Megawatt Xformer Burns; Three Mice Blow Minds

A failure in the electrical transformer system of Caltech's Physical Plant resulted in an interruption of compressed air, steam, hot water, demineralized water, and chilled water to the entire Caltech campus early Christmas morning.

The 1,000 kilowatt transformer blew out at 2:51 a.m., according to O. M. Hardage, senior engineer of utility service of the Physical Plant, the cause of the failure has not yet been determined, and that any number of causes, including "plain unadulterated poor workmanship," could have been responsible.

Hardage estimated the cost of replacement of the unit at $18,000.

Dr. Harold Brown Talks About Caltech's Future

by Joseph Rhodes

During a recent trip to Washington I had an opportunity to visit Dr. Harold Brown, our newly named President and presently the Secretary of the Air Force. I was asked by the editors of the California Tech to ask Dr. Brown a few questions. He was kind enough to discuss those questions with me and invited me to his Pentagon office. The interview was held on December 19 for about an hour in Dr. Brown's office. A report of Dr. Brown's answers to the questions prepared by the Tech editors should accomplish the desired

Q. Do you think Caltech should make special efforts to increase minority admissions?

A. Our first move should be to get the local area schools together and determine a proper program.

Q. Should the Caltech Academic atmosphere show an increased emphasis on humanities and social sciences?

A. For science and technology to find their full expression they must be properly set in a context of society. I foresee some changes in emphasis.

A. (After a short talk) I'm all for the decision to admit women to the campus. That certainly reflects a proper desire to be in a more normal environment.

Q. What do you think about secret research on campus?

A. It doesn't belong on campus. The University community should be open to properly be set in a context of society. I foresee some changes in emphasis.

Q. What do you think of the present draft situation with regard to students?

A. A lottery system would be better.

Q. Do you see yourself as an innovator or a mediator?

A. If I had to classify myself as one of these types, from my experience and personality I would describe myself as an innovator.

Military-Industrial Complex

Q. What should the relationship of the Secretary of Defense be?

A. The campus community should accept grants with no strings attached. The bulk of research grants should be non-defense. Remember, the seeking of research grants is largely a faculty matter.

Q. What do you think of the present draft situation with regard to students?

A. A lottery system would be better.

Q. Do you see yourself as an innovator or a mediator?

A. If I had to classify myself as one of these types, from my experience and personality I would describe myself as an innovator.

I plan to spend a lot of time at first just listening, through small groups and large groups of faculty and students. I don't, however, plan to establish committees to formalize this.
Page Two

Editorial

Plea for Unity

Our fellow Teckers: Come, let us reason together.
The enemy decreases to the size of a flea when we stand together.
Thus, having been spared the threat of unionization, we have the opportunity to prevent some day darker, more dangerous shadows from menacing us.

For one thing Teckers are going to attempt to perpetuate the frenzy of the Rose Bowl Game, illustrate two facts of life about Caltech.
The first is that Teckers who have achieved good movie roles are usually as bad at acting as the worst criminals.

The portrayal of "George" Chilcote, often seen in "The Front," the hard image of an old-time movie star, is a case in point.

A second fact about Caltech is that Teckers who have achieved good movie roles are usually as bad at acting as the worst criminals.

The Front, a movie about lesbians, is a case in point.

Therefore, I urge some student to take upon himself the task of coordinating Tech's efforts to prevent some day darker, more dangerous shadows from menacing us.

We have heard rumors that such an organization is being organized. Watch next week's Tech for the notice!

Jim Cooper

Alon Stein

Dave Lewis

Towering Eyeful

"George" Is Knocked Up

by Alan Stein

This year, it is "hit" to produce a picture with the title "George." Unfortunately, it is not "hit" to produce a picture about lesbians.
The producer of The Killing of Sister George has attempted to do exactly that.
The movie deals with the collapse of a "mystery" between June Walker, a man (played by Allyn Feld) and Alice "Chilcote" McNair (played by Elizabeth Taylor).
The relationship between June and Alice has been poor for some time. When George finds that she is being written out of a TV serial she stars in, the relationship falls apart entirely.
The portrayal of this collapse should be very moving. It isn't.
The failure does not seem to be the fault of the two stars, both of whom are accomplished actresses. Rather, the fault seems to lie with the parts given to the ladies. June is not talented, but her performance is far less moving than that of Miss Haid's and Miss Sany's acting from the beginning. The initial relationship between George and Chilcote is quite well described but by the end of the movie, one has no feeling whatsoever for the characters which are so emotionally portrayed.

I feel that a more talented scriptwriter could have produced a very moving screenplay. The story is a real emotional potential, but this was destroyed by the unimpressive characters.

Some credit should be given to the actors. It is the best of its kind. But in this case, just as in any other, it is the fault of the movie itself. A similar relationship between June and Alice has been poor for some time.

Letters

Perasso OK's Faculty Group On Pollution

Dear Editors:

In the December issue of Engineering and Science, Dr. R. C. Arp invited any interested members of the faculty to join him in an informal discussion on the problem of air pollution.

It is my opinion that a well informed faculty group could contribute much toward the solution of the air pollution problem.

Public hearings will be held on allowing the Los Angeles Power Department to construct an incinerator for burning trash in the Los Angeles air basin. Hearing members are unlikely to determine whether or not the federal government will allow the Los Angeles Power Department to continue its operation, but the public's participation is essential to determine what the facts clearly and simply at the public hearings.

Also, this group could study other steps that should be taken. There is a need for enlightened legislators, making valuable suggestions to legislative bodies. This would be followed up with testimony given before legislative subcommittees, articles in newspapers, television appearances, and contacts with faculty outside the University.

Jim Cooper

Alon Stein

Dave Lewis

"Minsky's" by Nick Smith

"One of the best restaurants in this city," said a member of the staff of a fashionable restaurant.

"That's funny," said the member of the staff of the same restaurant. "The best restaurants in the city are the ones with the best food, and the best food is Chinese."

"That's true," said the member of the staff of the same restaurant. "The best food is Chinese, and the best restaurants in the city are the ones with the best food."
Fault Forecast for Fun and Profit

by David Levin

Recently a book came into my possession. It was a treasure trove of recipes for the most delicious meatloaf that I've ever tasted. Or at least it was until I tried one of the untried ones. This book is *College Cookbook*, or *Al-Fre­ scouring for recipes that are easy to do in a hurry.  

The book was inspired to their put their book together by the questions of Berkeley students.

Beckman Opens With Plays By British Bards

For its opening event of an exciting new series at Beckman Auditorium, students were treated to contemporary British plays by contemporary British playwrights Harold Pinter and N. F. Simpson, will be performed, on

**Workpage**

Towering Mouthful

A section on how to store meats and vegetables is invaluable, as is a gardening of cooking terms is another aid, and the book includes tips (up to 1000) for the amateur. Among the most of the seasoning patterns for meats and vegetables, especially with one exception. The authors tend to put names in dishes, and these may be a bit strange, especially their stuffed green peppers, which they call "timbale." After the last recipe, my Syrian landlord objected strenuously to raisins in any dish. However, this book is well worth the money. It is packed with a rush right out and stay, borrow, or pilfer a copy, but re­

**Minksy** (Continued from page 2)

but many changes were made after Bert Lahr died during the filming of "Minsky's." In fact, he was not even aware of the story line to be cut abruptly, due to losses in which Bert Lahr would have to have appeared.

See Minsky's. There have been better movies put out this past year, but none quite like this.

**Rose Fusc Ruse** (Continued from page 1)

manager Nick Sylvester with the help of one of their young pro­

Students were tempted to do the same

The College of Caltech students were not afraid to try.

This is all happening despite claims that federal spending for education in the fiscal year 1976 was the most that could be lenient, to be lenient, for all they had done, they "honestly believed without further in­

Delino reported that the score­card should have been "a very little physical damage, but that's different. He also said, however, that the Instal­

This is all happening despite claims that federal spending for ed­

Fleming said that as far as he knew having been made for this fall that same year. — surrender were 20 to 25 percent, from the amounts the institutions thought they would be allowed to spend.

The National Institutes of Health are required to award new grant­

FEES TO ATTEND. Please call

the regular option, which will be

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**Page Three**

Faucit Forecast for Fun and Profit

Movement of the ground along a major earthquake fault has been successfully predicted for the first time at Caltech. They also forecast that the fault will move again next spring.

The researchers have discovered the secret of movement along a restless section of California's San Andreas fault occur quite regularly. They say the next movement will probably come in the first eight days of April.

"This does not mean, however, that we can predict earthquakes," emphasized Max Wyss, a graduate research assistant in geophysics.

The model he and his colleagues produced predicts the movement, the gradual movement that may occur along a fault, usually over a period of years. It is not the sudden, violent displacement associated with earth­

**Fauci Forecast for Fun and Profit**

The object of study is the San Andreas fault. Land on the west side of this fault has been moving north in relation to the east side. With motion per year for millions of years. The stress caused by this movement has built up the fault until it can slip. This stress was relieved when rock layers break and slip—results in earthquakes, some as large as the disastrous temblor that struck San Fran­cisco in 1906.

In a report on earth move­
men­tions that the faults are now showing movement of about two centimeters per month and are within three centimeters of the fault line. The model was only accurate to within a thousandth of a millimeter every few years.

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Fault Frolics (Continued from page 3) were found to occur toward the end of the microfracture zone.

Independent Process

"From these observations," Wyman said, "we concluded that the aftershocks and creep are almost independent processes relieving stress on an existing fault.

"We believe the creep episodes are certainly not entirely the result of the aftershocks, but if a correlation between aftershocks and creep episodes is possible, it is likely that the shaking during an aftershock triggers the release of stress in the creep layer.

"It is quite a real possibility. The April 8, 1969, earthquake at Borrego Mountain in Southern California serves to illustrate this point. The shaking during that earthquake seems to have caused an increase in faults miles away from the earthquake epicenter. It was the first documented case in which the earthquake produced movement on faults miles away.

Soccer Sockers Reap Win

Good Virus

Good Doctor

Why Is the Table Spinning?

An experimental ultra-steady experimental table—measuring micrometers, microscopes, television equipment, and optical equipment—will now be used for flow blood-flow studies at Caltech.

"Our main goal with this new instrument," said Dr. Harold Wayland, "is to take a close look at the microscopic circulation of blood through living tissue and artificial systems.

Wayland, professor of engineering, said his 3,500-pound instrument was developed in a joint venture with the Los Angeles Heart Association—University of Southern California cardiovascular research laboratory.

New Rheology

"We specified a table of this size and weight because we require that it be extremely steady, and we require that it be extremely steady, and we require that it have a minimal requirement for making four aces.

In playing the hand you must realize that you have two cer- tainly certain rules: (1) you must follow the finesse, and (2) you must follow the finesse. The finesse must be tried at least once.

The finesse was tried and the king wins. This can be done if clubs are split three-two, if the club finesse wins and you can drop either a doubleton or the finesse. If the club finesse wins the hand can be played in a laboratory, and there is still time to take a safety play in trumps. If the finesse loses, a heart will come back and make it, leaving nothing outside of the suit for an entry.

So the club finesse must be tried upon winning the hearts lead. You must lead queen of clubs for the finesse. In the hand shown above, it makes no difference, but if East has something like K 10 x x in clubs, leading the queen is the only winning play.

In the hand shown above, after the finesse loses, a heart is returned and the king wins. And you have a three-card hand. Then a club finesse split and a three-two trump split to make thirteen. The ace and queen of spades are cashed, then the ace and jack of clubs. Now you have a spade entry to the trump hand. This is an entry to the trump hand. But if you took this line of play, you would have received eleven out of a possible twelve points, for making four aces.