

The trouble with student government at Caltech is...

# The CALIFORNIA Tech

Copyright 1971 by the Associated Students of the California Institute of Technology, Incorporated.

...we put all our dregs in one ASCIT.

Volume LXXII

Pasadena, California, Thursday, February 25, 1971

Number 19

## News Briefs

### Dubridge to Reflect On Science, Politics

Dr. Lee Dubridge, former Scientific Advisor to President Nixon will present his "Reflections on Science and Politics," next Wednesday, March 3, to the Chemistry and Society Seminar in 22 Gates. All Techers are encouraged to attend.

### Lee Browne to Teach Educational Issues Course

A brand new 1971 model philosophy course, Educational Issues and Problems, will be offered next term by Lee Browne. Special emphasis will be given to the changes that will be necessary to handle the continuing growth and restructuring of public schools. The topics to be discussed will include innovative curricula, integration and the minority student, student-teacher relations, political and financial control of the public schools, and school administration and student rights. Guest speakers from the fields of education and psychology will also be included in the course.

### Hillel Will Eat It and Serve It, Too!

This Tuesday, at noon, at Dabney Gardens, members of the Hillel Club will meet over lunch to discuss issues important to all of us. Such issues will include the UJWF campaign and the upcoming Second Annual Hillel Club Passover Seder. Help is desperately needed for the planning and execution of both events. Please attend the luncheon session Tuesday—(you need merely order a boxed lunch Monday and pick it up just before the meeting).

### Two Course in Merge Mode

Alienation and Modern Man, and Existentialism and Modern Man (currently History 161 and Philosophy 3) will become a single course next term under the instruction of Professors R. Hetz and R. A. Rosenstone.

Featuring readings of Marx, Laing Marcuse, Rozak, and Freud, among others, the course will study the history and philosophy of existentialism in the modern world. It counts as a humanities credit.

## Society and Chemistry

# Gasoline Lead Problem Discussed

by John Fisher

Last week's topic in the Society and Chemistry Seminar series was "The Problem of Lead in Gasoline." Speaking was Dr. Morton Z. Fainman, Chairman of the Southern California Chapter of the American Chemical Society.

The presence of lead in gasoline poses many serious potential health hazards, says Dr. Fainman. An increase in the level of lead in the environment, such as is being caused by lead from auto emissions, will seriously affect sensitive individuals, and also make more people sensitive to it by its very presence in substantial quantities. Lead has adverse effects on metabolism, attacking red blood cells and affecting certain chemicals in the body. Lead can also, strange as it seems, have an effect on fertility - (maybe that's the answer to our

population problem).

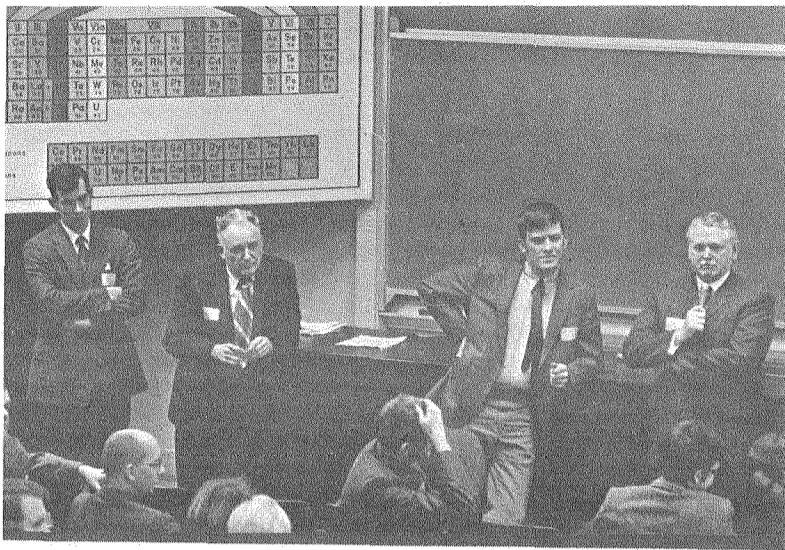
Despite these obvious objections to its presence, Dr. Fainman feels it would be unwise to mount on a crash program to remove the lead from automobile fuel, as other factors may be involved which we know nothing about. As an example, he points to the fiasco of earlier this decade in which attempts were made to reduce the hydrocarbons in auto exhaust, which resulted in an increase in the level of nitrous oxides emitted. Such foolhardy, if enthusiastic, programs to improve our environment can be costly and may result in more damage than they prevent.

Lead has existed in automobile fuel since about WWI, when tetraethyl lead complexes were added to gasoline to improve performance and boost octane ratings. To go to low lead, high octane fuels would

mean that highly-aromatic compounds would be included in gasoline, leading to more photochemical pollution and a greater carcinogen potential. Also, lead oxide and sulfate form deposits in the exhaust systems of cars (look around your tailpipe sometime), and removal of lead would mean no fixation of these compounds, and greater SO<sub>2</sub> emissions (ugh!).

It is also unclear as to how much actual pollution comes from the exhaust, and how much from other sources, such as evaporation of fuel in the tank. The emission levels of cars in the laboratory running on dynamometers has been measured, but no one has ever taken a car, isolated it, and measured everything that goes in and out of the room as the engine runs. We are sadly lacking in real, quantitative data of

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Appearances to the contrary, these gentlemen do not want to relieve you of your money or your life; they just want you to drive a cleaner car. —photo by Fish

For cleaner engines...use propane.

## Clean Car Conference

by Malcolm Handte

Who were all those people that were looking at a flood-lit white Hornet on the sidewalk west of Millikan at ten o'clock last Tuesday evening? They were the people who went to the Clean Air Car Conference that you missed. Too bad for you. (The Hornet, of course, was Tech's very own, natural gas powered, clean air car).

The conference, which managed to be interesting, informative, and entertaining all at the same time, featured talks by four members of the Caltech community. Two faculty members, Mahlon Easterling, Visiting Professor of Applied Science, and Lester Lees, Professor of Environmental Engineering and Aeronautics and Director of the Environmental Quality Lab (EQL), spoke on some of the general problems involved in the control of automotive air pollution.

Graduate students Micheal Lineberry, captain of the 1970 Caltech Clean Air Car Race team (to which Easterling was faculty advisor), and Wally Rippel, winner of the 1968 Caltech-MIT electric car race, each spoke enthusiastically of their own particular solutions. (Lineberry's team converted and raced the Hornet).

Dr. Easterling's talk centered on the conclusion, drawn from the

1970 race, that internal combustion engines powered by some fuel other than gasoline are probably the only low emission engines that are practical in the short run. The results of the race provide impressive confirmation: the only cars that finished the race, took the final set of tests, and had emissions lower than the 1975 federal standards were some of the cars powered by

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## Creative Writing

### Totem Returns; Needs Material

by Philip Massey

Caltech's creative writing (and assorted other things) magazine, *The Totem*, has returned to this plane of existence after a rather extended leave of absence.

However, what might be desired as the weak link in the odd chain of events that led to *Totem's* resurrection is a noted lack of material. The *Totem* will be a collection of assorted creative things: poetry, free verse, short stories, pictures, drawings. Anyone vaguely connected with the Institute can submit stuff. This includes undergrads, grads, faculty members,

## Beckman on Beckman

# Its All in Your Mind

by Peter Beckman

In some cases the right hand truly does not know what the left hand is doing said Professor Roger Sperry Monday night at Beckman Auditorium. Speaking on "Mental Specialization in the Cerebral Hemispheres of Man," Professor Sperry explained the results of his experiments on persons who had had the hemispheres of their brains surgically separated so that they had, in effect, two separate minds.

These operations were carried out only on persons suffering from very severe epileptic seizures that could not be controlled by other means. The corpus colosum, which connects the right and left hemispheres of the brain with nerve bands, was sectioned so that "cross talk" or information movement between the lobes was stopped.

It's not what you think...

The most amazing result of this operation was the lack of effects. The patients functioned almost completely normally afterwards, but tests showed a number of impairments.

Basically it was as if the patient had two brains functioning separately and independently. They had separate memories, sensations, and

received information from different parts of the body. For example, the left hand could not recognize an object that had been felt by the right hand only moments before. This was because the hands were connected to different hemispheres of the brain and the information about the object could not be transmitted between them.

In normal life this was almost unnoticeable. Since both eyes focus on one object, information about it went to both hemispheres of the brain, and primitive uncrossed sensory and motor systems were developed to send information to both hemispheres.

It's how you think!

Professor Sperry's research shows that the left hemisphere calls the shots. It is much superior to the right hemisphere in verbal abilities and forces its control over the body. The right hemisphere, on the other hand, is "mute, illiterate, and passive." Its processes are basically obscure, but it is superior to the left hemisphere in special relationships.

The results of these studies show the hemispheres evaluate information in different ways, so that they compliment each other in a normal brain. But this is just a beginning; much remains to be found about the functions of the human brain—nature's most complex creation.

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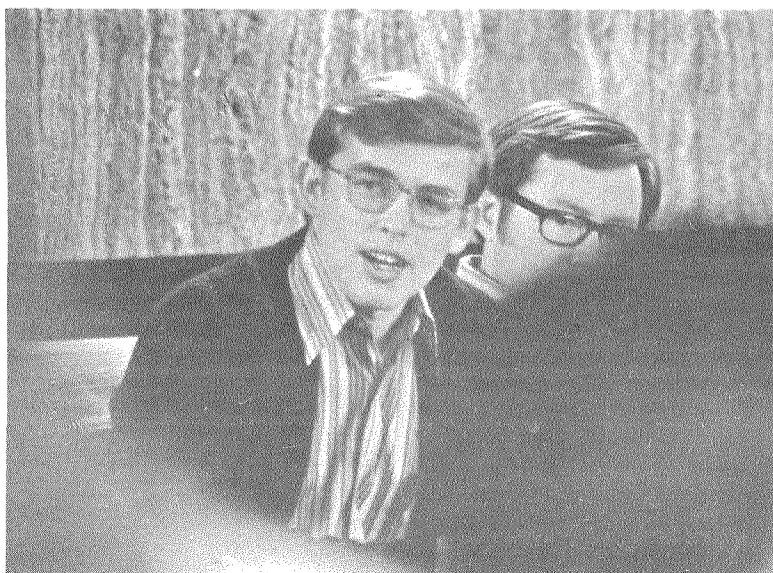
Next Monday night at 8:30, Caltech Trustee Henry Dreyfuss will speak at Beckman Auditorium on "Signs of the Times: Symbols—A Universal Language."

## Candidates Statements

Statements by all candidates for ASCIT offices [except for IHC chairman, for which we received no statement] appear on pages five, six, seven, and eight of this week's issue.

Also, this is the fiftieth issue of *The California Tech* published by photo offset. For a retrospective, see page ten.

## Visiting Theologians



Wayne Grudem, one of the visiting theologians invited to the campus as part of a Caltech Y program, talks to students in Winnett Lounge. —photo by Fish

Editorial

Curriculum Changes Needed

We are told that we are the brightest undergraduates in the country. To prove it, we are subjected to four years of the most rigorous technical education available anywhere. Yet a third of those of us who matriculate do not graduate.

Some years ago, concern over this phenomenon sparked several reforms in the manner in which the academic program runs. Pass-fail grades became standard for the freshman year, and several requirements (such as Engineering Graphics) were lifted.

The momentum for reform has slowed since then. The Biology and Chemistry departments have lifted formal requirements within their respective divisions. However, the Independent Studies Program remains in limbo for lack of a faculty member to head the committee governing it.

A perusal of some of the statements by candidates for ASCIT offices indicates that momentum for academic change may be increasing. The current Physics 2 program seems to have drawn considerable criticism, for example. Several other topics recur in many of the statements.

Perhaps something will be done this time around.

With that in mind, we would like to present a few thoughts related to academic reforms.

First, we take exception to the present grading system. Pass-fail grades have certainly eased the pressures of the freshman year, but the specter of letter grades remains for upperclassmen. We think it ridiculous to select the brightest students, and then have them compete against one another (or sometimes worse still, against themselves) for grades in the grand tradition of high school. An interest in science attracts most Techers here. Too many lose that interest to the competition for grades.

We would favor an A-P-No Credit scheme for all four years. This would combine the major advantages of Pass-Fail, Credit-No Credit, and letter grades. The pressure of competition for grades would be removed and the stigma of failure removed, but recognition could be given to students who do exceptionally well in a course.

A more liberal policy on credit for research should be instituted. Perhaps this could involve filling lab requirements with research done either independently or for a professor, but most certainly it would mean more open-ended lab courses and some equitable arrangement for receiving units for work.

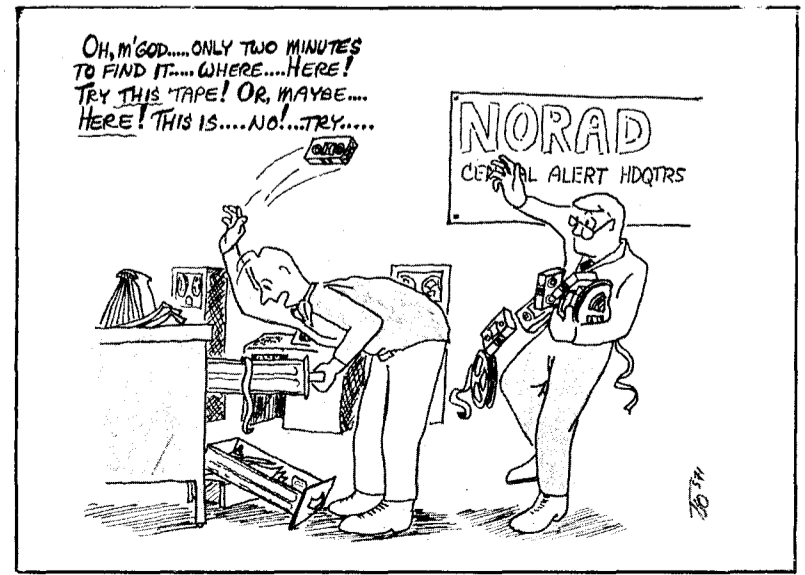
After all, the goal of a Caltech education is to equip the student to make his way in the scientific and technical world. Actual research experience can be a most important part of that education, and the opportunities available to undergraduates here for research are probably unparalleled. We should do more to encourage undergraduates to take advantage of these opportunities.

Restricting freshmen to only four humanities courses should go the way of required Graphics. We see no reason for preventing a freshman who desires to take some course such as Shakespeare from doing so.

Although the rule of reason supposedly governs an institution of science and technology, some exceptions to this rule still persist. Requiring that a student starting a foreign language invest at least 30 units worth of time before having a chance to receive credit towards graduation requirements seems unreasonable to us. So do classes which require perfect attendance, a stricture even P.E. does not impose.

Perhaps some of these ideas, which by no means limit the possibilities, may be instituted. But no progress can be made without an expression of concern from those most affected: all of us.

-Philip M. Neches  
Ira D. Moskatel  
Paul A. Levin



Got family problems?

Peterson Explains Hardship

by Mark Peterson

The 3A hardship deferment may be one of the few remaining deferments if President Nixon abolishes student deferments. This article will discuss who is eligible for hardship deferments and how to try to obtain the deferment.

You are eligible for a hardship deferment if your induction would create an extreme financial or emotional hardship for a dependent. The dependent who suffers the hardship must be your parent, grandparent, brother, sister, wife, child or handicapped person with whom you live. Also, the hardship must be extreme. Since an induction always causes some hardship, the hardship on your dependent must be unusual.

**Financial or Emotional**

The hardship which would arise if you were drafted can be financial or emotional. If you give money to a dependent who could not get along without that money, you have a claim for financial hardship. The dependent can be getting welfare, help from other relatives or other forms of financial support so you do not have to be the only source of support for the dependent. The test is whether or not your support is necessary; if you were drafted your army pay would not be enough support and no one else could make up the lost financial support.

You may also claim a 3A

deferment if you perform necessary services for a dependent which no one else could perform. For example, if you nurse an invalid parent and perform personal services that no other person could perform, your induction would clearly be an extreme hardship on that parent. Finally, you may claim a hardship if a dependent might have a severe emotional problem, or possible psychological breakdown if you were drafted. The emotional dependency claim may be used with any other hardship claim. Thus, even though your claim is primarily financial, a psychiatrist may say that your dependent might suffer a breakdown, rendering them incapable of working and in even greater financial need.

**Discretion of Board**

There are no rules to tell the draft board whether they must give you a hardship deferment — it is completely up to the discretion of the board. Therefore, to get a hardship deferment you must play on the sympathies of your draft board. You must carefully present your hardship situation to them, bringing out all of the heart-rending possibilities.

You should first write a letter to the board, briefly describing the hardship situation which would arise if you were to be drafted. In the letter you should also ask for the "Dependency Questionnaire," S.S. form 118. Keep a copy of the

letter, the completed form and any material submitted to the draft board. When you receive the form, complete and return it within the period of time stated on the first page. The form asks primarily about financial hardship, asking about your income and expenses and possible support from other relatives or your wife. Do not lie on the form but paint as bleak a picture as possible. Remember that other relatives have obligations of their own, so they may be unwilling to take over the support you are giving to your dependent. The form also provides a space for you and your dependent to make a statement. Be sure to complete such statements.

**Form 118**

If you claim a hardship deferment only because you provide either essential services or emotional support to your dependent you should, nevertheless, return form 118 although you may leave the financial questions blank. In the space where you can make a statement, remind the board that you are not claiming financial dependency, but emotional dependency.

No matter what the basis for your claim you must get letters supporting your hardship claim from friends, neighbors, ministers, doctors, psychiatrists, social workers, or anyone who can write about your dependent's needs. The letters should explain how the person is dependent upon you and what could happen to the dependent if you were drafted. Be sure to read the letters before they are sent to the board to make sure they add to your claim.

Got a Red, Black, and Royal hangover?

Bartenders Demand Justice

Gentlemen:

This letter is not one which I enjoy issuing. I find that it will serve no purpose other than publicizing a breakdown in the honor system. Never-the-less I must speak out a warning to the campus.

Saturday night, February 20, there was a party-party held at Lloyd House. We, the bartenders, were in charge of procurement and distribution of Booze. When we took inventory we found that three (3) bottles of whiskey were missing: Johnnie Walker Red, Jack Daniels Black, and Seagram's Crown Royal. This discovery upset us greatly. As a matter of fact it upset us so greatly that we are forced to make the following request: That the bottles or the price (\$24.47) be returned. And the following threat: Any person found behind the Lloyd

House bar, not authorized by the bartenders, is subject to the awful wrath and the painful punishment of same. We will not tolerate the theft of liquor. There will be no appeal. Justice will be swift. If the missing booze is returned or replaced no questions will be asked. If we find out whodunit and he has not returned the desired objects after notification of the fact: He had better give his soul to God because we're going to own his ass.

Bruce Johnson  
Assistant Bartender  
Heavy weight Wrestling Champion  
Vice-President, Lloyd House

Kirk A. Mathews  
Head Bartender  
President Gunslingers Union  
Local 45

**Soap Operas**

After the board receives the completed form and the letters they should give you a personal appearance. If they do not, send a copy of

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NEXT WEEK:

HORROR MOVIES

**Air Pollution****Draft****Course Offered**

As part of its program of development Environmental Engineering Science is offering a new course entitled "Fundamentals of Air Pollution Engineering" (Env. 117). This is the first course offered at Caltech that centers on the problems of air pollution.

The course will discuss the source of air pollution, control techniques, atmospheric dispersion of pollutants, and instrumental and human responses to pollution. Special emphasis will be placed on how human and instrumental "feedback" affects polluters and their control techniques.

The course might look at real air pollution problems similar to a student study that showed that the Pasadena Power Plant would produce under average conditions two to four times the amount of sulfur dioxide allowed by State standards when it burned the high sulfur content oil that it had bought.

Env. 117 will be open to seniors and graduate students with suitable backgrounds including such courses as ME 19 or ChE 103. It will also be offered under the Chemical Engineering option as ChE 117. Professors Sheldon Friedlander and John Seinfeld will be the major lecturers with contributions by Professor William Corcoran and Dr. George Hidv.

Continued from Page Two  
all the information to the state headquarters of Selective Service and ask that they request the board to grant you an appearance. You should bring to the personal appearance your dependent or some other person, such as a minister, who can explain the situation. The board may not listen to the witness, but if they will, he should be helpful. You should be able to elaborate on your hardship claim and answer any questions the board may put to you. Watching daytime soap operas should put you in the proper frame of mind while preparing for the appearance.

If the draft board turns down your claim for hardship deferment, you may be able to get an appeal to the state appeal board. You should use that appeal and add any more material to your file that you think may be helpful. Also, before both your personal appearance and the appeal you should ask to see the government appeal agent. He may be helpful in suggesting what additional material you can present to make your case more convincing. Be careful when you speak to him, however, since he also represents and reports to the draft board.

If you have any questions you would like discussed in this paper by a draft lawyer, write to: Mark A. Peterson 1627 West Washington Blvd. Venice, California 90291

**Alive and well in Pasadena****Service League Helps You!**

by Ralph McGee

It's here, and it's active. "What, you say while munching on a food service hamburger. (umm, umm good). Why the Caltech Service League of course," you incompetent physics troll! To answer your next rhetorical question; the CSL is a 23-year old institution made up of mothers of students, faculty wives and friends of the Tech community who do a lot to keep all of us feeling at home here in the Institute.

With the CSL, it's the little

things that count. Things like providing light-diet foods, pajamas, robes and reading material at the Health Center; things like a free bimonthly checkup by an outstanding Pasadena pediatrician for married students' children up to the age of two, along with free immunizations, behavior and feeding problem discussions. Things like a free baby furniture pool, and other things like a Student Welfare Chairman to give assistance with individual emergencies, whether personal or financial; as well as a

Student Activities Chairman who helps provide tons of assistance with student social events.

Oh! Remember those Christmas dinner invitations and those mysterious boxes of cookies, fruits and other goodies that appeared over the holidays? You guessed it. All from the CSL. Now they're encouraging members and friends of the Tech community to send tickets they are unable to use for any public event to Mrs. Ned Hale in the Dean's office (116 Throop). She sees to it that they get to appreciative students. Also they have other things going — like the poetry readings, theatrical groups, and art, music and dance classes.

And before I forget, the CSL has also done a wonderful job of providing pianos for the Houses, dark room, musical and game room equipment for Winnett, and also financial assistance for the Band, Glee Club and the YMCA.

With all this, what more could they do?

Well, I'm glad you asked because starting Tuesday, March 2nd, the CSL will start a series of color films on Colonial Williamsburg.

And all this is done from gifts and donations from outsiders and from minimal dues collected from the members.

Now that you all know why life is not impossible at Tech, remember that THE CALTECH SERVICE LEAGUE HELPS YOU!

**Leaded Gas**

Continued from Page One

what happens inside an automobile engine, and Dr. Fainman feels that energies should be directed toward research into just what is the best way to reduce pollution from automobiles.

Dr. Fainman suggests that, as an immediate step, Detroit start manufacturing cards with lower octane requirements, and that the level of lead in gasoline be brought down, until an optimum level has been determined (which may be zero). This will result in increased life of the engine and of catalytic emission control devices, as well as preparing the economy for whatever changes may be necessary in fuels to reduce pollution when the necessary research has been completed. Re-

search should also be conducted into engine modification to reduce the level of pollutants given off. The only such work really going on now is with the DuPont Thermal Reactor, which by longer burning and retention times, and more exhaust feedback, cuts emissions by a large factor.

Emphasis should be put, Dr. Fainman feels, on finding out why particular cars produce less pollution than others, rather than just finding ways to produce average drops in pollution (by use of F-310 or whatever). Much work is needed, and the time to do it is now, before it becomes too late to do anything but issue gas masks to every man, woman and child on the face of the earth.

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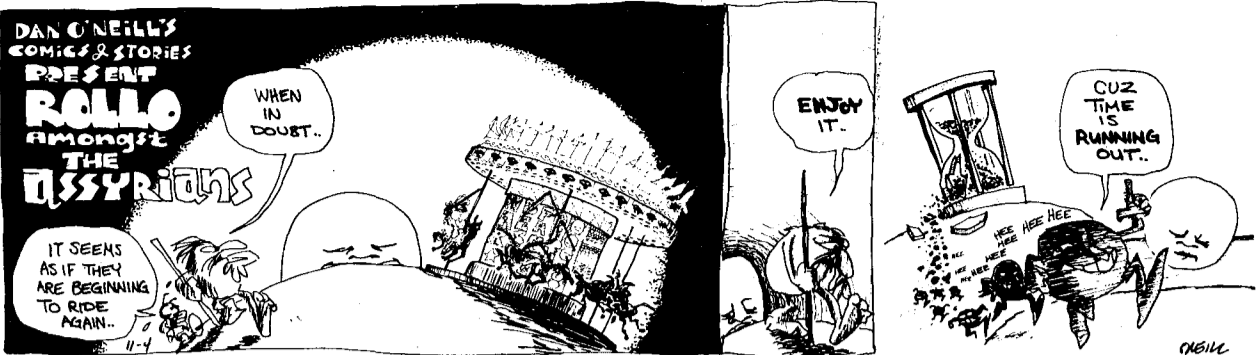
# Clean Car

Continued from Page One

internal combustion engines (ICE) and fueled by natural gas or propane. The gas fueled ICE's finished the race but did not pass the emissions tests. Most of the other cars didn't finish.

Dr. Lees discussed the possibility and feasibility of converting old cars to natural gas and propane fuels. The EQL is currently involved in an attempt to get all of the fleet vehicles in the L.A. basin converted before 1975. The effect of such a program, if successful, would be about the same as five years of having the 1975 new car standards in effect. Since both propane and natural gas are cheaper per mile driven than gasoline, the cost of conversion (\$400 per vehicle) could be recovered fairly soon. Already several large fleets, including those of the city of Arcadia, and Disneyland, have been or are being converted.

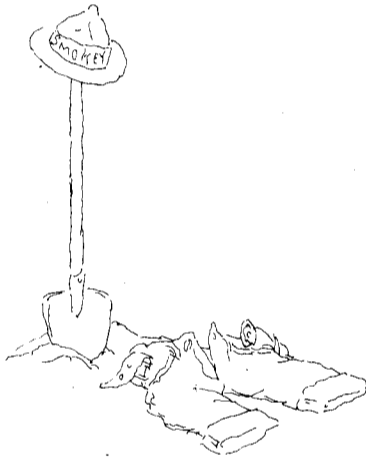
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# Let's get rid of Smokey the Bear

He'd love to go back and be a normal old bear again. And if anyone deserves retirement, Smokey does. Since he's been wagging fingers, the number of forest fires in America has been cut in half. But millions of acres of trees still burned down last year.

And 90% of the fires were started by the same people who have been hearing "Only you can prevent forest fires" for 26 years. We've got to get rid of all those deaf yahoos before we think about putting Smokey out to peaceful pastures.



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FRIDAY —Lunch—New male & female nude dance  
—New act—Sadie: the Complete Sex Symbol, a 402 lb. bottomless dancer  
SATURDAY —Toni Felice in her Lilly St. Cyr Bathtub Act

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We hereby present statements of all candidates for ASCIT offices except that of IHC Chairman, for which no statement was submitted. We urge you to read and consider these statements carefully, since the sort of representation you get depends on your vote tomorrow. "Democracy is that form of government which insures that the people get exactly what they deserve." You will get what you pay for.

## Vice-President: Kirby Dahman

Students' feelings of estrangement from the governing branch of their student corporation are extreme enough today, that a reference to ASCIT is commonly understood to mean only the BOD. This is indeed unfortunate. It is, however, symptomatic of a general lack of faith in the responsiveness, performance, and sincerity of those in office. Sadly, this lack of confidence (sometimes the result of poor communication between ASCIT officers and the students) extends, for some, to the BOC, as well as the BOD. It is because these organizations must be effective if ASCIT is to serve any purpose at all, and that their effectiveness will be seriously imperiled unless countermeasures are taken by someone who is involved with both, that I am running for ASCIT Vice President.

The Vice President's primary responsibility, as stated in the By-Laws, is "to insure the continuance of the Honor System as a vital force among the students." The reason that the Honor System does indeed remain a "vital force" is probably that its basic principles are so well understood. At times, however, questions of limitations or of BOC procedures arise which make it necessary for the Board to come out with policy statements which the BOC feels reflect the

Continued on Page Eight

# Candidate Statements for Pres.

## Marc Aaronson

Many of us came to Caltech with a natural disdain for student government. I think this is because in high school we found that voting typically degenerated into a popularity contest, and that the elected student council was generally quite impotent. However, one thing I have learned in my time at Tech is that ASCIT can be a very effective force for improving Institute life.

Why is it, then, that seemingly so few Techers are enthused for ASCIT. Aside from easy excuses like apathy and high academic pressure, much of the blame lies with the manner in which the Board of Directors have conducted their past affairs. Real dialogue with the students has often been absent, resulting in the feelings of the majority going unrepresented. The problem can be alleviated only when ASCIT officers actively seek student opinion. Making ASCIT more responsive to student desires, doing things that benefit and involve large segments of undergraduates, maximizing the enjoyment of a Caltech education—these are themes I will address myself to if elected as President.

The area of greatest neglect in the past few terms has been with the almost non-existent ASCIT social program. The Executive Social Committee has been a passive body that merely distributes money back to individuals from which it is collected. I think the Committee should begin actively working with house officers and the ASCIT social chairman in the planning of those types of events which a small group or single house cannot normally carry off. The possibility of a permanent social fund should be further explored. Several colleges around the nation receive foundation grants for promoting their social environment, and perhaps a similar source could be tapped for Caltech. With such funding, traditional activities like party-parties, along with several big concerts a year, could be sponsored. A part-time social secretary might even be hired to help with the paperwork. In the end, a good social program

Continued on Page Six

## Andrew Chow

Due to the complacency of the students and the lack of interest and important issues, ASCIT and student government at Caltech will soon cease to exist. This is the opinion held by some people; but why should it be this way? Why is it that the students themselves do not value highly their own organization, the Associated Students of CIT? Without the requirement for every undergrad to join ASCIT, more will find higher marginal utility by spending their ASCIT dues some other way unless ASCIT starts to relate to the students in a more direct manner.

We must first examine the present status of ASCIT. In comparison with student governments at other universities, the influence that students at Caltech have on the faculty and administration is tremendous. ASCIT has utilized this opportunity fully. It is now involved with the Institute in a good deal of decision making such as the independent study program and the planning of the future of the student houses five years from now. It is marvelous that we can have such an impact; but if such is the sole function of ASCIT, we may as well replace it by a giant educational policy committee or another housing committee. We need to have ASCIT working for the immediate benefit of the students. If ASCIT is now doing more for the students than just showing the Friday night movies, the average Tech does not know about these other functions—perhaps due to the lack of communication or the inability of the leaders to reach out to the students.

It is most important for ASCIT to improve the social activities. ASCIT must reach out to the students and relate student ideas and grievances to the faculty—instead of just those of ASCIT officers. Techers are not really apathetic; they can do anything if they want to do it. The problem of ASCIT's functions and relation with the students is like an inflation spiral that has not been started. We need the leadership to get ASCIT

Continued on Page Six

## Alex Seita

As a candidate for ASCIT President, I have the obligation to answer two questions. First, "Am I qualified to become ASCIT President?" And second, "What are my aspirations for the betterment of ASCIT?"

To be effective, the ASCIT President must be proficient in three areas; he must govern and motivate the BOD, he must be sensitive to student opinion, and he must represent ASCIT. The qualifications for the three duties differ.

I believe that my service on the present BOD and the ASCIT Activities, Executive, and Elections committees gives me the experience necessary to move the BOD into action. At the same time, this experience gives me the knowledge to preside over the Board and to have ASCIT activities working together.

The President must respond to student opinion and initiate action to improve student life. During the past year, I have worked with Institute and Faculty offices to present programs such as the Hindustani Jazz Group, Richard Brautigan, *Synesthesia*, guitarist Peter Evans, and the East Bay Sharks. My involvement in campus activities and my weekly reporting about ASCIT in the *Tech* indicates my willingness to fulfill that responsibility.

As the representative of ASCIT, the President must deal competently with the non-student campus and the outside world. As a member of last year's Freshmen Orientation Committee and the present Faculty Committee on Programs, and by my speaking to various high schools about Caltech, I have already represented ASCIT. As President, I can and will continue to represent ASCIT responsibly.

Now for the second question; what do I plan for the betterment of ASCIT? Here, there are two points to consider: the fact that ASCIT as a student organization is inconspicuous, and the fact that ASCIT possesses a tremendous potential to benefit the Caltech

Continued on Page Six

## Steve Watkins

When I left Caltech a year and a half ago on a leave of absence, I didn't think I would ever return to finish school here, let alone run for ASCIT president—yet here I am doing both. I'm sure some people consider me nuts for returning, (there are times when I would agree), but after being away for awhile I began to see how this school is not only a pretty good place for getting an education, but that it has a lot of potential for being even better. This is my reason for running in the race for ASCIT president—Caltech has a lot more potential than is being utilized, and I want to try to develop some of it.

My overall philosophy: to do as much as possible in altering a few areas of academic pursuit—both opening new avenues and changing old ones—and to provide as much of an increased and varied social life as I can.

Specifically, my first priority will be to see the establishment of an independent study program to enable students to design most of their undergraduate education, if they wish. This is first because I think it would represent the greatest single contribution by offering students a radically different choice of education—an education, not with requirements set by a committee ten years ago, but with requirements set by the students themselves and their advisors. Fortunately, thanks to the Academic Policies Committee and Bob Fisher, this program is already near completion. If elected, I will do everything I can to have this program functioning by first term next school year.

Next on the academic list is the creation of an internship program whereby students could obtain a job in government or industry through Caltech while on leave of absence and also receive research units for this work. This would hopefully give a student an opportunity to determine where his interests really lie with respect to future employment.

Finally, I would like to see some major change in Physics 2: either

Continued on Page Six

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BOC Secretary:  
Russ McDuff

Why do I want to hold the position of Board of Control secretary? It is not an easy office to hold. There are the aspects of keeping minutes and records but more important and more difficult is the position of sitting in judgement of very real people using a rather abstract principle: no member of the Caltech community shall take unfair advantage of another member of the community. However, my experience as a house rep. has served as an opportunity for me to gain an increased understanding of both people around me and myself. It has been a chance to be in close contact with the machinery of the Honor System which is a part of Tech which I regard highly.

This is a time of change for the Honor System. There are problems which need to be and I hope will be discussed by the entire community. I encourage you to help the Board be responsive to the feelings of the community by making your thoughts known.

—Russ McDuff

Treasurer:  
Tom Matoi

Members of the Caltech Community:

Let it hereby be known that I am a serious candidate for ASCIT Treasurer. I have an understanding of the duties and responsibilities of the office and sincerely desire to fill the position. Politically, I am a conservative, but I intend to remain open to outside suggestions. As Treasurer, I shall do my best to maintain a line of contact between the student body and the BOD.

Thank you.

Tom Matoi

Student Life:  
Norris Krueger

Greetings to all of you (who are already, no doubt, tired of long-winded political statements)!

If I am elected, I assume the unenviable task of making life more reasonable for all of you. Before I can possibly even hope to succeed at this, I'm gonna have to know what you want!!! I mean, tho can't promise you the Jefferson Airplane, if you want rock concerts or dances - that's what you'll get! (if we have the money!!) Or, maybe you'd prefer that ASCIT give the social budget back to the houses for their use - that might be arranged, also! Remember, ASCIT has an unfortunate tendency to become isolated from student life, so it's up to you and you alone to let us know what you want!!! If I can help it, you'll get it!!!!

—Norris F. Krueger, Jr.

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# President Statements Continue

Aaronson

Continued from Page Five

really requires imagination and a willingness to work, qualities which I feel I can bring to the ASCIT Board.

In the area of academics I have always favored an education that aims at the individual, not the group. I am very concerned with the reasons for which a third of the freshman class leave the Institute before graduating. In this regard, I would like to see the opportunity of spending four years on a credit-non credit basis made available. I question whether or not every student should take the same two year classes in physics and math. For instance non-physics majors could be allowed to take a one year Halliday-Resnick type course in place of the Feynman series. I would also like to work with the administration in setting up an internship program. This would be a plan where students could take a year off and work in government, industry, or at another university.

I am particularly interested in increasing undergraduate research opportunities. Students should be able to substitute independent work in place of required labs. A seminar series could be developed wherein professors come and report on their most recent and exciting work. Perhaps a "student journal" could be printed which would give young researchers a chance to publish their work. A faculty-student committee could be established to seek out and distribute information on research and job openings.

Currently, there are many proposals which have yet to be fully enacted. The success of Independent Studies, the Humanities Tutorial Program, and Huttenback's informal college exchange plan will depend upon strong and creative support from ASCIT. What ever happened to the studies abroad idea?

Ways of improving life in the student houses, without having to sacrifice the advantages we now have, should be discussed. Experimentation with a suite system in the old houses could prove fruitful. Students should be encouraged to individualize their rooms. Compensations for improvements such as corking or wood paneling should be easily available. Perhaps guest rooms could be established where people like the poets who were here several years ago could be constantly visiting. Caltech really lacks a campus wide informal get-together area where students, faculty, and administrators could just come, mill around, and talk to each other. Faculty and married couples might be encouraged to move into some of the houses. It's time ASCIT tried to do something about peevish parking, poor food, and grass on the olive walk.

The above ideas may not all be feasible, but they at least merit the constructive discussion of a responsible student government. In being a past Director of Student Life,

serving on the Board of Directors for a year, and sitting on numerous faculty committees (presently including Undergraduate Student Housing and the Faculty Board), I feel I have gained the experience and knowledge an ASCIT President should have to properly represent the students. However, no government can amount to much without the support, respect, and willingness to help from its constituents. This is what I ask if you vote for me. In return, I guarantee an aggressive stance in the forwarding of student concerns.

Marc Aaronson

Chow

Continued from Page Five

moving and working for the students. ASCIT must go to the students, and we must BRING ASCIT BACK TO TECH.

Joe Rhodes once said that we have to watch out for Nixon for he cannot be trusted. It is now necessary for us to watch out for the next ASCIT president and officers. We must see to it that they fulfill their obligations to the students of Caltech. If we do not care, ASCIT may vanish forever. ASCIT is our student government—it is ours to have and ours to keep. While we are still fortunate enough to have ASCIT, we should make the best use of this organization. Together we can BRING ASCIT BACK TO TECH and make it work for the betterment of the Caltech undergrads.

—Andrew Chow

Seita

Continued from Page Five

community and to involve itself in civil issues.

ASCIT has usually been inconspicuous because students aren't aware of the work that ASCIT is doing and because the BOD keeps itself isolated from the campus. There are simple measures to remedy this situation. The BOD should dine in each house once every two weeks, not seated together but scattered among the house members. The student representatives to the Faculty Committees should report to the students in *The California Tech* so that the committees' achievements are recognized. As President, I will report weekly to the student body about the BOD's thoughts and actions; this will bring criticisms which will enhance the BOD's sensitivity to student opinion.

By these simple measures, ASCIT can become more conspicuous and the BOD can be made

more judicious in acting. Should ASCIT fund PME, the Jam Room, the Glee Club, the Executive Social Committee? Should ASCIT censure Julius Hoffman? Student opinion, if clear and direct, should determine the BOD's action.

I believe in the power of students (ASCIT) and student government (BOD) to accomplish more than mundane trivia.

I can see great benefits in promoting recreational exchanges with other schools in which students' room and board contracts are switched for four or five days. This gives students at Caltech an opportunity to visit a different school and environment, such as Mills College in the Bay area or Prescott College in Arizona. I have been working on this proposal with several schools, and eventually the obstacles of bureaucracy and conservatism at other schools are going to crumble.

ASCIT should cooperate with the Institute in the areas of esthetics and academics. For example, John Bennett's Art & Technology show to commemorate the opening of Baxter exhibits cooperation among the Institute, ASCIT, and the Graduate Student Council. If this demonstration of technological beauty is successful, then, similar events should be sponsored regularly.

In the area of academics, there are innovations to be made. I favor an extension of pass-fail to pass-no credit in which a failing grade is unrecorded on a student's transcript. I would also like to see a student survey of all courses, not just a short review of good courses.

What about future housing for students as the size of the student body increases? The facts about that issue can be gotten from the Institute. To get the answers to students' questions, I will meet daily with a member of the administration, or faculty, or buildings and grounds.

ASCIT should cooperate with other student bodies by aiding a Public Interest Center in which a group of lawyers are supported to combat one or two social menaces. An idea such as this would be constrained in the sense that the funding available would be small, the number of lawyers recruited low, and the social evils combated limited; but I believe this proposal is worthwhile to pursue.

You need an energetic, capable President who has the imagination and drive to better ASCIT. You know about my qualifications and my aspirations. If you elect me, I

will serve you well.

—Alex Y. Seita

Watkins

Continued from Page Five

dropping the requirement for non-physics majors, making it available on a pass-fail basis, or splitting the course into completely separate courses for physics and non-physics majors. There have been hints at some radical change in this course by the Physics Department for next year, but if none are forthcoming, I would like to see what could be done.

On the social side, there are two areas which merit consideration — both have to do with the house system. One is greater use of the houses to increase active social life and the second is making some change of the physical structure.

The house level is the ideal place for organizing and running social events. Events are much easier to organize and to run when one is planning for 70 instead of 700. The problem is that houses never have enough money from house dues to stage a continuously active program unless the students supplement the dues with money of their own. I propose that ASCIT should be able to provide more funds for house activities through the existing Executive Social Committee. These additional funds would come partially from ASCIT dues and partially from contributions which could be solicited from outside organizations, but there would be no increase in ASCIT dues.

The second area of social change would be an attempt to provide some variety in the type of living accommodations. Although it may call for extensive modifications, the idea of suite living for a limited number would merit investigation. This would entail the conversion of several rooms in some of the houses into apartment-type units. This would not be without consideration for the present conditions of overcrowding.

There are no ideas here which would create national publicity, for my concern is in making life at Tech more bearable and not in promoting the name of the school. I have no delusions that only I can do the job as it should be done. The other candidates have the capabilities to try what I will try, if elected, just as every student has. Part of the difference between two candidates is their goals. If I am elected, I know I will be pushing for the goals I have already

Continued on Page Seven

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# Director of Academic Affairs

**Doug Duncan**

Coordinating the students on various faculty committees is, of course, the primary duty of the Director for Academic Affairs. The results of important faculty committee meetings should be made widely and quickly available to students, which hasn't always been the case. I would require the students on various faculty committees to report to me on what happens at their meetings, abstract their reports myself, and have important items included under announcements at the following BOD meeting and in the minutes.

The Director of Academic Affairs can and should do more than this, however. In the very near future, the houses will be receiving copies of "Teaching at Caltech: A Student Evaluation of Some of the Faculty." This survey, which Leo Guibas sent out last year, and which I helped edit, should prove to be very interesting and helpful when plotting your future here at Tech. If this is indeed the case, I would expand it and make it more useful next year, by seeking a wider range of commentary.

Many Techers are discouraged from beginning study of a foreign language here at Tech by the fact that first year language courses offer no humanities credit. Those that do must suffer through 30 units which are essentially without credit. I don't see how this situation benefits either students or the Humanities Department. I have been investigating the possibility of two years of humanities credit being given for two years of study, and I hope to hear positive results soon.

The added flexibility which is slowly being incorporated into the educational procedure here at Tech is a good thing. One idea, which may be both desirable and practical, is the possibility of credit/no credit grading. This would not be a drastic change: grades would be retained, only the grade of "F" would be abolished. If satisfactory work was not done, no grade would be recorded and no credit given. You would have the option (as you do now), of repeating the course — or flicking it in. The difference would be that you would not be penalized on your record for having tried a course that you couldn't handle, or for having to take two tries at learning something. I would certainly like to see this discussed in the future.

These are the types of projects I consider worthwhile work for the Director of Academic Affairs (and to some extent, the BOD as a whole). In addition to working on the above problems myself, I think my experience can help the new BOD work more efficiently as a whole, right from the beginning of its term. If these are the kinds of things you'd like to see done, return me to the BOD as Director for Academic Affairs.

—Doug Duncan

**Sharon Long**

ASCIT by-laws state that the duties of the Director of Academic Affairs are to work with the students appointed to the faculty committees. The position therefore offers a good chance to organize student opinion about education and present it to the faculty.

I am making the assumption that most of the faculty do not hear as much or as often as they should from the students. One reason for this is that speaking to faculty often seems useless. My hope is that, if a few formal channels of communication are made more available, more publicized and easier to use, then the opinions of more students and faculty can be interchanged, especially those who aren't taking the initiative now. Some specifics:

(1) "Ombudsman" committees. The chemistry department has established a group of several professors and student representatives from each undergrad chemistry course, which meets to voice and hear complaints, suggestions, questions, etc. Varying degrees of improvement as a result of this are reported from the different courses, but on the whole it seems to help. I would like to see such committees for other departments as well.

(2) Students on faculty committees. The Director of Academic Affairs is in a good position to assist the students on the faculty committees. One good way to do this is to help the different representatives keep in touch with one another — for instance get information from the Standards and Honors Committee and pass it on to the Academic Policies and Admissions committees. This would increase the capabilities of each individual student as a member of a committee.

Finding out about student opinion in general needs a lot of organization — sure, everyone knows how his friends feel about Physics 2, but as long as this opinion stays unrecorded it can be ignored by people who wish to ignore it. I propose a more formal group of student representatives which would help find out student opinion, perhaps poll it and through the office of the Director of Academic Affairs, present it to appropriate faculty or administration members. This group would ideally be based on the house system.

To conclude, my feelings are that education here could be improved by the students, but only if we have enough organization and momentum to overcome the inertia of the faculty and the apathy of the students. I have many ideas on organization and I am very open to suggestion on what goals to pursue in trying to improve our lot. I would appreciate your vote.

Sharon Long

Candidate for Director of Academic Affairs

# ASCIT Secretary

**Jeff Hurn**

The most important function of ASCIT Secretary is not the performance of the clerical duties identified with the job, but rather the creative participation in molding student life through the BOD. A high caliber BOD is possible this year and my motivation for seeking the office of Secretary is to contribute, with this group, to the invigoration of Caltech student life.

I would push for a large boost in the ASCIT social program. ASCIT should work wholeheartedly to set up more frequent exchanges. If elected I will propose that significantly more money and time be spent in this direction. Ski trips, beach exchanges and other social events should be experimented with.

Academically, Caltech should continue to broaden its scope. The Independent Study program should finally be implemented since it has already been approved and awaits only faculty interest. Why don't we try some practical courses of general interest like cooking, auto repair and carpentry? Momentum should be added to the existing trend toward wide range humanities and arts. The ASCIT research center should be revitalized, as it has been responsible for a great deal of community involvement with Caltech.

Enthusiasm for athletic teams should be encouraged — (what happened to the Football Bonfire?) — for with support comes a desirable campus unity.

If elected I would of course perform the clerical duties of the Secretary, but more importantly I would be an active part of what should be an innovative BOD.

—Jeff Hurn

**John Tristano**

One primary item necessary to the proper functioning of any organization is communication. This is the job of the ASCIT secretary. As ASCIT secretary I will attend all BOD meetings and have the ASCIT minutes published within 24 hours of the meeting whenever possible. I shall handle all the ASCIT correspondence as quickly and efficiently as possible. I will keep the student body and faculty informed of the latest developments related to ASCIT by a weekly article in the *California Tech*. These are functions necessary to properly run this office.

I feel that the office of secretary can better serve the student body's needs by working with the other officers from both ASCIT and the houses. For example, I can work with the Social Chairman to establish a strong, community related social life on campus. To accomplish this I would exercise my responsibility of handling ASCIT correspondence in a more aggressive manner, thus working as a public relations manager. I would help convince girls that they should come to Caltech social events, and keep them informed of these events.

As ASCIT secretary I will sample student opinion on questions of campus, local and national issues, prepare a letter expressing this opinion, and send it to the appropriate people. This will give the student body an effective way of expressing its opinions to the outside world.

In conclusion I will seek new ideas, new answers to changing problems at Tech, while constantly improving on old ideas. My door will always be open to anyone with such ideas, or wanting to help with an idea. VOTE TRISTANO ... FOR A CHANGE

—John Tristano

## Watkins

Continued from Page Six presented; whereas it is probable that many of my aims will be ignored if another is elected. I have no fantasies that I can accomplish all of my goals. Parts of my ideas may be unacceptable to the powers-that-be, and other ideas will probably take more than one year to see completion.

Naturally, I will be open to suggestions for modifications and new ideas if elected; but independent study, internship, change in Physics 2, increased funds for house activities, and physical changes in the houses are my issues of high priority.

—Steve Watkins

## Tech Editors

## Ride Again

Two years ago, the *California Tech* changed from letterpress to photo-offset and started doing its own typesetting. Needless to say, the better part of that first year went to getting used to the increased demands of the new style of printing. The results of many Thursdays bore the markings of that struggle.

Today, you are reading the fiftieth issue published since that minor revolution. In the course of those fifty issues we have solved most of the problems in physically producing a paper every week and have been able to concentrate on improving the contents. We have been able to expand our coverage of campus news and the entertainment opportunities available in the L.A. area. We have initiated an interview series with members of the Board of Trustees and a regular feature for discussion of any issue (the Caltech Forum).

Still, we seek to do more for our readers. We would like to report on the doings of faculty committees, the houses, and many of the seminars, to name a few subjects we feel would be of interest. We hope to write more on local, state, national and international issues. We would like to resume the somewhat abortive attempt of last year to do a regular professor interview series.

We would like to be more and do more, and we would but for the limitations of time and manpower. You can help by contributing articles, which we would be more than happy to print. Letters to the editor and contributions to the Caltech Forum provide alternate methods of having whatever is on your mind appear in our columns. And of course, if you want to join the staff, we'll welcome you with open arms. (We offer the use of a pleasantly air-conditioned office with telephone and graft and corruption privileges (free books, records, movie previews, etc.) plus three units of credit for taking English 15 (Journalism) to staff members).

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The paper is not the private domain of the editors or the staff; it is a service to all members of the Caltech community. Only you can guarantee its continued effectiveness. Help us communicate the various goings-on here, to articulate a diversity of opinions on a spectrum of issues, and to serve the Caltech community better.

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# ASCIT Director at Large

## Peter Davis

Unlike the other ASCIT offices, the office of Director at Large has no major assigned duties. This does not mean that little is expected from him. To the contrary, the Director at Large is expected to be available to receive and to seek out the ideas and desires of the student body. It is then his task to present these to the Board of Directors for discussion and implementation. I believe that my experience as ASCIT EXCOMM Chairman and Amateur Radio Club president qualifies me for these duties. At these two jobs I have learned to work with both the BOD and the Institute, to achieve desired results.

—Peter Davis

## Dahman

### Continued from Page Five

spirit of the Honor System as understood by the majority of students. It is from these statements that a loss of credibility sometimes arises, and the possibility of the weakening of the Honor System. In the past, the BOC has been sensitive to this and, I pledge, will be even more so in the future. Some of the issues now under consideration include non-academic violations of the H.S., the Board's part in handling campus disruptions, the application of the H.S. to non-ASCIT member undergraduates, and the liaison of the BOC with the BOD. I have much faith in the present BOC and find it most encouraging that this board is as interested in the problems and future of those who come before it as it is interested in preserving the Honor System. The healthiest action now for improving the Honor System, would be to increase the informal contacts of the Board with the students to promote better mutual understanding.

The Vice President also has a responsibility as a member of the Board of Directors. In this capacity he can, with the aid of the student body, have almost as much effect on the quality of life here at Tech as he does in his other position. But it should be emphasized that, unless the BOD has the cooperation and backing of the students, most projects attempted will probably fail. Happily, most students do recognize that for Tech to remain a living institution serving the needs of a growing, evolving student body, it must be a responsive, changing institution willing to experiment with new ideas. It is in the interpretation of what the needs are and implementation of the ideas that disagreements, and again, lack of faith arise.

Certainly the need for more diverse and frequent cultural and social opportunities cannot be disputed. Steps have been taken to develop a fund specifically for this that would be under ASCIT control—the money coming from the Institute and sources under the control of the Trustees). I will certainly see that this program does not get bogged down. Along this line, I intend to set up more programs like the TRW exchange of last year to give Tech students an opportunity to better understand the problems and thinking of modern corporations. Beyond ne-or two-day visits, the proposed "internship" in industry and government whereby a student may take a leave of absence for up to a year in order to work in some position in a corporation or, perhaps in Washing-

## Dave Peisner

There is one thing about Tech that will never cease to amaze me. Never have I seen students who ask so much and yet do so little. Presently, they are mad at ASCIT because it isn't doing enough for them. They don't feel they are getting twenty-two dollars worth of services throughout the year. And what are they doing about it? The answer is nothing. In the election to be held tomorrow, there remain some offices which have yet to receive a nomination. In the election a few weeks ago only half of the student body voted. In one of the houses I had to compete with a paper napkin fight while I was speaking. In short the problem is apathy and who cares?

I care! In my speeches to the various houses I believe I proved that I am willing and can do the work that the students demand. I don't think it matters that I am on the Glee Club hula squad or any other activity. What matters is that I'm active and as long as I remain active I shall handle any problems that are presented to me.

What does this mean to you? It means that I can do the odd jobs that don't fall under the other directors' jurisdiction. If you, the students, feel you are being overcharged, then the answer is not, "something should be done." The answer is, "I shall take care of your problem." If I am elected Director at Large, I shall fulfill the obligations of my office.

—Dave Peisner

I would like to develop a means by which students could be made aware of on-campus research opportunities. Perhaps a monthly publication of brief reports of research being done by those professors who need or are using student help, would be useful here.

If Tech plans to expand its humanities department significantly, and attract more psychology, english, and economics majors, then it must also realize the need for simultaneous expansion of the library facilities here and revision of the requirements for graduation (e.g., a different physics course to take the place of Ph 1 and Ph 2 for non-physics majors).

In a different area, the student houses are much to integral to the life of most Caltech students to neglect their possibilities. The barriers to switching houses should be reduced. Some houses perhaps should experiment with combining undergrads and grads, and even faculty, in order to promote an exchange of viewpoints. Other houses could be altered for suite style living. In general, much more serious consideration should be given by the BOD to requests from houses for money for improvements.

The coming year holds much promise for the improvement of campus life and opportunities for all Caltech students. But real progress can only be made if mutual faith exists between the students of ASCIT and those in office. I will do my best to help earn and restore that faith.

—Kirby Dahman

## John Kessides

My knowledge concerning the organization and purposes of ASCIT is limited due to the fact that I have been on this campus for only a few months.

This implies inability for great promises and even some uncertainty whether I will fully succeed in the position for which I am a candidate.

In spite of the fact that I fully recognize the above problem I have decided to run. The reasons for this decision are: (a) The fact that I am willing to work hard and, (b) that I have in mind specific plans for the completion of which I consider myself capable.

I would like to present three proposals, though I most certainly will not limit my services to the student body in my work toward their completion.

Politics is a great adventure, and non-violent political participation is both exciting, and instructive. My first proposal is then the appointment of a special committee whose work will be the attraction on our campus of significant political figures from this nation and when possible from abroad. Exchange programs with American Universities certainly are a great thing, but I believe that an exchange program with European Universities will open up opportunities for even more varied set of experiences. This is my second proposal; I believe it will provide a very attractive opportunity for interaction with European ideas, life and customs. Finally, our life on campus is said to be a monotonous one. In our effort to better things, it might be a good idea to try more informal as well as original social events. Thus my third proposal is the organization of a variety of social events such as folk dancing, poetry reading, political speeches, etc. in the coffee house or somewhere else.

I can give you my certain promise, that I will work hard in order to offer my best services to the student body.

—John Kessides

## Jim Price

The office of Director at Large is not an office with many strictly defined duties. It is rather a position from which the director can shape the tasks that will be accomplished. It is the director's responsibility to ensure that the work he does will be beneficial to ASCIT and to Tech as a whole. The accomplishments of a director can range from little more than simple attendance at BOD meetings to the catalyzation of student action and the realization of many goals for the betterment of ASCIT.

At the present time in CalTech history there is a great need for action by BOD directors. The ASCIT Research Project had its start in recent years and now demands attention toward its continuation and improvement. More important, the need is being felt for new projects in many fields, either of particular interest for CalTech or of concern in today's world.

Specific subjects to be handled within the next year include a review of grading procedures and the opening of new housing opportunities. A recent questionnaire surveyed student opinion on effectiveness of the freshman pass-fail grading system. One alternate system was an A-P-F system, a pass-fail system with the awarding of an A grade for outstanding work. This type of system would provide a motivation lacking in the present system. On the other side, it is the opinion of some that pressures from electives are too great. A credit-no credit system could be started where a failure will result in no official record of the course, thus easing the elective's pressure.

An experiment in widening housing opportunities was started this year. The experiment, Halfway House, was designed to provide Institute off-campus housing composed of freshmen, upperclassmen, graduate students, and faculty. Its intents were to be an alternative to on-campus housing and apartment living and to explore ways to improve on-campus housing with suites and more faculty in the student houses. From all reports it is working well and accomplishing a great deal. First term this year I was a part of a similar housing project, living with seven other undergraduates in an Institute-owned house, thus getting the best of both on and off-campus life. The experience gained in this situation gives me confidence that more housing of this type would be welcomed by a number of students.

Clearly projects like these discussed take work, and can be best performed by the person most willing and able to take effective action while director. A large amount of the work to be done by a Director at Large is in recognizing problems needing action, seeking out solutions, and being open to take required action on behalf of the students. The ability to fill this challenging capacity is not easily gained through experiences outside holding a similar office. I feel that holding the high school office of Senior Class Commissioner, an office with duties like those of Director at Large, has prepared me to best perform the actions required of an effective Director at Large.

—James Price

VOTE EARLY AND VOTE OFTEN



# audience

## emlyn williams

by Pat Dunn

It may not seem newsworthy to review a program that took place in Beckman Auditorium two weeks ago, but when an artist as distinguished as Emlyn Williams is brought to the Caltech campus, some mention, late or not, should be made.

As an actor and playwright of long-standing eminence, Emlyn Williams, at the age of 66, has compiled a list of credits too long to enumerate here. Although his primary association has been with the British stage and cinema, Mr. Williams is hardly a stranger to the American theater. As early as the 1940's several of his plays had gained prominence here — a number of them produced as films of such importance that they can be considered classics today.

Nick Smith

## RECORDS

IN MEMORY OF THE RACE by Robert William Scott

Robert Scott is someone you have probably never heard of. He is primarily a songwriter, and this album is his first. His songs have been around for a long time, however, since they include "A Taste of Honey" and "He Ain't Heavy, He's My Brother." To be honest, he writes better than he sings, since his voice is only a shade smoother than Rod McKuen's. If you like albums which give the songwriter a chance to interpret his own work, then you might like it. If your primary interest is the music itself, you might not.

FANNY by Fanny

Fanny is the first all-girl rock group whose music I really enjoyed. In addition to being talented musicians, they are good vocalists and seemingly excellent songwriters. They do mostly their own material, but take time out to do the Eric Clapton-George Harrison song, "Badge." The only fault that I found with the album was the total lack of informative liner notes about this new group. I think two of the four girls are related, and that those two do most of the songwriting, but I have no idea who plays what or sings. Anyway, Fanny is a good group and a good album.

GRACE SLICK AND THE GREAT SOCIETY (double album)

Presumably, these are the same two records released a year or two ago as separate albums. This repackaging is basically a Grace Slick trip, with the liner notes totally ignoring the Great Society. But then, that's sort of all right, because Grace Slick is still around and the group isn't.

The album contains live versions of "Somebody to Love," "White Rabbit," and "Sally Go Round the Roses" that almost make one

Probably the one most widely-known of these was *The Corn Is Green*, a poignant story of despair and hope set in a dismal mining town in Mr. Williams' native Wales. Often a t.v. re-run, *The Corn Is Green* is as touching today as when the film, starring a young Bette Davis, was released. By the time his play, *Night Must Fall* was being filmed in Hollywood with Robert Montgomery, Mr. Williams was busily enriching the British cinema with such outstanding films as *The Citadel*, *Major Barbara*, *Hatter's Castle*, and many more.

While it is understandable that many young people may not be familiar with Emlyn Williams through his earlier accomplishments, in the light of such an ambitious career, it was surprising to see that Beckman was not filled to overflowing on February 12th, when Emlyn Williams, as *Charles Dickens*, presented readings from eight of Dickens' well-loved stories. In any case, the audience was certainly

question whether Gracie should have changed groups. In addition, the double album includes Dylan's "Outlaw Blues" and a song written by Grace Slick about Lenny Bruce. Columbia had the good sense not to censor the song.

If you like Grace Slick, and if you don't already have either half of the album, then I strongly recommend the purchase of this one. It's a little bit of live San Francisco from before it started getting messed up, and it's the sort of thing that should have gone on forever.

DELIVERIN' by Poco

This is a live album recorded by Poco during a series of concerts on the east coast. In even includes some old Buffalo Springfield music. Either you like Poco or you don't. I like it.

STONEY END by Barbra Streisand

This album is a long way beyond "Funny Girl." Before this album, I never really liked Barbra Streisand as a singer. Now I'm impressed, due to the fact that she has taken songs by Joni Mitchell, Laura Nyro, Gordon Lightfoot, Harry Nilsson and others, and sung them beautifully. Most of you have probably heard the title song, "Stoney End," on the radio. It turns out that that song is definitely mediocre compared with the rest of the album. This is really an album to buy.

LOVE STORY by Andy Williams

This album is a valiant effort by Andy Williams to do a lot of songs that are popular with young people. In some cases he does a good job. In the case of Elton John's "Your Song," he does a fair job. In the case of James Taylor's "Fire and Rain," he should be shot. The title song and a few others are good, but "Fire and Rain" spoils the whole second side.

good sized, and one of the most attentive and appreciative I have seen.

20 Years Ago

It was interesting to learn that the seed for the readings was planted in Mr. Williams' mind more than 20 years ago when he discovered that Dickens himself presented public readings of his works. After devoting a year to research and rehearsal, he appeared on the stage of the Criterion Theater in London as Charles Dickens — his lectern and exact replica of Dickens' desk, the original of which is displayed in the Dickens House in London. So well received was this first solo performance, that Mr. Williams went on to a successful run in New York. Since that time, between other endeavors, he has repeated his Dickens performance to resounding accolades all over the world. Those "other endeavors" have, in recent years, included film appearances — (*The L-Shaped Room*, *Wreck of the Mary Deare*), as well as a large number of television and stage appearances both here and abroad. And, it was Emlyn Williams we provided the t.v. commentary on the Investiture of the Prince of Wales.

100th Anniversary

Mr. Williams' appearance at Beckman was part of his Centenary Tour, commemorating the 100th anniversary of Dickens' death. Included in his newly-revised repertoire were excerpts from *Our Mutual Friend*, (a comical put-down of society as only Dickens could have worded it), *A Tale of Two Cities*, "The Tale of a Little Person" from *Christmas Stories*, *Dombey and Son*, and so on through the evening, as Mr. Williams expertly moved his audience from laughter to suspense to the edge of tears.

Though a slice more Dickens would have been too much for one evening, Mr. Williams concluded his sampler in perfect timing with a spirited and witty rendition of "The Nurse's Story" from *The Uncommercial Traveler*, which delighted everyone. It was a magic evening at Beckman.



## Tech About Town

By the popular demand of one important person, this column returns to bring you a listing of upcoming events. The listings are alphabetical by location, and I think all of the events are evening. A few clubs are included too, but only ones with no minimum age.

The ANAHEIM CONVENTION CENTER is sort of dark for the next few weeks, but at the end of finals week, they have two shows. On March 20, a country-western show, with Merle Haggard and Bonnie Owens. On March 21, James Taylor, Carole King, and Jo' Mama.

BECKMAN AUDITORIUM spends a fortune on their posters and pamphlets. Go read one and make a PR man feel wanted.

The DOROTHY CHANDLER

## Perlman Plays Through Earthquake at Beckman

by K. Mills

Saturday night witnessed the coming of Itzhak Perlman to Beckman Auditorium, and with him an artistry and showmanship which is unique in the world of classical music today. The Israel-born violinist, a graduate of the Julliard School of Music, played works by Brahms, Tartini, Paganini, Sarasate, and Ives, in what would have to be described as a highly unusual concert.

First played was the "Devil's Trill" Sonata by Giuseppe Tartini, an interesting three movement piece which Perlman played well if a little roughly. This was to be expected, as it invariably takes some time for the performer to get into the swing of the concert.

Opus Maximus

Following a brief departure for applause came Johannes Brahms' first sonata for violin and piano (opus 120), on which Perlman did a remarkable job. The sonata can best be described as typical Brahms at its best, in which the melodies are constantly intertwined and moving with the distinctive rhythms that Brahms employed. Perlman seemed well suited for the piece; his technique was impressive, especially in the double stop passages, and his interpretation brought out of the piece its maximum emotional and musical potential.

Following the intermission, Perlman returned to play Charles Ives' second sonata, a very humorous piece scored for three instruments: violin, piano, and page turner. The second movement, according to Ives' plan, is stopped by the page turner slamming his fist upon the music, hence it is subtitled "The Page Turner's Revenge." In the interests of accuracy, and with the full approval of the audience, Perlman and group carried this out. The music itself was impressive and Perlman an exponent of the modern school, played it well. As if to add

to the excitement, Beckman was shaken just a few moments later during the third movement by a 4.3 tremor, which was quite visible to everyone in the audience—except Perlman who kept right on playing.

Technical Ability

After the Ives came three Paganini caprices for solo violin, Numbers 5, 9, and 34. Here Perlman demonstrated his brilliant technical ability in the runs, double-stops, harmonics, and left hand pizzicatos with which Paganini's music abounds. Particularly impressive was Perlman's great clarity with the very high E string trills and sustained notes. The audience gobbled it up—which says something both for Perlman and the timeless appeal of Paganini.

Two pieces by Pablo Sarasate, "Romanza Andaluza" and "Zapateado," comprised the finale, and Perlman, by then really flying, did a brilliant job, especially on the very rapid double stopped harmonics and complicated bowing patterns which the two pieces contained. Needless to say, the audience was sufficiently enthusiastic to get an encore, which turned out to be the "Dance of the Goblins." Half way through this Perlman's violin popped a string, bringing on an unexpected intermission while he replaced it. Upon returning, he was immediately greeted by cries of "from the beginning" from the audience, and the program ended with one and a half performances of the piece, done very well both times.

Performance!

Perlman is at least as interesting to watch as to hear. How anyone can move as much as he and stay off the floor will be an eternal source of amazement to me, but he does seem to manage somehow. The most remarkable part of Perlman's physical performance, however, is

Continued on Page Twelve

PAVILION at the Music Center is having a program of sacred music done in choral and jazz form on February 28, (this Sunday) featuring Dave Brubeck, Lalo Schifrin, and Roger Wagner. The following Wednesday the Pavilion gets stuck with Fred Waring and his Pennsylvanians.

East L. A. Community College has a concert performance this Saturday (the 27th) by the great flamenco guitarist, Sabicas. If you like flamenco, it should be worthwhile.

THE FORUM, in Inglewood, has an all-English show on March 10, with Small Faces, Joe Cocker's Grease Band (without Cocker) and Savoy Brown. On March 23, Santana, Jose Feliciano, and Tower of Power light it up.

THE GOLDEN BEAR (see, I told you there were clubs) in Huntington Beach, features Rosebud (with Jerry Yester of the Spoonful) this weekend, and Hoyt Axton the weekend after.

The Hollywood Palladium is having a dance concert of old time real rock and roll on March 5, featuring (are we ready for this?) CHUCK BERRY, LITTLE RICHARD and THE JOHNNY OTIS SHOW. Seriously, this should be an excellent show for those of you who like or liked rock and roll, or for those of you who just want to find out what it was like. For those of you with more modern tastes, Shuggie Otis will be there on guitar.

THE ICE HOUSE has Tim Rose this week, followed by the Dillards starting next Tuesday. The Ice

House, for those of you who may have forgotten, is a few blocks northwest of the campus, at 24 N. Mentor, and has the lowest admission and most reasonable prices of any nearby club.

THE LONG BEACH ARENA has Quicksilver and Linda Ronstadt this Saturday. She's worth the money, even if they aren't.

THE MARK TAPER FORUM at the Music Center has the Elle Johnson Dance Company on Monday, March 1. They do Afro-Cuban and modern dance, which is more than most of us can do on a Monday.

THE PASADENA CIVIC AUDITORIUM has Fred Waring on March 2, but at least they do better on the 6th. Then they have the First Edition, John Stewart, and Carla Thomas, all reasonably good acts.

THE SANTA MONICA CIVIC AUDITORIUM has Mountain on March 6, followed by Richie Havens on March 14. Iron Butterfly was cancelled.

Doug Weston's TROUBADOUR has whoever their ad says they have. Look for it, because I'm not doing ALL your work for you.

USC's BOVARD AUDITORIUM Firesign Theatre having Saturday 27 is Feb. twice. Do not pass side 5, do not collect pliers.

THE VALLEY MUSIC THEATRE has Lifetime (with Jack Bruce) and Pacific Gas and Electric in concert on March 12.

Last and possibly least, the WHISKEY A GO GO has Red Eye and American Eagle this week, followed by Wishbone Ash and Ned next week. That's all.

# 50 ISSUES OF PHOTO OFFSET

## The CALIFORNIA Tech

Pasadena, California, Thursday, September 25, 1969

### News Briefs

#### Bacher, Anderson, Smith To Retire

Drs. Robert Bacher, Carl Anderson, and Hallett Smith will be retiring soon, thus opening up positions in the administration.

#### Tech Goes Offset New System Hopeful

The California Tech is now being printed in a completely new way. Switching from the old letterpress printing using lead type and half-tone cut metal plates for pictures, the paper will now be high quality.

A second advantage of the process is its economy. Within the past year the circulation was 10,000.

# EXTRA!

Dr. Murray Gell-Mann, professor of physics at the California Institute of Technology, was awarded the Nobel Prize in Physics in 1969.

Dr. Gell-Mann, who is Robert Anderson's successor in the Department of Theoretical Physics, has made major contributions to the understanding of the matter is made of. He has sought to bring order to the recent discoveries of some 100 particles.

His Nobel award, according to Science, is for his work in particle physics.

Man Does Not  
Live by  
Words Alone . . .

Despite the Fact That He  
Sometimes Has to Eat Them.  
—Winston Churchill

## C.E.A.C. Announces Activities for Earth Week

by Paul Wegener

Student Center area, with exhibitors spreading down the Olive Walk and

exhibits, banners and balloons. Here imagination and feelings, emotion

an eco-system.

WE HAVE LEARNED MUCH OF THEIR CIVILIZATION FROM THE INSCRIPTIONS ON THEIR SPACECRAFT. THEY BREATHE OXYGEN, ARE MULTINATIONAL, UNDERSTAND HIGHER MATHEMATICS, AND THE NATION THAT SENT THIS ONE UP MUST HAVE BEEN CALLED "THE D.E. OF I."



Throop Beat

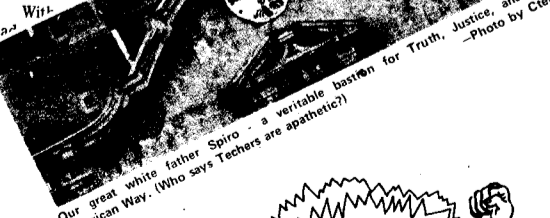
#### Parents' Day May Change

by millikan troll

Freshmen will use eleventh

Parents and other relatives of 126 out of 220 of the freshmen turned out for Parents' Day, to be greeted by a likeness of a Spiro Agnew watch atop Throop. Dr. Wood informs us that nearly 100 attended the day's festivities.

With the help of the Throop Beat, a veritable bastion for Truth, Justice, and the American Way. (Who says Teachers are apathetic?)



SPORTS!



## Coeds Coming Next Year - Trustees Give OK Brown Inauguration Today



imately one for every ten official guests, also started early. They have sort out those people who will procession and send them to the ceremony. All their Nixon, will speak. Then, following in (hopefully) rapid succession will be greetings from Lt. Governor Reinecke, Los Angeles County Supervisor Warren Dorn, Pasadena Mayor C. Bernard Cooper, and representing the academic community Howard Johnson, the

## FRIDAY DECLARED 'OFFICIAL DAY OF MOURNING'

#### Research Project Not Dead

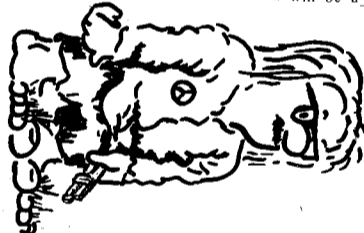
#### ASCIT Still Has Debt

ASCIT Nominations Closed;  
Seven Run Unopposed

#### 'Organized Academic Activities' Suspended; Talks, Groups Planned

After consultation with Dr. R.F. Bacher [provost and vice-president of the Institute], Dr. R.F. Christy has issued the following statement: "Friday, May 8, is declared an official day of mourning at Caltech and all organized academic activities are suspended." Concurrently, Robert S. Fisher, President of the Associated Students of the California Institute of Technology, announced tentative plans for

Threat Ripping  
Hobart??



By Dan O'Neill



## Talk to a Trustee Tech Interviews Arnold Beckman

by Phil Neches  
and Paul Levin  
The Board of Trustees of the California Institute of Technology has interviewed Arnold Beckman, a prominent figure in the scientific community. Beckman, who is currently a member of the Board of Trustees, has been interviewed by the Board of Trustees. The interview was held on Friday, May 8, at the California Institute of Technology. Beckman, who is currently a member of the Board of Trustees, has been interviewed by the Board of Trustees. The interview was held on Friday, May 8, at the California Institute of Technology.



Give me an A  
Give me a P  
Give me an A  
Give me a T  
Give me an H  
Give me a Y  
What does it spell?

WHO CARE

#### Page Two Editorial

#### Extend the Franchise

The Supreme Court has validated the 1969 Voting Rights Act. This act extends the voting franchise to all citizens of the United States, regardless of race or color. The Supreme Court's decision is a landmark in the history of civil rights in the United States. It means that all citizens, regardless of race or color, have the right to vote. This is a significant step towards achieving equality for all citizens.



## Swimmers Go to Redlands, Santa Ana - Are Defeated

by Bob Kieckhefer

Last Friday the swimming team traveled to Redlands for their most important meet of the year, only to lose 71-42. The day began ominously as manager Lorne Schacter's car broke a piston rod, stranding three team members at a Pomona gas station until coach Warren Emery could rescue them and get them to Redlands after the meet had started.

The team's winning strategy suffered its first setback when Redlands won the 400-yard medley relay. Then, in numerous other races, the bathtub-temperature water in the 33-yard indoor pool somehow affected the Techers, giving Redlands some upset victories in close races. Redlands also entered some swimmers who had not officially swum this year, giving them the surprise depth needed to win the meet.

### Have a Good Day

Bob Coleman was the only Tech swimmer to have a good day, as he won the 1000-yard freestyle, the 133-yard individual medley, and the 200-yard backstroke. In the 133-yard I.M. he set a pool record of 1:22.6, so his name will probably remain on the pool record board for a few years. Greg Beall was the only other Techer to win an event, as he won both one and three-meter diving, with Alan Rice taking second in these events.

Jim Jakeway and Tim Hight got the only other Tech seconds, in the 200-yard butterfly and the 500-yard freestyle, respectively. Bob Miller lost his bid for a second in the 66-yard freestyle by the length of his fingernails, and Bob Hall finished third in the 200-yard breaststroke only 0.3 seconds behind Redlands' second man.

### Chilling Bath

The previous Wednesday the swimmers encountered the opposite

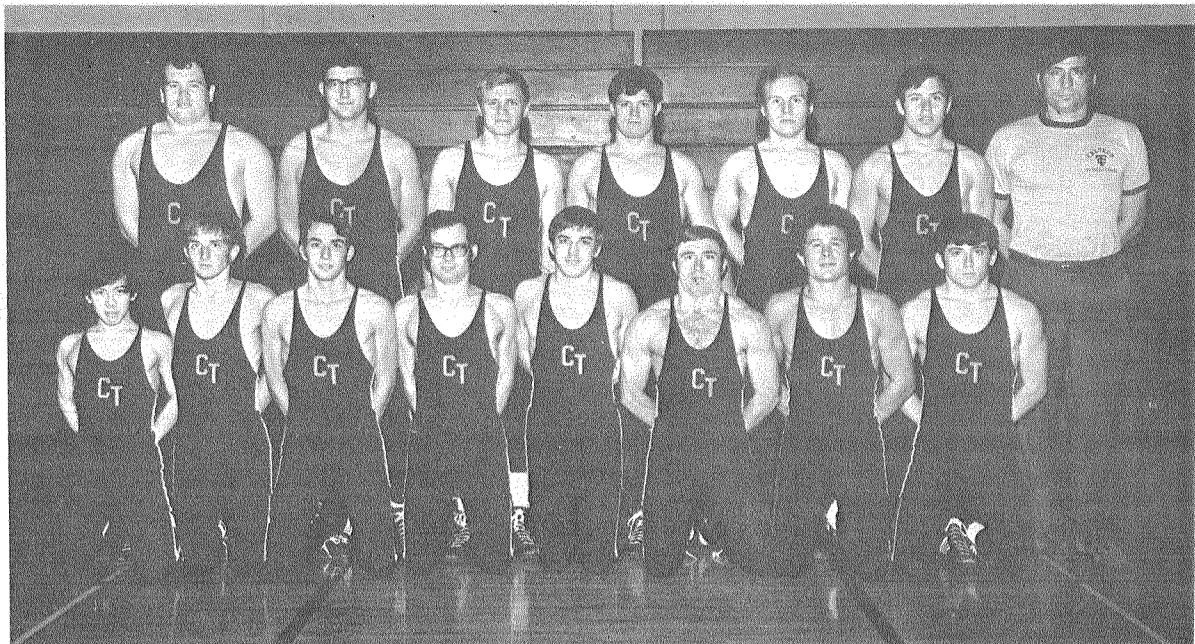
in temperature extremes at Santa Ana J.C., where both the water and air temperatures hovered about 65 degrees, in intermittent rain. (Perhaps Ian and Nancy should question the sanity of distance swimmers Bob Coleman, Bob Kieckhefer, and Bob Harmon, who combined swam over 3600 yards in competition in the bone-chilling water.)

Bob Coleman again won three events, the 1000 and 500-yard freestyles and the 200-yard individual medley. Greg Beall won the combined diving event (scored as two first places), which was mercifully shortened because of the cold water. Tim Hight and Jim Jakway also received firsts, in the 200-yard freestyle (Tim won by a finger's length) and the 200-yard butterfly.

### Seconds

Tim Hight and Lou Fielder received seconds in the 100-yard freestyle and the 200-yard backstroke, respectively. Third places went to Bob Kieckhefer, Max Kay (two apiece), Steve Bitondo, and Tom St. John. Although the final score was Santa Ana 66, Caltech 47, the meet was a close one, with Tech down by only five points with two events remaining.

Tomorrow the swimming team will journey to Palm Springs to take on College of the Desert, where they hope to get nice tans and maybe win, also. Next Wednesday, Thursday, and Friday the SCIAC All-Conference meet will be held at Pomona College. Hopefully, Tech can gain partial revenge for the defeat at Redlands by outscoring them at Pomona. Coach Lawlor Reck predicts that if our "reserve" divers and swimmer go to the league meet, Tech should be able to beat them and finish third. He also hopes that Bob Coleman and the medley relay team will qualify for the NAIA national meet to be held in Pennsylvania during spring break.



## Wrestlers Tie Pomona as SCIAC Champs

by Vincent Fratello

When Coach Gutman came into wrestling practice Thursday, and said that the wrestlers could still take the SCIAC championship, they all thought it was a pipe dream. Admittedly it was technically possible, but it would require such an astounding series of coincidences and achievements as to seem almost unattainable.

The Conference championship is divided on the basis of both dual meets and the Conference tournament. Caltech had had a good season, but the team had lost a few vital meets. Thus the dual meet standings were: Redlands (4-0) 5 points, Pomona (3-1) 4 points, Caltech (1-2-1) 3 points, Claremont (1-3) 2 points, and Whittier (0-3-1) 1 point. The Conference tournament was a whole new contest and Caltech was determined to win it.

Caltech did well in the preliminary rounds. The team placed four people in the finals, and four in the consolation finals, out of eight entries. Pomona, the leader at this point, had just as many—several wrestling against men from Caltech. The Tournament score at this point was Pomona-52, Caltech-50, Claremont-45, Redlands-44, Whittier-36. Caltech had to win nearly all of its matches to win the Tournament. It was then that the team realized it could take the champion-

ship, too. Dual meet champion Redlands was flagging. If Claremont beat them, Caltech and Pomona could be co-champions.

In the consolation finals Caltech wrestlers turned in some tremendous efforts. At 126, Bob Murphree came from behind to win and take a third place. At 142, Ken Bickford wrestled a good match against ex-150 pounder Sadayama of Claremont, but lost. At 158, Ken Walker got off to a bad start when his opponent obtained a 5-0 lead, but he showed his tremendous conditioning by outlasting his opponent and taking third. At 167, Russ Cranshaw, who by this time had quite a cheering section, won by forfeit. This gave Caltech a narrow two-point lead over Pomona, who had sustained an unexpected loss.

In the final round the Caltech wrestlers looked better than they ever had. At 134, Randy Lewis, wrestling with an injured shoulder, handed his Pomona opponent a decisive defeat to become Tournament champion. At 150, Gary Zieve, plagued this season by close matches, outwrestled a good opponent to claim a second championship. Rick Smoody at 190 faced last year's 177-pound champion from

Pomona. At the outset it appeared as if Pomona might dominate the match. Then Smoody astounded spectators with a series of unheard-of moves, bridging out of a guillotine for a reversal and switching successfully to the wrong side. Finally, Smoody, with a good lead, turned his man over and pinned him. Technically this clinched the Tournament. To put it on ice, heavyweight Bruce Johnson pinned his opponent, who had previously nearly beaten him in the first round. This gave the team 4 championships and 3 third-places. The final score, Caltech-71 (5 points), Pomona-61 (4 points), Claremont-58 (3 points), Redlands-57 (2 points), and Whittier-41 (1 point).

The final Conference standings were then: Caltech-8, Pomona-8 Redlands-7, Claremont-5, Whittier-2, with Caltech and Pomona as co-champions. As the result of astounding efforts on the part of all members of the team, Caltech had repeated as SCIAC champions.

This Saturday Caltech will try for a repeat performance at the Division Tournament at Cal Lutheran. Winners will go to Nationals in North Carolina.

### Baseball Team

### Starts Off Season

### With Win

by John Tristano

The undefeated Caltech baseball team opened its season by roaring to victory Tuesday over Dominguez Hills by a score of 10 to 2. The team played errorlessly as the pitching staff held Dominguez scoreless through 7 innings. The Beavers struck early as Tom Howell, the lead-off batter, tripled. He later scored on Dave Turner's sacrifice fly. In the third inning Jerry Feely tripled and scored on Turner's second sacrifice fly. In the fourth inning, Tech broke it wide open, scoring seven runs. The scoring for the inning was concluded by Turner who hit a three-run homer. Tom Howell finished off the pitching yielding two runs in the 8th inning. Dave Turner was the game hero, pitching 5 scoreless innings while collecting 5 RBI's. The team visits LIFE next Saturday for its first double header of the season.

### Caltech Runners

### Come in Last

by Martin T. Smith

Occidental won the S.C.I.A.C. Relays Saturday in the usual runaway. With a surprisingly strong showing, Pomona finished second, boosted by the home crowd. Whittier, Redlands, Claremont-Harvey Mudd, and Caltech followed in that order.

Caltech found its best places in the four, by one mile relay and the triple jump, where the quartet of milers and trio of jumpers each brought home second places. In the sprint relays (4 X 110 yards and 4 X 220 yards) and the mile relay (4 X 440 yards), Caltech runners managed fourth places. In field events, the javelin throwers and long jumpers took fourth places.

On Saturday, the track team hosts its first home meet, facing conference rival Claremont-Harvey Mudd, in a meet the team really wants to win.

### Basketball Team

### Upset by Redlands

by John Tristano

The Caltech Varsity Basketball season concluded last Saturday with the Engineers falling in defeat to the league champions, Whittier. Although it ended with a defeat it was the best season since 1963. Redlands captured last place in the league this year, ending Tech's 7-year domination of the position. Next year's freshman class better have some big people in it though, as Tech's rebounders Hansen, Heinz, Koenig, and Bruce Wright all graduate this year.

Junior Varsity started the season off with an impressive victory, but losing Meadows and later Galetar hurt them, as they could not win another game all season. Some games had very few players—one game had only five.

Interhouse Sing

# Ruds Win Big

by Philip Massey

Last Friday's Interhouse Sing (which may be known henceforth as Beatty Night) was the latest in the annual event, and possibly the least-entered one; only Ruddock, Blacker and Flemming entered choruses.

The Ruddock chorus, directed by Kelly Beatty, won the award for best chorus for the second year in a row. They began the evening singing "To Thee, Oh Lord," "River is Wide," and "Jamaica Farewell."

There were two "quartets" entered: The Ruddock House Quartet, and the Ruddock House Sextet. Oddly enough, Ruddock won in this event, specifically, the Quartet. It was composed of Dave Wellman, Wes Munsil, Bill Derrik, and Kelly Beatty.

The random events were pretty random this year. The team of Joanne and Kelly won in this category, receiving among other valuable items, a dinner for four at Roma Gardens.

Following the other performances, the Caltech Glee Club gave another of their famous renditions of "Marry a Woman Uglier Than You." They sang it considerably better than they did a few weeks before when they toured all the houses.

The judges for the evening were Profs. Jenijoy LaBelle, James Morgan, and Dean Dave Wood.



# Perlman

Continued from Page Nine

his facial expressions. It is almost as if the notes will not quite get out without sheer physical effort, and this comes through in the facial contortions he goes through. Perlman is without doubt a showman—almost a ham at times—and he almost immediately sets up a rapport and communication with the audience that give his concerts a light, pleasurable atmosphere.

Perlman was accompanied by Samuel Sanders, an excellent pianist who teaches accompaniment at the Julliard School. Sanders was as much fun to watch as Perlman, maybe a little more, and the two made an excellent team. Sanders was particularly adept on the Brahms and Ives Sonatas, which are by no means works for violin solo, and it would be accurate to say that he contributed as much to the performance as Perlman did.

All in all, a night to remember.



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