

Do Not Do Unto Others  
as You Would Have Others  
Do Unto You. . . .

# The CALIFORNIA Tech

Copyright 1970 by the Associated Students of the California Institute of Technology, Incorporated.

Their Tastes Might  
Be Different.  
—G. B. Shaw

Volume LXXI

Pasadena, California, Thursday, February 12, 1970

Number 17

## Peace Corps to Visit Campus; PME Announced

by E. Gansner

The current activities at the Caltech YMCA, per usual, cover a lot in time and in subject. One event, a student-faculty dialogue, is under way, and some are in the advanced planning stages, especially the PME and the visit to the campus by several Peace Corps recruiters.

Presently, two student-faculty dialogue committees are meeting, one on Tuesday night, the other on Thursday. Each group consists of about nine active students and several faculty members. It is hoped that through these groups an interchange of ideas will develop on what is liked and disliked at Tech, on both the student and the faculty side of the fence, and what means are applicable to bringing about desired changes.

### Corps Coming

Planned by the Y for the week of February 23 is a week-long visit by Peace Corps recruiters to the campus. They will be principally from assignment in India. An Olive Walk Talk will be held on Tuesday, and they will be holding a seminar in Winnett every afternoon from one until five. These activities are planned such that the recruiters will get to meet and talk to as many Techers as possible.

The Peace Corps members also plan to show a movie on Wednesday and Thursday, both at noon and at 7:30, in Clubroom 1 at Winnett. The movie is entitled "Not Enough," and basically deals with India, Thailand, and Southeast Asia, and with the US foreign policy concerned with the region.

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## News Briefs

# BOC Changes; Candidates' Statements

### Concern Over New BOC Rule Beginning to Crystalize

Suggestions for how the BOC should handle non-academic and relatively minor Honor System cases have boiled down to a few concrete proposals in the last few days. The idea of a sub-board of some sort seems to have been dropped, while ideas involving the Board itself have proliferated.

The original suggestion had the Chairman and Secretary of the BOC write a letter to the person involved, which would have gone into BOC files for seven years. Although the basic idea of a private letter has been retained, several other proposals modify some of the other details. For example, one proposal has the BOC sitting in groups of three representatives rather than *en banc* for minor affairs, with a letter sent but not put into any kind of file.

To date, no definite action has been taken that we know of. The Board wants more discussion of the matter, and perhaps individuals or groups talking with their House Representatives would be the best way.

### Candidates: Take Notice! Statements Are Due Saturday

Candidates for all ASCIT offices

are entitled to have statements appear in the *Tech*. A special section of next week's issue will carry pictures and statements. Hopefully, our photo staff will have already contacted all involved, but if not, please see John Fisher in Ricketts immediately.

Written statements should be turned in on Tech copy sheets by Saturday night. Because of space limitations, please try not to exceed 450 words (about 15 column inches). All statements received on time will be printed. We recommend that you stop by the *Tech* office Monday or Tuesday night to proofread your statement.

### Remember the Sing! Rehearsal Time Flies

With Interhouse Sing only two days away, rehearsals will undoubtedly be coming fast and furious. Last minute queries should probably be directed to Tom Noyes, R.A. in Lloyd.

Start your warblers, gentlemen.

### Coming Attractions Department Or, See Next Week's Issue

Coming up next week, the *Tech* has a few items of some interest:

1. A review of the Vienna Choir Boys' performance yesterday in Beckman;

2. All campaign statements (see above);

3. Information for all House elections; and

4. The usual collection of articles and columnists.

### YMCA To Start Own Little Brave Program?

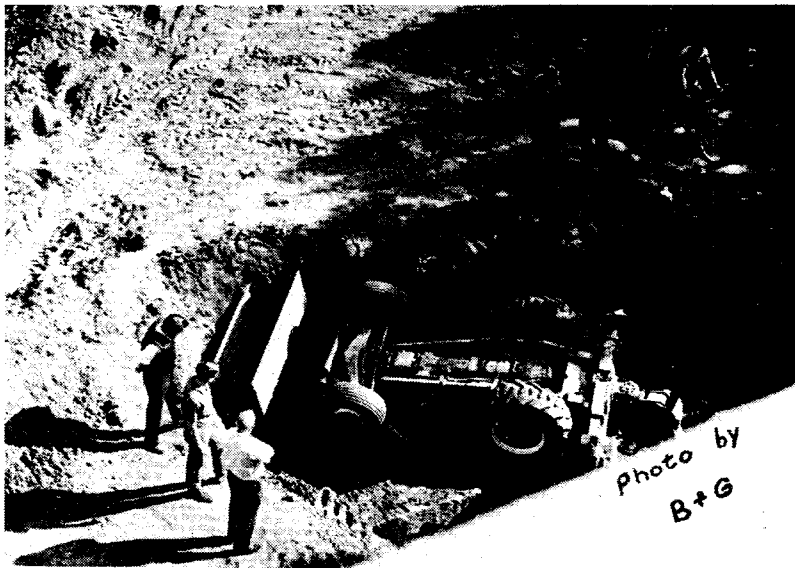
There will be a meeting of those Techers interested in the YMCA Little Brave Program tomorrow, Friday, at 12:30 in the Ruddock House lounge. Mary Weibe of the Pasadena Y will be there to fill us in on the details of the program to help fatherless boys from the Pasadena area.

### Drive to Abolish PE Requirement Continues

The efforts of many students to have the PE requirement eliminated now rest somewhere between the EPC and the faculty. Just where the drive is headed remains uncertain, however.

The main objections to the PE requirement appear to stem from the arbitrariness with which many students feel the PE program is administered. The strict attendance rules and insistence on an hour of

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The Turtle, shown here on its back vainly struggling to get out of the hole into which it somehow made its way. A friendly crane finally rescued the embarrassed turtle. —Photo by Neches

By St. George!

## Tractor in Booth Hung Up

by Paul Levin

Friday morning a backhoe fell into the excavation for the Booth addition. Fortunately the operator jumped clear of the machine before it assumed its new stance: upside down, wheels flush with the ground. Had there not been a concrete support dividing the hole, it would have fallen quite a bit further.

By 2 p.m. a crane had been procured and its operator was finished with his lunch hour (at Hi-Life?), so the rescue operation began. There had been some speculation that the crane, too, would fall in, but it was so large that it would not have fit, even with the backhoe and support removed. The rescue took all of ten

minutes and was followed with resounding cheers, applause, and a few shouts of "encore!"

In these days of great scientific and technical advancement it is comforting to know that someone other than B&G is trying to return us to the dark ages.

## Awareness of Environment Conference

## Slated for Early March; Carpool Forming

On March 6-8, 1970, a weekend conference on careers, education offerings, and opportunities for personal involvement in air pollution control will be held at

## Research Project Not Dead

## ASCIT Still Has Debt

## ASCIT Nominations Closed; Seven Run Unopposed

by Phil Neches

The Research Center is resurrected (almost). Long live the Research Center.

The BOD voted Monday night to approve a proposal for "An Ecological Study of the Automobile in American Society," provided that it be carried out under the auspices of the Research Center. Also, the BOD decided that it would have to give final approval of the project when funds are either assured or imminent.

### Owes Institute

Also, more detailed accounting on the Research Center discloses that even allowing for transfer of funds between accounts, the Center has almost \$5,000 in debts. Most, if not all, of the debt is owed to the Institute for such items as telephone bills and airline tickets. Some informed sources have indicated that transfer of funds between accounts could conflict with the

contracts under which the funds were originally obtained.

In other action, nominations for ASCIT offices were closed. Campaigning began at dinner Wednesday night, and will continue until Election Day (Friday, February 20). Candidates' statements are due in the *Tech* office Saturday night (February 14)—see "News Briefs" for more details.

### Apathy Strikes

Four offices have individuals running unopposed; three others have teams running unopposed. A list of candidates follows:

President: Phil Morgan, Bob Fisher; Vice-President: Leonidas Guibas; Secretary: Wes Munsil, Ben Barker; Treasurer: Terry LA Grone Bob Siegfried; IHC Chairman: Con Smith, Steve Bankes; Director for Academic Affairs: Lorne Shachter; Activities Chairman: Paul Sand.

BOC Secretary: Dave Green. Director for Student Life: Paul Studenski, Alex Seita, Andrew Wardrop. Directors-at-Large (2 to be elected): Doug Duncan, Alex Wilson, John Brown, Greg Sharp.

### Team Up

Social Chairman: Team of CRAI Broskow and Doug Fay. Athletic Manager: Team of Max Kay and Ron Horn. Editors of the *California Tech*: team of Phil Neches, Ira Moskatel, and Paul Levin.

## Inside the Tech

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What You Can Do

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3 in a Row

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Tears

Page Seven

## Page Eats It Faster!



Not even the voracious appetites of Page House proved equal to the task of dispatching two large Roma Garden's pizzas each; however, they fared better than any of the other teams. The winners received free dinners for themselves and their dates at Roma Gardens, and one delicious case of heartburn each.

—Photo by Belscher

Editorial

You Get What You Pay For

Now comes the seasonal editorial. You probably already know what it will say, because you have worked so hard to bring it into existence again.

In the words of the business optimist, "You get what you pay for." In the words of the business cynic, "You sure pay for what you get."

The same holds true for elected officers. In the words of George Bernard Shaw, "Democracy is a system of government which insures that the people get exactly what they deserve." If you have been unhappy with ASCIT, or the *Tech*, or anything else around here, remember that you have gotten exactly what you have paid for in terms of the success (or lack of it) on the part of ASCIT, your House, the *Tech*, or anything else.

Conversely, the results to you and the effects on you of the officers you have elected in the past are in direct proportion to the thought and consideration which went onto your ballot. If you are dissatisfied, the most logical person to "dump on" is yourself—not some disembodied "them" who have done these things to you.

The fault, if you wish to find fault, is yours, is ours, for not either being more interested or more careful. If you feel that the candidates on the ballot do not appeal to you, the fault is yours for not either finding someone you believe competent and persuading him to run or running yourself.

Only when we all participate will participatory democracy become anything better than a farce, and only then will we have leaders consistently worthy of the title, rather than the present disorder.

—Philip M. Neches  
—Ira D. Moskatel

Throop Beat

IHC Action Disappointing

by Etaoin Schroedlu

The parking problem is being recognized by the Institute. A Planning Committee has been formed to think about campus parking facilities and the future thereof. Dean Wood, who is on it, says that the Committee, when it commences meeting, will discuss additions to the current supply of parking as well as more efficient allocation of the present facilities. The forms being considered for new spots are flat-land, elevated parking structures, and underground parking structures, in increasing order of cost. Among the possibilities to be considered for reallocating present facilities is the idea of hunting permits, graduated in cost as the lot for which the permit applies becomes more desirable to park in. These ideas are tentative, not final. If you have anything to say, say it to Dr. Wood and the Committee.

**That Time of Year**

It's ASCIT time of year again. Step up and watch the n-ring circus. Lots of offices still up for grabs. (And we wonder why ASCIT officers are incompetent so much of the time.)

Don't forget the appointive offices either. Some of them are available as well. The *little t*, to the best of my recollection, has not been staffed yet, although it should have been. The Class of '70 has put out three issues in a row; now it's someone else's turn.

**Cabbages and Kings**

The IHC statement in our issue last week was rather disappointing in some ways, although their policy requiring "Implicit consent" is a step in the direction of civilization. I was unhappy to note that the account did not include mention of the entire statements made by the *Tech* witnesses in defense of the editorials printed on the subject. The source of some of our information was Nick Smith, and when I suggested that Nick be called to present his information in a coherent way, I was told "We can't keep meeting on this forever." I can't quibble too much, though; at least somebody tried to find out what happened.

**So They Tell Me Dept.**

Prepare for n pages next week: the *Tech* is running campaign statements next week. Ask your friendly Food Service to provide appropriate receptacles. . . . A real-live ecology movement is forming up here at Tech; the articles we've been running don't lie. If you're interested, get involved. (See? There really are things to do around here.) . . . So far as I know, there still aren't any plans to put a burning cross on top of Throop for Easter. . . . Anybody out there enjoy typing, layout, paste-up, etc. (for free of course)? We would like to see you. (Hint, hint.) . . . Kudos of the week to the CIT basketball squad for winning a conference game the other week, the first win in a long time over a conference foe. . . . If you think you could help with a parody of *Scientific American* for the *Hot Throbbing Rivet* this year, please let us know. We're tentatively considering the possibility of investigating the chances of doing one.

Soul to Strike

O.C. Coming to Beckman

by Pearl Fles

The dynamic and soulful sound of singer O. C. Smith will be heard soon in Beckman Auditorium. Two performances are scheduled for 4 p.m. and 8 p.m. on Sunday, March 1.

"O. C." was with the Count Basie organization for three years and has toured thousands of miles including five trips to Europe and all over the United States. His many recent television guest spots include NBC's "Lena Horne Special." Her request for O. C. included the statement: "If we can't get O. C., forget the show."

A graduate of Jefferson High and Los Angeles City College, O. C. Smith started singing during his four year hitch with the United States Air Force where his singing was so well received, that he decided to sing professionally after finishing his tour of duty.

For the March 1 concerts, O. C. will be accompanied by the provocative, enticing rhythm of six enormously talently young musicians called "The Soul Cadets."

Wright & Logan

Pursuing the C.O. Status

*Warning: To the best of our knowledge, all information in this column is accurate at the present time. However, judgements by the courts or changes in the Regulations occur often. A counselor or lawyer should be consulted before taking any action that will affect your Selective Service status.*

**Requesting Form 150**

Series VIII on page 4 of the *Classification Questionnaire* (SSS Form 100), which is sent to the registrant soon after he registers, provides the registrant with his first opportunity to indicate officially that he is a CO. It reads "I claim to be a conscientious objector by reason of my religious training and belief and therefore request the local board to furnish me a Special Form for Conscientious Objector (SSS Form 150)." Selective Service regards CO claims made after the Questionnaire has been filed as "late" claims. Local boards will often ask an applicant for conscientious objector status why he did not make a "timely" claim, and tend to be suspicious of claims filed when termination of deferment is imminent. There is a direct correlation between the early filing of Form 150 and the likelihood of recognition when one's claim comes up for consideration. One who does not sign Series VIII is in effect telling the board that he is *not* a conscientious objector. This of course does not mean he cannot become one and apply later.

Persons who file their Classification Questionnaires without claiming conscientious objection may request the special CO form (Form 150) at *any date (even after an induction order has been issued)*.

The Special Form for Conscientious Objectors will be mailed to all registrants who sign Series VIII of the *Classification Questionnaire* and to those who make a later request for it. It should be completed and returned within thirty days of the date it was mailed to the registrant (the board may specify a shorter period if the registrant has been issued an order to report for induction).

The answers the registrant gives on the Form 150, together with the material attached to it (letters of support, etc.), form the basis for the local board's decision on the CO claim. The questions on the form are difficult to answer: the registrant should think out his answers and collect the material he wants to send in before requesting the form. Sample copies of the form are available at most draft counselling centers. In addition, it would be extremely advisable to obtain and read the *Handbook for Conscientious Objectors* (\$.95, World without War Council), both also available at draft counselling centers. The help and advice of a counsellor experienced in CO cases should be sought.

**Re-opening before Induction Order**

Most large states (including California) require a local board to re-open a registrant's classification (thus re-establishing his appeal rights) if he files a CO claim before he is issued an order to report for induction. Many other states, however, refuse to follow this policy. Recent decisions of Federal District Courts and Courts of Appeal throughout the United States suggest that such refusal is illegal.

**Re-opening after Induction Order**

California State Headquarters requires that it's local boards meet and review a CO claim even if the CO claim was made *after* the registrant received an order to report for induction, as long as the Form 150 is returned to the local board before the date set for induction. If the board has no regularly scheduled meeting before the induction date, it must either arrange a special meeting or postpone the registrant's induction until after it has considered the claim at a regularly scheduled meeting. The postponement is much more likely, especially if the induction date is only a few days away. If the local board determines that there has been a change in status resulting from circumstances over which the registrant had no control, it can re-open the registrant's classification at the meeting.

New Mexico State Headquarters one giant step further by requiring

that the classification be re-opened in such a case, rather than merely requiring review as in California. Other states may have policies similar to those in California and New Mexico. If not, denial of equal protection under the law could be argued in court.

**Preliminary Interview**

Local Board Memorandum No.41, issued July 30, 1968, by the National Headquarters of the Selective Service System states, in part: "If, upon consideration of this evidence (the Form 100 and 150), the local board determines that it cannot grant the 1-a-o or 1-o classification claimed, the local board should invite or request the registrant to meet with it for an interview prior to classification. The primary purpose of the interview will be to develop further facts on which the conscientious objector claim is based, and the sincerity of

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FRANKLY SPEAKING by Phil Frank



Unwarranted Warrants

Ecology is Mutual Dependence

by Nick Smith

Ever since the idea of a no-knock search procedure was put before Congress, there has been considerable debate over the advisability of such a measure. The conservatives have been arguing that anything done in the pursuit of criminals must be justified, while the liberals have maintained that anything of this nature is in direct violation of the Constitution and all that is holy. As usual, the truth is somewhere in between.

To this date, the actual proposal is one for search warrants issued under circumstances where the issuing judge has been given proof that warning will allow evidence to be destroyed. In the vast majority of cases this could not possibly be proven, since evidence in most cases could not be destroyed during perhaps one minute in a house presumably surrounded by police.

For example, the loot from most robberies, or weapons from violent crimes, or for that matter victims of violent crimes, cannot be disposed of that quickly. It will, however, make a difference in cases where the evidence is of a less sturdy nature. If the evidence consists of a few ounces of heroin, or a spool of microfilm, then a few seconds could be extremely important. If it were a case where it would make no difference in the penalty, a vital witness might be killed during the time between the time police come to the door and the time they actually enter.

There is a negative side to this bit of legislation, too. It is possible, indeed, likely, that it will be abused in some cases. There have been abuses of current laws as it is, and this no-knock procedure could very well make things worse. In some areas where judges are notorious for

their questionable decisions, "proof" that evidence will be destroyed might be scanty indeed. There should be some definite safeguards on this, but it is difficult to say what they should be.

Another problem which would arise has to do with the chance of error. Last year, there were cases where the police raided the wrong house or apartment, in one case killing an innocent bystander. If police can break or sneak in, these cases will be multiplied greatly. Here is a hypothetical case: Suppose three officers go on nighttime raid. One officer, through negligence, leads the other two to the wrong house. They enter through an unlocked window or door. The owner of the house, seeing three men in his house with guns, (the police are plainclothesmen) gets out his own gun and threatens to shoot. One of the officers opens fire, and in the ensuing gun battle, both a policeman and the homeowner are killed. The policeman who led the other two to the house (if he survived) might then be charged with first degree murder, since two people died while he was committing a criminal act (breaking and entering, since he had no right to enter the wrong house).

In all probability, the above would not happen, but it is possible. Any part of the hypothetical story actually becomes downright probable. In any case, these are merely a few of the things which could happen if the no-knock procedure becomes law. I think that perhaps it would be better if more study were done on prevention of crime than on getting more evidence once it happens, because the no-knock law is aimed only at the latter. I think the gunshots are a little off.

An eco-system, as Eugene Anderson defines it, "is a system of organisms linked together by mutual dependence. They live in the same area, eat each other, interact with each other, grow from soil made by each other's decay." It is a system in the sense that it manifests certain organizational elements, notably the food chain.

The food chain is that universal process of passing sunlight-energy down through several levels of metabolic transformation - rotifers and small shrimp eat phytoplankton, are in turn eaten by small fish which are eaten by large fish. The chain has certain inherent factors: organisms on higher levels are bigger than the ones they eat; each organism is particularly adapted to most efficient consumption of the food it has "chosen" (as the beaks of birds are shaped toward the specialized tasks of ingesting berries, insects, or small animals); each food level uses 90% of the energy available to it for metabolism and passes 10% on to the next level.

These principles are, however, only apparent. No electron ever heard of the Schrodinger Wave Equation, nor do mountain lions care that they are protecting grasslands. They simply eat deer, and when more deer are available more mountain lions survive.

**Man and His Place**

That each man is a member of an eco-system is obvious, but this brings with it certain corollaries. The interaction of one individual with all the elements in his environment is a two-way process. Each person accepts stimuli and responds, and creates stimuli and is responded upon. I create garbage which must be disposed of or lie

about, so I pump it off the coast where it pollutes the water. I am a locus in my eco-system, and my environment of people, my house and car, my thoughts all interact in gross and subtle ways that weave into a multitude of other loci.

Two hundred and fifty million people in the U.S., not counting birds, cars, mosquitos, deer, cows, fish and factories, all form local resonances of stimulus and response to create a vast eco-system. The laws, customs, mores, religions, consumer products, wars, and all other human social activities are manifestations of these individual life-styles, no more, and no less. We are what we eat, kick, sleep with, and destroy. I am an organism, and it is my niche, my function, position, and my stimulus-response set that create the system.

**On Changing Responses**

So. We are what we are. And we can be different, but not by changing the laws or mores - that is only the "system's" manifestation of a *fait accompli*. Rather, the change must take place by changing the individual's responses to the stimuli he receives. I am presently engaged in changing the system in this way to reinstitute a more stable and favorable ecological balance with the world, which is my world. I am not a slave of my instincts if they will carry me to destruction - I am one up on the dinosaur and the saber-tooth tiger, and I invite you to join me in proving that being a human is not just a ticket to extinction. It is not going to be easy - I have been trying to alter my own way of life, but the very responses that must be changed are those which seem to fit best into my immediate environment. My responses are very convenient, when only that environment is considered. After all, evolution is a well proven process, and it has gotten me here to where cars and plastics exist to make my life more pleasant, where perfect fruit is brought to the markets at all times of year, where I can afford all sorts of luxuries, where the very newsprint this article is printed on is so cheap it is thrown away along with the forest it came from. The necessary change

you and I must make is not denying the luxury of these items, for that is an uphill battle. Rather, we must expand our consciousness of their full price, we must enlarge our conception of our environment. I have found several thoughts valuable toward this expansion, which is a difficult and fearful process for it means considering things and notions we will not understand immediately, or perhaps ever. The first two are simple mantras, thoughts to be repeated over and over, until they ring in the mind: "I am an animal," and "This earth is my home." There are many practical measures also; I provide a partial list below - many more will become evident to you as you apply these and become more eco-conscious, more conscious of your own role in determining the structure.

Make a compost heap of grass and organic garbage in your garden. (No need to buy fertilizer.)

Start a park (the city gives away trees - ask for one) or sponsor a neighborhood cleanup.

Use bio-control instead of pesticides - support spiders, ladybugs, and mice which recycle pests rather than breaking the food-chain.

Start your own conservation project - have an idea and do it on your own time.

Find out what you need and stick to that; don't over-consume - cosmetics? Useless clothes? Super cars?

Be a smarter lemming - adopt children instead of growing your own.

Listen to artists who have found this consciousness and it will help you find your own.

Treat the world with the same love you give your own house and car; if you would bend down to pick up a nickel, do it for a piece of litter.

Support ecology organizations.

Put politicians and other leaders in an ecological perspective - we are a democracy, an ecosystem with a superstructure that reflects inherent response.

Fight pollution by protests, letters, boycotting long-range, harmful products (chemicals, con-

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Engineering Majors

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David Miller

Uniformly Impressive

Remember those comic-opera uniforms President Nixon got for the White House guards? (Lines like this are the inevitable result of trying to be topical in a weekly paper.) A lot of people have speculated that he is somehow trying to impress other governments, or imitate uniforms he saw in Europe. My own unimpeachable (because nonexistent) sources indicate that at this very moment in a secret Navy installation the USS(N) Nautilus is being painted yellow, and the President will soon change his name to Sgt. Pepper.

Let us be ready for that moment. To President Brown and the students, faculty, and trustees of the California Institute of Technology I humbly (or something like that) present my design for a new uniform for the campus security guards.

Bottoms Up!

Let's start with the boots. Make them white vinyl go-go boots. That's not enough. Let's add mauve anodized-aluminum spurs. Much better. Oh, and put chartreuse stripes an eighth of an inch wide, separated by three-eighths of an inch of white ... Graphic Arts will be glad to put the stripes on the boots ... running from the top of the boot to the sole. Make them wavy lines, straight is boring ... Let's make the wavy lines symbolic of mathematics, science, and engineering: make them sinusoids! Each man's boot heels should be adjusted so that everyone stands the same height when they line up.

The tops of the boots need be no higher than the ankle; anything higher will be covered by the pants, which will be white sharkskin bell-bottoms, with piping down the outer seams in a racing-stripes configuration: one broad stripe with a narrow one on either side. Make the center puce and the outer stripes turquoise ... That's entirely too much white; tie-dye the pants in floral patterns. The dye can be that pink stuff which glows chartreuse under ultraviolet ... Oh, mercy, I've used chartreuse twice. Make the dye baby blue, and then the center stripe can stay puce but the outer ones will be International Orange.

They're Out This Year

The pants will be held up by an elastic band around the top. Outside, around the waist, will be a Sam Browne belt of Mexican silver conchas ... the shoulder strap will be to support the saber on the left side. This should, after all, be a practical uniform. So, a curved saber for easy drawing, and just to make it easy to care for, make the blade out of titanium, and set a strip of Carboloy, or something else that keeps an edge under adverse conditions, into the blade as the cutting edge. To go with the general splendor of the rest of the uniform, the sword and scabbard can resemble the one the Shah of Iran gave President Eisenhower. I'll let Central Engineering worry about carving curlicues down the entire

length of the blade.

The coat resembles a German officer's coat in World War II - double-breasted with those funny lapels - but we'll make it flare out at the waist and end at mid-thigh. The buttons can be negative-relief replicas of the hand-and-artichoke Institute seal, and we can connect the buttonholes with a criss-cross pattern of fringed braid ... color it violet, maximum reflection at about 4100 Angstroms. This same braid can be used to mark off the cuffs with little waves and curlicues based on Bessel Functions. This will look divine on the coat because the coat itself will be made of doeskin dyed in the creamy white they paint the walls with in rooms in the student houses; and there will be fringe on the sleeves of the coat, though it should be no more than two inches long. You may be saying to yourself, "What, no epaulets?" NO epaulets. They are out this year (another grave Nixon gaffe, fashion-wise). And *certainly* none of those silly-looking little cords. Just thinking about them makes me shudder.

Lemon Yellow in UV?!

Now for the hat. It will be a Panama hat, pinned up on one side, like Australians wear their hats in the movies. It will be pinned up

Continued on Page Five

YMCA . . .

Continued from Page One

Believe it or not, it's almost PME time again. The game is set for April 3 and 4, and sign-up forms should be out by the end of this week. Presently, the Y and the Political-Military Exercise leaders are at work creating the scenario, obtaining the building and setting up the necessary organization to run the game.

This year the PME will be centered in Asia, with the normal contingent of major powers. From the scenario, a crisis situation will develop which will involve a complex interplay among nations. Beyond its use as a time-dump, the Exercise brings out the realities of power politics and familiarizes the players with the nations involved.

Rule the World

There will be twenty teams or nations, consisting of five people per team, plus about thirty people running the organizational aspect. A variety of people will be used to fill the places, including Techers, faculty, and random students and coeds from other colleges. The chairman of the Political Science Department at Berkeley will be on the Control Board, helping to keep the game realistic. Dr. Ian Hunter, and several other psychologists and sociologists will be touring the various teams, checking reactions under crisis and such. Also, Mrs. Harold Brown will tentatively be playing the role of Mrs. Indira Gandhi.

For further information, check at your local Caltech Y.

The Tech



About Town

The Magic Mirror's on the move again, so let's follow it. Just usually lettin' it exist. No age limits.

Ash Grove, at 8162 Melrose in Los Angeles, has Doug Dillard from now until Sunday the 15th.

The Golden Bear, which is all the way down at 307 Ocean Ave. in Huntington Beach, has Sonny Terry & Brownie McGhee & Jimmie Spheeris until Sunday. I hope that means something to you.

The Ice House, at 24 N. Mentor in Pasadena, has the Dillardas, Gabe Kaplan, and Roy Harris until the 15th. Belland and Somerville are there from the 17th.

Shelley's Manne Hole has the Jazz Crusaders until Sunday, with the Herbie Hancock Sextet begin-

ning on Monday. Shelley Manne and his Men play on weekends for a double bill. They are at 1608 N. Cahuenga. (How else would you pronounce Cahuenga?)

The Troubadour, at 9081 Santa Monica Blvd. in L.A., has James Taylor this week with co-feature Jo Ellen!

The Whisky a Go Go, for you nimble-footed dancers, still has Dyke and the Blazers until the 15th. However, Blue Cheer blares in on the 18th, along with Bangor Flying Circus. 8901 Sunset (where else?) is the address.

Here are the various concerts and special events.

The Long Beach Arena and/or Auditorium are having the following concerts: On Friday the 13th, Judy Collins; on the 14th, pianist Jorge Bolet; and on the 21st, Jose Greco and company.

The Hollywood Palladium is having a special concert with the Glenn Miller Singers and the Modernaires on the 13th.

The Santa Monica Civic Auditorium is having a Judy Collins concert on the 14th. Jose Greco is there on the 24th, with SANTANA Elvin Bishop on the 25th.

Bridges Auditorium at Claremont has Artur Rubinstein on the 17th, followed by Judy Collins on the 28th.

Our own Beckman Auditorium has O.C. Smith on March 1st.

The Dorothy Chandler Pavilion

at the Music Center has a few special events upcoming. Jimmy Webb is there on the 21st, followed by Charles Aznavour on the 27th and 28th.

The Pasadena Civic Auditorium has the Pasadena Symphony Orchestra with Virgil Fox on the 18th. They also are having Fred Waring and the Pennsylvanians on the 26th.

Royce Hall, at UCLA, features the Treteau de Paris with their version of "Antigone" tonight, the 12th.

There are many continuing and special events at the Music Center, too many to list here. I suggest you check one of their calendars for details.

The Inner City Cultural Center has a group of short plays, collectively called "Black Quartet." One of them is by LeRoi Jones. They continue until the 15th.

That's all I'll include for now. Go out and do something to or with somebody somewhere.



Those who want to try out rallying are reminded that CARE\*FREE '70 is this Saturday. Registration is from 6:00 p.m. to 8:30 p.m. The start is in the Eastland Shopping Center. See last week's Tech for more details.



Sterile Cuckoo --- Tells a Potent Story

You, typical Techer Edwin Todnik, are wandering down Colorado Boulevard the first week of frosh year, Polaroid in hand, eying likely prospects for enshrinement in the annals of photography. You espy a likely object and lift the camera to your eye. Eternity is in your grasp but your vision is suddenly obscured. It is a round wide-eyed fact topped by broomstraw hair. A protrusion in the center appears much too large and pretentious to be a nose. It is saying "Do you need a model?" and you realize it is a girl. So you take her picture and she accompanies you talking rapidly, disjointedly, and constantly. You discover that she is a freshman at Scripps and that she is horribly afraid of "weirdos." As she leaves you she gives you the picture and tells you her name is Pookie Adams. You hang up the picture on your dashboard and go back to your study of photographic microbiology.

The next weekend you are sitting in your room doing those lovely physics problems and you are presented with a visitor ... guess who. You try to interrupt the flow of sound long enough to explain that there are these physics problems you simply have to do but there is no hope. So you take her to see the steam tunnels and the top of Millikan and she starts running around the top of Millikan and she wants you so desperately to like her. She stays the night in a neighboring motel and finally she leaves. You go back relieved to your physics until you get a telegram which says "My name is Pookie. You didn't say it once." So you

decide to go see her—you don't know why—and you fall in love with her.

You don't know what you're doing when you rent a room for the two of you for the weekend but she helps you out. She needs you so much. She is alone. Her mother is dead; her father deserts her periodically. She rejects friends from the phony weirdo world. She is always doing crazy things but you love her for it; you need her too. Gradually you don't need her any more; she has brought you out of yourself.

Continued on Page Six

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Miller Makes It Right

Continued from Page Five

with an Avis pin which says "We Try Harder" in Cambodian. I've just decided to make the hats white (these are good guys), so the coat can be colored with that bright green stuff which fluoresces lemon-yellow under UV. And let's put some braid around the crown of the hat, and on the turned up side. Make this braid, for contrast, "That horrible color that all the uniforms of the Army are made of" (quoted from R.P.Frodo, Vol. 1, p.35-5 of *The Red Book of Pasadena* ).

Zola Snidefitch, bless her heart, just suggested that the hat have a flower pinned onto it. I know just the flower; it is called the Bedelia Glumphney rose. It is a sort of grayish purple, with accents of blue at the edges of the petals, and a yellow center. The blossom can rest on the brim of the hat in front, and the stem can go between the brim and the crown on the pinned-up side. These roses last a very long time, as they are artificial.

The final touch just has to be tangerine shades.

Any officer who doesn't like the new uniform can just go across town and be a knight watchman at the Chivalrous Institute of Torquillstone.

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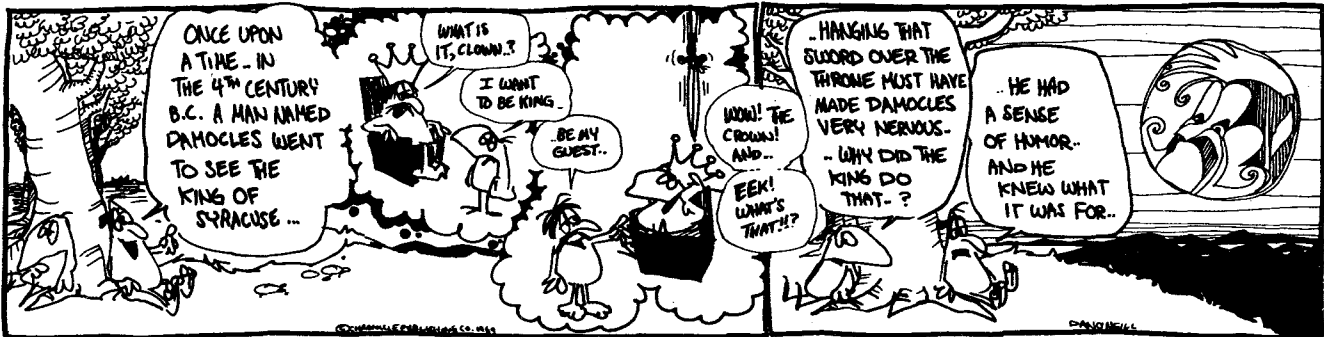
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CIT "Poet Laureate"

Marty Marshall — Techer Turned Poet

Caltech has been fortunate in the sense that many of its young scientists have artistic inclinations which broaden student life in the Institute as a whole. Such a person is Marty Marshall, a physics major who may be called the "Laureate of Caltech." At a poetry reading Friday night, Marshall displayed a depth and maturity characteristic of the new generation of poets. His style was both earthy and topical, relevant and humorous, his equanimity most soothing. One can be entertained by his poetry as well as broadened.

Marshall's interest in poetry began in high school; several classmates of his, including Ken Okunu, are now being published. It seems likely that Marshall will be published, quite possibly by Lawrence Ferlinghetti's City Lights Press. The English department has nurtured his interest. Marshall has also been a contributor to the *Tech* and *Totem*. He jokingly refers to these works: "If I see them I try to

bury them to keep them out of sight."

To Continue Studies

Marshall's plans are to continue his studies in Irish-American literature at either Sonoma State, U.C.S.B., or possibly the University of Dublin. The Gaelic influence on Marshall is strong; Marshall thinks Joyce made the deepest impression on his style.

Marshall's departure, however, does not imply the departure of creative poetry from the student body. Marshall notes that his classmates Alexis Nivanos and Bill Hocker confute the statement that a poet-scientist is an anomaly. One must therefore expect many tyro poets and artists attending Caltech. Many other professors and students have achieved consummate skill in their hobbies.

Scientific creativity is very compatible with artistic creativity; in synthesis the two produce the truly broad, creative scientist that is Caltech's goal.

Pasadena's Two Great Institutions Should Meet

by Alan Lederman

Pasadena has been endowed with two of the most prestigious institutions in America, the Pasadena Art Museum and Caltech. Unfortunately, few of us at the latter have any appreciable contact with the former. I believe an introduction to the museum would benefit the Caltech audience in several ways.

History

The Pasadena Art Museum was incorporated in 1924 by a group of citizens "to establish a museum of art, painting, and sculpture, and develop the study of dindred subjects." In 1953 the museum received a gift of a magnificent collection of modern art. The trustees decided that by using this as a nucleus, it would be best to specialize in art of the twentieth century. In addition, works of this century are relatively easy to obtain. There were other factors, of course, contributing to the decision to concentrate on modern art.

The museum feels it must acknowledge not only the established artists of this century, but those who constantly seek new ways to interpret the world around them. By purchasing contemporary art, displaying new artists, and educating the public, the museum is actively contributing to yet further development; it is the difference between support and recognition.

Feynman Attends

The museum responds to its role as citizen of Pasadena. It conducts an annual contest in California furniture design. It has an extensive Art Education department, consisting of junior, teenage, and adult workshops. Perhaps the most

famous person in attendance is Nobel Laureate Richard Feynman. These art courses provide a fine opportunity for the Pasadena resident to learn about art, and perhaps discover the sense of artist within himself.

The Pasadena Art Museum sees itself neither as a substitute nor rival to the L. A. County Art Museum. Rather, it sees its role as an extension of the County Museum.

The new museum opened in November 1969. The former facilities were too small to accomodate the increasing attendance caused by the tremendous public interest in art. This move and the subsequent expansion involved great problems. Chosen by the board of trustees to be acting director during this difficult period was Thomas G. Terbell, Jr. One would expect a director to be a professional artist. Rather, Mr. Terbell has a bachelor's degree in economics from Stanford, and a master's degree from Harvard Business School. He is on leave from his position as vice-president of a major bank.

An Interview with Mr. Terbell

Playboy (Lederman): What are the problems you faced during expansion?


Terbell: Firstly, the financial problems. Secondly, the difficulty in finding qualified personnel. In order to be qualified as a curator, applicants needed to have a master's in art history, a commodity which is very much in demand during our culture boom.

Playboy: How do you organize an art exhibition and select your

Continued on Page Six

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## Puget Sound, CHM Sink Tech Tankers 86-25, 79-33

The Tech swimming team sank to defeat Friday at the hands of the University of Puget Sound, and again Saturday against Claremont-Mudd's team.

Puget Sound managed to rack up 86 points here Friday, while Tech accumulated 25. Saturday in the Caltech pool Claremont-Mudd defeated the Beaver swimmers 79 to 33.

Bright spots for Caltech's coach Lawlor Reck in last week's swimming competition could be found in the performances of Steve Johnson and Mabry Tyson against CHM. Johnson won both the 1 and 3 meter diving events by gigantic margins. He had 172 points in the 3 meter dive, while teammate Ed Fronczak had 136 to finish second. In the 1 meter dive Johnson compiled 182.5 points while the second-place finisher was some 60 points back.

Mabry Tyson gained a tie for first place in the 50 yard freestyle event with a time of 24.2 seconds.

Against the University of Puget Sound Johnson won the 3 meter dive competition with 174 points. Gary Reedy of Caltech finished second with 128 points, (rounding off the decimals). Jim Jakway took first place in the 200 yard butterfly with a time of 2:18.7. In the 1 meter dive Lary Andrews and Ed Fronczak finished second and third, respectively, with 102.9 and 97.6 points. The winner was just slightly ahead at the end of the competition with 103.4 points.

The team's next meet is tomorrow afternoon at Pomona, beginning at 4:00.

## THE STERILE CUCKOO

Continued from Page Five

And you try to kiss her off, but you don't know how and you can't. But eventually you find the trite words and watch her break into little pieces. But what can you do?

Liza Minnelli is absolutely marvellous as the sterile cuckoo in the Alan J. Pakula movie now playing around town. Go see it.

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## Tech Out-Grapples Whittier; Season Record Now 10 and 2

### A Smarter Lemming

Continued from Page Three

struction projects, So. California water projects, etc.)

Spread the word.

This list is a beginning, a start towards creating a new system, balanced and stable, strong and resilient because it is based on the very root of any system—the member's perception of the environment and response to it.

One last word I should emphasize—this environment-expansion, which I have experienced to some degree, is rewarding in its own right. Our relationships to the world are manifold and complex, and the world itself very beautiful. The joy of identifying with the air I breathe is well worth the "loss of freedom" of not driving a car as often and as far as money will allow; food tastes better when I see it coming up the food chain; and being "only" an individual member, a "small" part of an eco-system is a glorious fate. I find myself evolving a new life-style, not just giving up the old. A ruthless asceticism is as ridiculous as a bloated overconsumption.

Love it or . . .

protectors of a rich and a diverse community, rather than Western man, alone and awesome, straddling a world to be conquered and subdued. But the choice is mine, and yours, to love the earth and receive her love, or to use her like a common whore.

The Caltech wrestling team continued their winning streak and improved their league record to 3 wins and no losses by defeating Whittier College 29 to 10 last Wednesday at Whittier. The Beaver grapplers now have won 8 straight meets and have a season record of 10 and 2.

Gary Zieve and Bruce Johnson were the big winners for Tech Wednesday. Zieve pinned his 150 pound opponent after just 1:24 of the first period to remain undefeated this season. It took Johnson slightly longer to get a fall in the heavyweight division; he pinned his adversary in 1:43.

Four Beavers contributed 3 points each to the team score by gaining decisions.

Ken Bickford won his match in the 142 pound class by a 7-1 score. Doug Wood took a 19-10 decision at the 158 pound class. John Morton, in the 167 class, gained a 9-7 decision victory when he was awarded 2 points for a riding time advantage of 2 minutes. Alan Beagle defeated his opponent 9-4 in the 190 pound weight class.

Jeff Blair and his wrestling partner each added 2 points to their teams' score by finishing their match in a 3-3 tie.

Caltech's match with La Verne, scheduled for last Saturday, was cancelled because La Verne only had 2 wrestlers.

The matmen will compete Friday and Saturday at the Biola Tournament.

## Wright & Logan

Continued from Page Two

such claim. This interview does not take the place of the personal appearance which the registrant may request ... after the classification action." Most attorneys argue, and recent court decisions agree, that "should" as used by the Selective Service is to be interpreted as "must" and that therefore it is mandatory for a local board to grant the preliminary interview.

### Personal Appearance

Many local boards are hesitant to grant a CO classification without first having a chance to talk to the registrant at either a preliminary interview or a personal appearance (or both). Our previous article on the personal appearance applies equally to the preliminary interview. Remember that it is important to find out why the local board is rejecting your claim, if such is the case. The courts will not convict a registrant who refuses induction if the local board has not shown a legitimate basis in fact for denial of the claim (assuming, of course, the registrant has made court review possible by exhausting his appeal rights).

### Register of Conscientious Objectors

Registrants curious as to their board's attitude on CO claims may gain insight by inspecting their local board's Register of Conscientious Objectors. Selective Service has recently ruled that the register, which each board is required to keep under Section 1623.8 of the Selective Service Regulations, is a public document available for inspection at any draft board. *Counterdraft* has a copy of the ruling.

## Art . . .

(Continued from Page 5)

program?

Terbell: The germ of the idea for an exhibition begins with one of the curators. The procedure then consists of locating the works of art required, obtaining those possible, and writing a catalog. If the exhibition is successful, it may be leased to other museums. We also lease exhibits, especially from the Museum of Modern Art in New York.

Playboy: To support local artists, will you exhibit an artist for the first time?

Terbell: Yes, this is a possibility. Artists come to us with their portfolios, wishing to exhibit their works. Moreover, our curators go out and seek out other artists, always making new contacts. The works of these people are often very much worth considering.

Playboy: How do you get feedback from people as to your programs?

Turbell: I go to the galleries and talk to people.

Playboy: Other areas being studied are computer-generated art and laser lighting techniques. Than you very much.

Terbell: Thank you.

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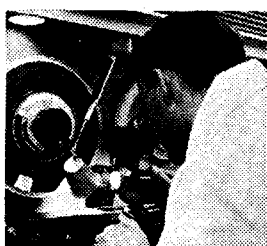
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## MEMOREX



# Wipe Out Your Whole Block

by Lance M. Optican

Shotokan Karate, as studied here at Caltech, is a martial art, one that has developed from centuries-old Oriental arts. Modern karate started in Okinawa with Master Funakoshi Gichin (1869-1957). Master Funakoshi studied karate from the age of eleven and was the first karateka (student of karate) to systematically organize and analyze karate techniques. In 1917 he introduced the art to Japan, where it caught on quickly.

**Comes to America**

In 1955 Master Tsutomu Ohshima, one of Funakoshi's students, came to America, bringing Shotokan (referring to Funakoshi) Karate to the United States. In 1956 Master Ohshima found an enthusiastic group of students here at Caltech who wanted to study this mysterious art, thus leading to the founding of the Caltech Karate Club, the first collegiate Karate club in America.

What is it that had been brought to America and Caltech? Karate, as practiced by 80% of its practitioners today is a commercial venture, at its best a training in the techniques of

movement proven by scientific study and developed with modern knowledge of medicine, physiology, and physics. Shotokan Karate as practiced here is much, much more. Karate is a way to improve yourself physically and psychologically.

**Strength of Mind**

Karate developed originally to enable unarmed fighters to defeat trained, armed, and armored troops. Today karate enables one to defeat not only physical attacks, but also to defeat mental weaknesses. Shotokan Karate trains the mind in a positive way of thinking that spreads beyond the dojo (gym). It may never be necessary for you to defend yourself against eight assailants in hand-to-hand combat (unless you frequent Page House), but you are confronted every day by life, and to enjoy life to the fullest, to get the most out of living requires a strong mentality and a mentally healthy outlook.

**Confidence the Goal**

You can't enjoy life, or interact honestly and freely with people, if you are intimidated by your

Continued on Page Eight

# 'FOURTH?'

by Robert Geller

North			
S A 9 7 4 2			
H Q 10			
D Q 5 2			
C K J 6			
West			
S 8 6			
H J 9 7 6 2			
D 9 6			
C 10 7 3 2			
East			
S K			
H A 8 5			
D A K 10 7 4 3			
C 9 8 5			
South			
S Q J 10 5 3			
H K 4 3			
D J 8			
C A Q 4			

Both vulnerable.

**The Bidding:**

East	South	West	North
1 D	1 S	Pass	4 S
Pass	Pass	Pass	

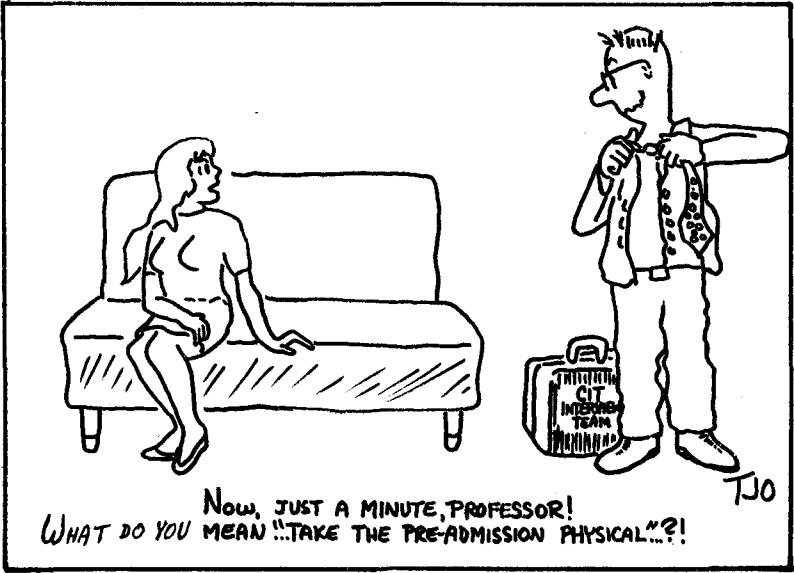
Opening lead: nine of clubs.

"Very curious," Sherlock Holmes said to his companion, Dr. Watson. "Did you notice the strange behavior or the dog in the night?" And, by noticing that the dog did not bark Holmes cracked a case which baffled the elite of Scotland Yard. Declarer on today's hand failed because he had never read this interesting idea and did not note

what his right-hand opponent failed to do.

East won the opening lead with the king of diamonds, cashed the ace of hearts, then cashed the other high diamonds before exiting with a club. At this point all declarer had to do was find the king of spades. Since he had wasted his time reading bridge books instead of A. Conan Doyle, he knew that the odds were three to one in favor the trump finesse. So, like an honest man, South led the queen of spades and finessed, going down one.

Declarer, like Scotland Yard, failed to take note of what his opponents had not done. If West had the king of spades East could simply have led another diamond, letting West overruff with the king of spades for the setting trick. For some reason, East refused to try this defense. The only logical explanation for East's failure to lead another diamond is that he is looking at the singleton king of spades and doesn't want to force declarer to guess right in spades. So



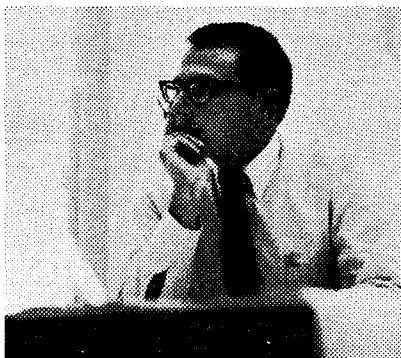
## Do you think a bright young engineer should spend his most imaginative years on the same assignment?

## Neither do we.

That's why we have a two-year Rotation Program for graduating engineers who would prefer to explore several technical areas. And that's why many of our areas are organized by function—rather than by project.

At Hughes, you might work on spacecraft, communications satellites and/or tactical missiles during your first two years.

All you need is an EE, ME or Physics degree and talent.



If you qualify, we'll arrange for you to work on several different assignments...and you can help pick them.

You may select specialized jobs, or broad systems-type jobs. Or you can choose not to change assignments if you'd rather develop in-depth skills in one area.

Either way, we think you'll like the Hughes approach.

It means you'll become more versatile in a shorter time.

(And your salary will show it.)



## CAMPUS INTERVIEWS: February 27, 1970

Representatives of several activities of Hughes Aircraft Company (each with highly-specialized personnel requirements and separate interview schedules) will visit your campus. If your career interests lie in one or more of the following fields of aerospace/electronics, contact your Placement Office TODAY to make sure your name gets on the interviewing schedule for HUGHES AEROSPACE DIVISIONS:

Microwave & Antenna Engineering  
Guidance & Controls Engineering  
Spacecraft Design Engineering  
Components & Materials Engineering  
Weapon Systems Engineering

Electro-Optical Engineering  
Microcircuit Engineering  
Space Systems Engineering  
Missile Systems Engineering  
Circuit Design Engineering

U.S. Citizenship required/An equal opportunity employer.

spurning the trump finesse, declarer should bang down the ace, catching East's unguarded king.

for those late  
night  
pick-me-ups



But I liked the picture last week!

The Coffeehouse  
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NOW OPEN!  
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10% off on food to all persons  
submitting this ad.

Not So Brief Is the News

**Continued from Page One**  
unarranged practice, as well as the lack of general appeal of many gym courses, seem to be the most frequently voiced complaints.

**Innovations in Requirements: Four Years' Residence Only?**  
One rather sweeping suggestion for educational reform at Caltech stipulates that the only requirement for graduation would be four years' residence at the Institute. Perhaps this might be tried experimentally with about thirty students.  
Anyone else with ideas? Let us know about them.

**Dr. Yariv Elected Fellow of IEEE**  
Dr. Amnon Yariv, professor of electrical engineering, has been elected a fellow in the Institute of Electrical and Electronic Engineers (IEEE). His citation explains that the honor was given for his work in quantum (low energy) electronics and solid state devices. Dr. Yariv obtained his BS, MS, and PhD in EE from Berkeley, and has been at Caltech since 1964.

**Lightning Never Strikes . . . But Millikan Had a Surprise**  
A large polt of lightning reportedly struck Millikan Library Tuesday morning at 00:35. The shock wave was felt as much as a mile and a half away; however, no damage was reported.  
Persons eating at the Coffeehouse originally thought that a lab might have exploded, but later, several members of Dabney House reported that they saw a large bolt strike Millikan. Let's here it for the

HI LIFE  
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Best bottomless entertainment in Pasadena.  
Admittance restricted to those 21 years of age.  
  
The \$1.00 door charge will be waived upon presentation of a CIT undergraduate, graduate, alumnae, faculty, or employee identification and receipt of a special semester pass.  
  
Continuous shows 12 noon to 2 a.m.  
Lunch Shows 12:00-3:00.  
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Now featuring:  
*Rindy Martin*



Rindy is a winner of many beauty contests, such as Miss S. S. Catalina, Miss U.S.S. Holister, Miss U.S.S. Galveston, and Miss Shutterbug, entered the Miss California pageant, and has never lost a go-go contest she has entered, including L.A., Hollywood, and Miss A-Go-Go California contests. Five feet of blonde dynamite!

Faraday cage construction used on this campus.

**Institute Acquires Another Artist in Residence**  
John Whitney will shortly join Feric Csentery and Paul Darrow as Artists-in-Residence as the Art Program continues to expand. Whitney has worked on the special effects for Stanley Kubrick's "2001," and plans to work with computer films.  
Perhaps you have wondered where the money for the Art Program comes from. Apparently, a budget (reportedly very large) exists which is supported by funds donated by Virginia Godsteele (spelling?). If this is so, expect continued expansion of the Art Program.

**Tech Wrestlers May Win Championship**  
If the Wrestling Team defeats Pomona this coming Wednesday, February 18, at Tech at 4:30 p.m., they will be undefeated for the season, and should go on to win the League Championship. Keep your fingers crossed, watch the match, and prepare for a barbeque.

How to Kill for Fun, Profit

**Continued from Page Seven**  
environment or fear others. Mental health can be viewed as possession of self-esteem and confidence. A certain amount of self-esteem and confidence is necessary before a person can easily interact with life, and Shotokan Karate builds this self-confidence.  
Initially, a karateka may acquire a false sense of security in his ability to defend himself against an attacker, but this soon fades and is replaced by an insight into his own mind. With a deeper understanding of himself and an improved philosophy of living the karateka improves his self-esteem. As a by-product he is now physically much healthier, and is secure in the knowledge that he can't be beaten. He has been so hard on himself that no one else can defeat him—kill him perhaps, but not defeat him.  
**Where It Comes From**  
Where does this self-confidence come from? It comes from hard work and dedication to an ideal. There are no lectures in Karate explaining the ABC's of Self-Esteem. But there are many opportunities to *set your own goals* and reach them, and if you are lucky

enough to study und Master Ohshima, there is also a sharing of a fantastic philosophy of living that can affect you (favorably) for the rest of your life.  
Here is an example of how karateka effect these benefits: Stand up! Spread your legs until your feet are about two-shoulder widths apart. Feet should be parallel, with the toes pointing forward. Now, move your hips vertically downward, tightening the buttocks and pushing your knees outward, under tension. Keep going down until your hips are about six inches higher than your knees, with your body upright and your knees over your toes. If you did it right, you are now in what is called horse-stance, or kiba-dachi: a basic fighting stance. If you want to see whether you have will-power or won't-power, try standing this way for a mere five minutes.  
**Try It for a While**  
Despite the hundreds of rationalizations someone with won't-power can mention to avoid doing it, I hope someone will be honest enough with himself to try it. If you are such a one, just remember don't stand up, don't let your knees

fall in, and don't lean forward . . . it's only five minutes! (If you are standing correctly, this will start to hurt in a minute or so across the top of the thighs.) You *can* stand this way for five minutes. Could you for ten? Karateka who go to Special Training (a form of self-torture designed to improve the mind and body in a short time: three to six days) stand that way for a hour and a half (yes, 90 minutes), and then they go on to something harder. That is strength!!  
Now, why this example? It shows, first of all, that people who study karate are dedicated: neither golf nor weight training is as hard. Secondly, it demonstrates that a karateka can reach a goal he has set for himself (no one forces him) despite impediments imposed by life (i.e., severe pain). Thirdly, it demonstrates why he has confidence and self-esteem: he knows a lot about himself, and he knows that he can't be beaten.  
Next time you go through the gym and you see Master Ohshima and his students, think about what they are accomplishing—and perhaps you will join us and start to understand living!

campus  
interviews

Individuals majoring in Computer Science, Engineering (Electrical, Mechanical or Industrial), Mathematics, and Physics will be interviewed by Collins Radio Company.

February 26, 1970

Some facts about Collins:

1. Collins pioneered many of today's data techniques and recently announced a computer-controlled design and manufacturing service for customers.
2. The company ranks as the largest independent producer of microwave systems.
3. More than 75% of the commercial airlines use navigation/communication equipment supplied by Collins.
4. The company designs and installs computer systems for the military and for railroads, airlines and many other industrial organizations.
5. Collins serves as the prime contractor on NASA's worldwide Apollo tracking network.
6. The company is recognized as one of the world's leading manufacturers of commercial broadcast equipment.
7. Collins received the first contract awarded to a single company to design, equip and build an earth station for satellite communications.

Contact your College Placement Bureau for additional information.

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