis has switched to affirming the rights that have been won, and winning on the local level, as well as on other levels, other freedoms.

This spirit has changed the attitude of the Negro toward himself. It has caused him to feel that segregation is not inevitable. The feeling that the system would continue forever didn't encourage the Negro to object to much. Now, he sees a chance to integrate and is trying to throw off the unfair pattern. This spirit has caused the growth of the direct actions groups like CORE.

Farmer commented in the question period that he thought that Kennedy has sold out the civil rights movement, by weakening the civil rights bill that was before the House Judiciary Committee. Farmer thought that this type of playing politics would loose the President many votes in North, and would not gain back those he has already lost in the South.

In effect Farmer summed up the opinion of Negroes that are committed to the non-violent direct action movement both by conviction to its means, and to the belief of the need of developing its ends for integration and universal human rights.

# Frosh View Hoop Season

BY BRYAN STALLARD

Frosh basketball practice has been officially under way for almost two weeks. Coach Jensen has 22 men on his roster, 12 of whom regularly show up for practice.

Biggest of the budding cage stars is 6' 4", Dennis "Tex" McMahon, who will probably start at center. In addition to being able to score on the inside, he has a fairly accurate jump shot from the outside, which won't hurt the offense. Playing in one of the corners will be Herb Jubin, a 6' 1" hustler who can handle the ball, snare rebounds and play good defense. Bringing the ball up court and starting most of the plays will be Ed

Hsi's job. Also, he has a nice jump shot. Marty Smith and 6'3" Eric Young will provide needed stability in the managers' spots.

On Wednesday, November 6, the team scrimmaged Pasadena Nazarene's frosh. Because of their height advantage and because our stalwarts had only been practicing with Coach Jensen for two days, it wasn't a Caltech victory. However, we will have time to get in shape before the opening skirmish, set for Monday, December 2, against Rio Hondo at home.

On Friday, December 6, the squad will play its only other game before Christmas against UC Riverside at Riverside.

# Caltech Harriers Place Eighth In Biola Invitational Meet

The Caltech harriers placed eighth in a strong field of fifteen schools at the Biola Invitational, held Saturday, November 9, at Biola College. Caltech scored 267 points to the winner Redland's 65. Individual honors went to a Cal Western runner who ran the rugged 4.25 mile course in 22:30. Caltech men placing were: Cross, 39th; Lee, 44th; Miller, 47th; Corl, 62nd; and Lamb, 76th.

The next meet for Caltech, before closing the season next week at the conference finals,

will be this Friday against a good Pomona team. The frosh race, barring poor conditions, promises to be a record breaker, with two Pomona frosh and two Caltech frosh capable of going under the present record of 10:20.5 for the two-mile course.

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On Campus Interviews: November 22. Contact University Placement Office For Appointment.

# SPORTS



—photo by John Williams

Cal Lutheran ball-carrier is given a hard time by Beavers Evans, Dinius and Myers. Coming up fast to insure his fall are Christie and Hall.

Tech played a hard defensive game but succumbed to Cal Lutheran's passing attack.



BY J. K. EVANS

Today we will discuss the most important way to score, the touchdown. A touchdown was originally scored by running across the goal line and touching the ground with the ball. However, the requirement of touching the ground was eliminated after a tragic experience in West Bohunk, Kansas, when Alvin Potato, having crossed the line and bending over to touch the ground, had his little finger bitten off by an indignant gopher who was tired of having his living room ceiling trampled in.

## Al Nonsense

Al later sued the NCAA for damages on the grounds of physical disability and work loss (Al was a chicken plucker and he used his little finger to spread the legs to get at the pinfeathers) but lost after carrying his case all the way to the Supreme Court. In a memorable decision, Chief Justice Edgar N. Wombat found for the NCAA because it seemed that Al had actually put the ball down not in the officially designated end zone but two feet beyond its edge. But for this, Justice Wombat said in ringing tones, the court would have found for Al and awarded him a lifetime pension to make up for his disability.

(It is a matter of record that Justice Wombat was the only one of the justices who found for Al; but he wrote quite a lengthy minority opinion, but it is unfortunately lost to posterity because he could not type and the only hand-written copy is quite illegible due to the fact that he had only three fingers on his right hand, two of them having been bitten off by a gopher during a football game in his youth.)

## I Digress

However, to avoid any further complications, the NCAA changed the rules so that one merely had to cross the goal line and did not have to touch the ground. Al went back to the chicken factory, where he soon learned to spread the legs with his third finger, and Justice Wombat retired to his small cabin in the Ookabollakonga Mountains, where he spent the rest of his days trapping gophers.

# CIT Has Excellent First Quarter But Falls To Preacher Aerials

BY J. K. EVANS

Friday night in the Rose Bowl, the Beavers reverted to the standard form of Caltech football — for one quarter, they rule the world; then bloop, the roof falls in. The roof fell in with disconcerting suddenness; the Beavers were unable to dig themselves out of the ruins in time to save a game that for one quarter looked like it was going to be a long hard night for Cal Lutheran. Tech struck swiftly, as Christie racked two touchdowns in the first ten minutes. Then the offensive line gradually went to pieces. And the sad part of it is, it wasn't really their fault. Despite the loss of over half the first unit through sickness or injury, in the opening minutes the line looked as good as ever. However, since Tech spent almost the entire first period on offense, the offensive line got a little tired, and there was no rest for the weary because of the length of injury list; there was just no one else to put in. So while Cal Lutheran ran platoons in and out, the Techmen gritted their teeth and panted a little harder.

## Pass Defense Sputters

While the Tech defensive line was as effective as ever, the pass defense returned to its usual sieve-like efficiency. While

being outgained 156 to 108 on the ground, the Kingsmen racked up 141 yards in the air to Tech's 13 and scored all three TD's and an extra point on passes. CIT's ground defense was good; Jackson, Dinius, Christie, and Myers were as usual outstanding. Kampe and Rosbash, backed up by Josephson and Dahlen, were equally effective. In fact, Cal Lutheran had a total rushing yardage of —10 in the first half.

## Christie Sparkles

Offensively, the Beavers looked great in the first quarter. Good play-calling and fine running by Liebermann backed up by Christie's bulldozing gave the Beavers 107 of their 156 yards in the first quarter. Then things deteriorated rapidly. The tiring line couldn't open the holes and the running wasn't quite as sharp and everything generally went to hell in a handbasket. In the second half the offense was ineffective except for Christie and his unit standard powerhouse running, five yards and a cloud of dust. But he couldn't carry the whole team on his shoulders and he couldn't knock down all the passes, though he got several — that guy never ceases to amaze me with his fantastic defensive play — and the final score reflected the power of the pass. So despite a com-

petent defensive line, good early offense highlighted by Liebermann's running, and a tremendous personal effort by Christie, the Beavers were beaten by a lack of manpower and a lack of condition.

## The Play-by-Play

CIT took the opening kickoff and marched 75 yards for a TD in 13 plays as Dinius gained 9, Liebermann ran for 12 and 21, and Christie roared the last 9 for the score. Liebermann's kick was good and Tech led 7-0. On the kickoff, Cal Lutheran's line didn't notice the ball and Hall recovered it on their 41. From there, Liebermann galloped 25, then traded off with Christie for short gains till Christie bulled over from the 1. Liebermann booted the point and Tech led 14-0. Then followed a series of punts back and forth, seven to be exact; in the process, Dinius threw the passer for a loss of 20 and Hall was roughed while kicking, giving CIT a first down; however, eventually CL gained possession on their 41. From there, passes went for 25, 24, then 10 and the TD. A pass for PAT made it 14-8. Shortly after the kickoff the half ended.

## Second Half

CL received to open the second half and immediately lost the ball on downs. Tech took (Continued on page 6)

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forward  
to  
meeting  
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# Webmen Defeat CHM, 10-5; Lloyd Wins Discobolus In Wild Game

## Look To Coming Big Oxy Game

Traveling to Claremont-Harvey Mudd last Friday, Caltech's varsity water polo team encountered a much improved CHM team. Caltech won the game 10-5, leading all the way, but the victory was by no means as easy as the 10-1 trouncing Tech handed to CHM in the first round of conference competition. The victory was again a team effort, John Walter and Tom Crocker leading the scoring with 4 and 3 goals respectively; Rich Nielsen contributed 2 and Dave Seib 1. The freshman team again found the going rough and suffered a 21-1 defeat.

Those who were at Alumni pool last Tuesday afternoon witnessed an exciting game. Pomona College, last in the Conference, staged a determined battle and fought to a 9-9 tie with Tech at the end of regulation time. In the overtime period Tech scored 4 goals to Pomona's 1 to win 13-10. Crocker got 7 goals — 3 big ones in the

overtime period. Walter scored 3, Nielsen 2, and Seib 1. The Tech frosh dropped their game 16-1.

After the last week Caltech stands second in the conference standing with a 5-1 won-lost record. The conference race will conclude with a game Tuesday with the University of Redlands and the big game with Occidental a week from tomorrow. Both games will be in Alumni pool at 4:00. This weekend Tech travels to UCLA and Long Beach State to conclude non-conference competition.

Last Saturday, after many a false start, the Discobolus softball game between Ricketts and Lloyd commenced. The game was played in a typical wild manner, both sides committing in excess of 69 errors. The game was characterized by periods of error and frantic periods of hitting. The score by innings was 1-0 Lloyd, 2-1 Lloyd, 4-1 Lloyd, 4-7 Ricketts, 9-7 Lloyd, 10-11 Ricketts, and 10-14 Ricketts in the top of the 7th. Then Lloyd under the strong pitching arm of Slonski, and homerun hitters like Gillespie, Howenstein, Mager, Jennings, and due to poor defensive play by Ricketts pulled the game out of the fire 15-14

for Lloyd's first Discobolus win.

Strong men for Ricketts in their losing cause were McEliece, Rosenberg, Sokken, Thomas, and Randy "grand slam" Cassada. Worthy of note was the great number of Techmen and their dates who turned out to watch

the game. After the game the losers and victors turned to the beer and unattached women found along the sidelines and the ensuing orgy lasted 8 hours. Ruddock has now challenged Lloyd in bowling, to be played sometime soon.

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## Gridders Fall

(Continued from page 5)

over and tried to punt but Hall was smothered after a bad center. CL took over and after a QB keep went for 28, passed for 6, then 8 and the TD. The kick was good. 15-14. CIT received and punted. CL lost the ball on downs. Tech punted. Another exchange of punts, and it was CL's ball on their 35. Passes went for 9 and then 50 and yet another TD. The kick was good. 22-14. Tech received and drove to CL's 41, where CL intercepted a Liebermann aerial and ran out the clock.

## Interhouse

(Continued from page 1)

planetary display.

## Never Say Die

Paper mache composed of old copies of the **California Tech** and bentonite plus 3500 linear feet of wood equal one Page Interhouse. As unbelievable as it must seem, Page House has made absolutely no simplifications in its plans. As one chairman dogmatically stated, "We haven't given up on anything!"

In addition to the hot springs, bubbling mud pots, and geyser, which spouts 30 feet into the air using B&G steam piped from the basement of Lloyd, the punch bowl will be filled by stalactite drippings.

In a revised estimate Ricketts House indicated they will only use "8 tons of genuine snow." Snow cones, they hasten to add, will not be served as refreshments, and the "mountain stream" has diminished to a bubbling trickle.

The Blacker Interhouse, depicting a landing upon an alien planet, will be highlighted by a giant red star suspended 40 feet above the flooded courtyard. Below in a bizarre swamp complete with appropriate monsters will rest the landed paraglider, which has sent out (a remote-controlled) "unmanned exploratory vehicle."

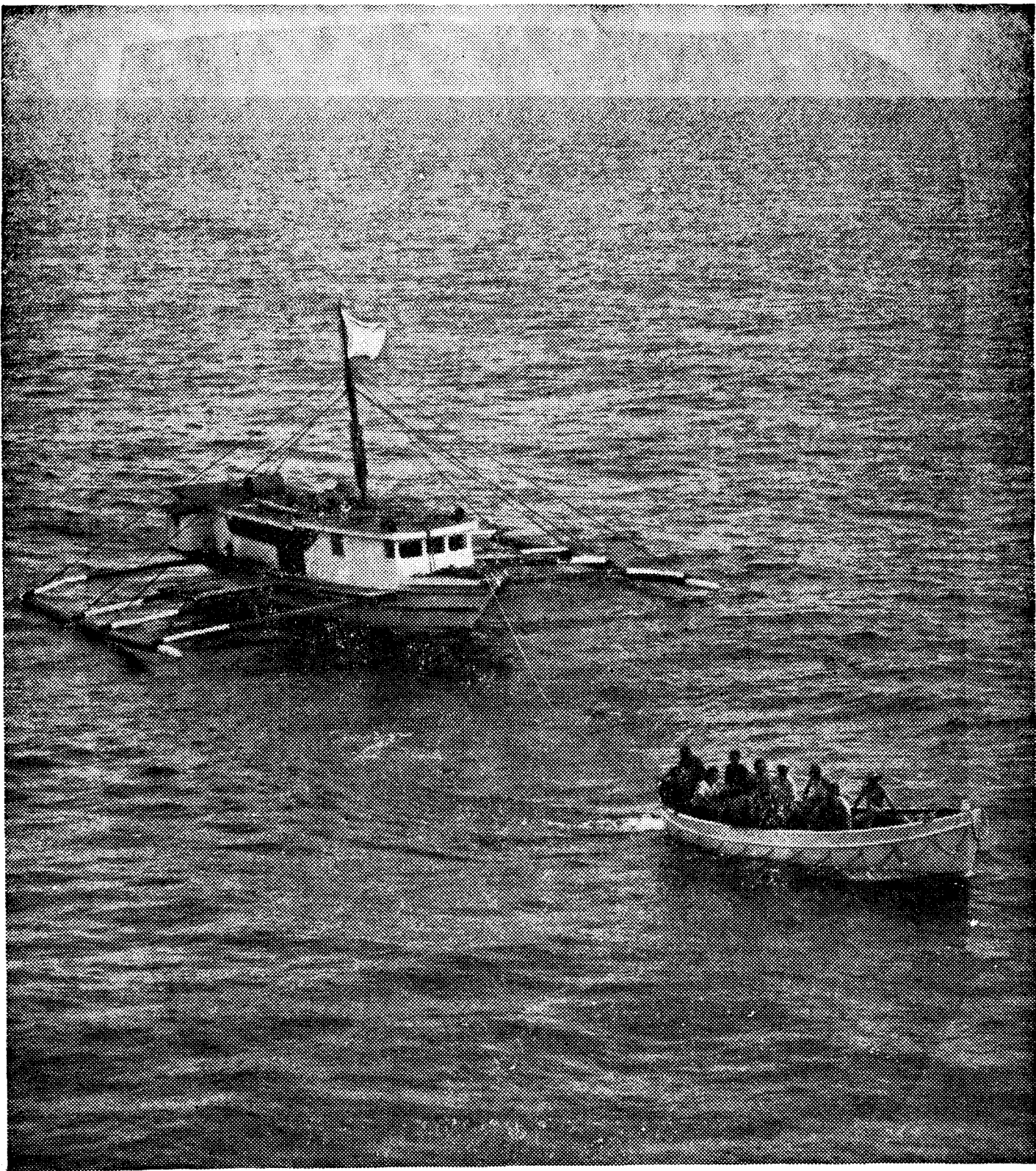
The swamp monster, a large erect biped with a 7,000,000 candlepower eye and six tentacles, is most impressive, even if it was copied from the cover of some science fiction anthology.

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## Engine trouble, and not a service station in sight

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that our tanker almost missed it!*

Far out in the Sulu Sea, beyond the direct ship lanes, the little *Ermedita* ran into trouble: a shattered crankshaft. The captain and some of the crewmen left in small boats for help—but help never came.

Seven days had gone by. There was no radio, just a white flag fluttering from the mast. Not a ship had passed. Supplies were running low. And hope, too.

Aboard our tanker, outbound to Sumatra, a lookout thought he saw a flash of white on the far horizon. The captain altered his course to investigate.

They found seven shocked, tired men, took them aboard, gave them medical care, and towed their stricken vessel to the Philippines, saving their means of livelihood.

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