**News Briefs**

**Dubridge to Reflect On Science, Politics**

Dr. Lee Dubridge, former Scientific Advisor to President Nixon will present "An Honest Look at Science and Politics," next Wednesday, March 3, to the Chemistry and Sociology departments, and the Hillel Club. 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 these 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 equal protection of racial groups, teacher relations, political and financial control of the public schools, and school administration. Tuition will be $20. Help is desperately needed for the planning and execution of both these courses. Students are urged to pick up the information cards that will be distributed in the course.

**Hillel Will Eat It and Send It to Watts**

This Tuesday, at noon, at Dabney Gardens, members of the Hillel Club will have a boxed lunch to discuss issues important to all of us. Such issues will include the UZWF 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**

Arts and Modern Man and Existentialism and Modern Man (cur- rently History 161 and Philosophy 3) will be combined and taught under the instruction of Professors R. Hett and R. K. Rozenstone.

**Floralis**

A lecture on flowers, given by Margaret F. Logan, Marcie Rozak, and Freud, will be given next Monday at 7:00 p.m. in the Minnaert Union. Not only will these flowers be available for sale, but the course will study the history and philosophy of existentialism in the modern world. It counts as humanities credit.

**Society and Chemistry**

Gasoline Lead Problem Discussed

by John Fisher

Last week's topic in the Society and Chemistry program was "The Problem of Lead in Gasoline." Speaking was Dr. Morton Z. Faiman, an associate professor in the chemistry department of the California Institute of Technology. The presence of lead in gasoline poses many serious potential health hazards, says Dr. Faiman. An increase in the level of lead in the environment, such as is caused by lead from air emissions, will seriously affect the environment 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. Faiman feels it would be unwise to mount 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 fires in 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. (By hydrocarbons, if etherealistic, program to improve our environ- ment can be costly and may result in more damage than they prevent.) Lead has existed in automobile fuel since about WWI, when tetraethyl lead complex was 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 SO2 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 lead in the laboratory 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 car as the engine runs. We are sadly lacking in real, quantitative data.

Continued on Page Three

**Creative Writing**

**Totem Returns; Needs Material**

by Philip Massey

Caltech's creative writing (and assorted other things) magazine, The Totem, has returned to the plane of existence after a rather extended leave of absence. However, what might be desired is 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 celebration of the 100th birthday of Edgar Allan Poe, and will feature articles on Poe's short stories, pictures, drawings, and, of course, a special section on Poe's verse. The magazine was brought back to life because it was felt that there was a need for something like it, that some people here most occasionally write something worth people should be able to read. Lots of people will probably send Totem back into obscurity, this time perhaps permanently.

If you have material, bring it to the Tech office (and mark it "Totem") so it doesn't accidentally wind up, on the first page of the next newspaper, give it to me, or leave it in the M box at Ruddock.

Subscription sheets will be appearing in the houses shortly.

Continued on Page Four

**For cleaner engines...use propane**

Clean Car Conference

by Malcolm Handte

Who were all those people that were looking at a flossick-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 Environmental Quality Lab (EQL), spoke on some of the general problems involved in the control of chemical pollution and a greater (ugh!) level of nitrous oxides emitted.

Graduate students Michael Lane- berry, captain of the 1971 Caltech Clean Air Car Race team (to which Easterling was faculty advisor), and John Roesler, captain of the Caltech-MIT electric car race, each spoke enthusiastically of their own teams and the competition. 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 propane.

**Advertising**

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

**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

**Beckman on Beckman**

It's 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 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 episodic seizures that could not be controlled by other means. The corpus callosum, 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 emotions, sensations, and memories. Nobel Laureates, even seniors, were affected. Of course the magazine brought back to life because it was felt that there was a need for something like it, that some people here most occasionally write something worth reading. Lots of people will probably send Totem back into obscurity, this time perhaps permanently.

If you have material, bring it to the Tech office (and mark it "Totem") so it doesn't accidentally wind up, on the first page of the next newspaper, give it to me, or leave it in the M box at Ruddock.

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Continued on Page Three
**Peterson Explains Hardship**

by Mark Peterson

The 3A hardship deferment may be one of the few remaining devices that 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 cause you to incur financial or emotional hardship for a dependant. The dependant 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 for the dependant must be unusual.

Financial or Emotional

The hardship which would arise if you were drafted could be financial or emotional. If you give money to a dependant who could not get along without that money, you have a claim for financial hardship. The dependant 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 dependant. The test is whether or not your support is necessary; if you were drafted your army pay would not be enough support, so you could make up the lost financial support.

You may also claim a 3A deferment if you were to be drafted. In the event of a breakdown in the honor system, the hardship on your dependant could be getting welfare, a dependent who could not get help from other relatives or other sources. The form also requires you to bring out all of the heart-rending possibilities.

Finally, you may claim a hardship if your income and expenses and possible support from other relatives were the only source of support and no one else was able to give you a personal appearance. Justice will be swift. If the theft of liquor. There will be no out of the heart-rending possibilities.

You should first write 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 "Dependancy 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 it and return it within the period of time stated on the back page. The form asks primarily about financial hardship, asking about other relatives or other possible support from other relatives or other sources. No lie on the form has 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 psychologist may say that your dependant might suffer a breakdown, rendering them incapable of working and in even greater financial need.

**Division B**

There are no rules to tell the 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 case to them, bringing out all of the heart-rending possibilities.

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Air Pollution Course Offered

As part of its program of development Environmental Engineering 117 is offered, a junior 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.

John Seinfeld will be the major professor and George Hidv. the major professor. He may be helpful in suggesting what 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.

Dr. Fainman feels, on finding out why particular cars produce less pollution than others, rather than just issue gas masks to every man, search should also be conducted finding ways to produce average energies should be directed toward human responses to pollution. 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.

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Incendive material you can present by a draft lawyer, write to: Mark A. Peterson, 1627 West Washington Blvd. Venice, California 90291

If you have any questions you may be necessary in fuels to reduce pollution when the necessary research has been completed.

Continued from Page One

Ledged Gas

Continued from Page Two

by Ralph McGee

It's here, and it's active. "What, you say while munching on a food service hamburger, (yums, 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, things like a free student social events. Also they have other things going — like the poetry readings, theatrical groups, art, music and dance classes.

And before I forget, the CSL has also done a wonderful job of providing pianos for the Houses, dark rooms, musical and game room equipment for Winnett, and also financial assistance for the Brand, 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!

VISIT THE CALTECH BOOKSTORE
Get Your Favorites at Big Discounts!

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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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MONDAY—All amateur talent show
TUESDAY—Toni Felice
WEDNESDAY—Adrienne's Space Odyssey Show
THURSDAY—Adrienne in the Vibrating Bed Show
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 Bath Tub Act

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We hereby present statements of all last year's Freshmen, except that of HJC Chairman, for which no statement was submitted. We urge you to consider these statements carefully, since the sort of representation you vote for today will determine what they deserve. You will get what you pay for.

Vice-President: Kirby Dahl

Students' feelings of estrangement from the Board of Trustees stem from a twofold branch of their student corporation are extreme enough today, that a reference to ASCIT must be 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 faith in the leadership and the responsiveness of the Board (or of its students) extends, for some, to the BOD, as well as the BOD. It is because these students feel estranged and that if ASCIT is to serve any purpose at all, and that their effectiveness will be limited unless con-

continued on Page Eight

Candidate Statements for Pres.

Marc Aaronson

Many of you 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 popu-

larity 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 so few Technicians are enthused for ASCIT. Aside from easy excesses like 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 most interesting aspect in the past few terms has been with the almost non-existent ASCIT role in house affairs. The Social Committee has been a passive body that merely distributes money back to house officers and is not involved. Several collidings around the nation receive foundation grants for promoting their social environment, and perhaps a similar source could be tapped for Caltech. With such funding, tradi-

tional activities like 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 involvement in student Council and the ASCIT social activities.

Andrew Chow

Due to the complicity of the students and the lack of interest in important issues, ASCIT and student government at Caltech will soon cease to exist. This option 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 Student Council of CIT? Without the requirement for every house 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 compari-

son with student governments at other universities, the influence that students at Caltech have on the faculty and administration is tremen-
dous. ASCIT has utilized this opportunity fully. It is now in-

volved 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 house five years from now. It is marvelous that we can have such an impact; but if such is the function of ASCIT, we must replace it by a giant educa-
tional 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 Technician 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. Technicians are not really apathetic; they can do anything if they want to do it. The problem of ASCIT's functions and relations with the student opinion and influence spiral that has not been started. We need the leadership to get ASCIT involved with the students.

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

To be effective, the ASCIT President must be proficient in these areas; he must govern and motivate the BOD, he must be sensitive to student opinion, and he must represent the student viewpoints. The qualifi-

cations 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 persuade 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 the Institute and Faculty officers to promote programs such as the Hindustani Jazz Group, British & Irish, Synesthesia, guitarist Peter Erskine, and the East By

Sharks. My involvement in campus activities and my weekly reporting about Tech in the Teck indicates my willingness to fulfill that responsibility.

As the representative of ASCIT, the President must be intimately involved with the non-student campus and the outside world. As a member of the 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 reasonably.

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 inconsequential, and the fact that ASCIT possesses a tremendous potential to benefit the Caltech student opinion and initiative.

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 manage the-leave I was done for. I'm not a candidate for ASCIT president—yet here I am doing both. I'm sure some people consider me nuts for running off of several occasions (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 the courses and funding old ones—and to provide as much of a varied and improved social life as possible.

Specifically, my first priority will be to see the establishment of an independent study program to en-

able students to design most of their undergraduate education, if they wish. This is first because I think it would represent the greatest educational opportunity for students offering a radically different choice of education—an education, not with requirements set by a committ-

ee of seniors 5 years ago, but with requirements set by the students themselves and their advisors. Fortu-

nately, thanks to the Academic Policies Committee and Bob Fisher, this program is already in comple-

tion. I feel 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 employ-

ment.

Finally, I would like to see some major change in Physics 2: either the continued on Page Six

Continued on Page Six
**President Statements Continue**

**Aaronson**
Continued from Page Five
really requires imagination and a willingness to work, qualities which I feel I 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 an opportunity spending four years on a credit-pon credit basis made available. I realize whether or not every student should take the same two years classes in physics and math. For instance non-physics majors could be allowed to take a one year Halliday-Reynard type course in place of the Feynman series. I would also like to work with the administration in setting up an internship program. This kind of intercollegiate courses could take a year off and work in government, industry, or at another university.

I am particularly interested in increasing student research opportunities. Students should be able to substitute independent work for lab report. This kind of series could be developed wherein professors come and report on their research. 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 distribution 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 Hutterbach's informal college exchange plan will depend upon strong and creative support from ASCIT. What ever happened to the students abroad idea?

Ways of improving life in the student community are still not being explored. I would sacrifice the advantages we now have, should be discussed. Experimentations with the old houses could prove fruitful. Students should be encouraged to individualize their rooms and ideas for replacements for improvements such as cooking 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. Problems of this type might be encouraged to move into some of the houses. It's time ASCIT tried to do something about it...like parking, poor food, and grass on the olive walk.

These ideas may not all be feasible, but they at least merit the constructive discussion of a responsible student government. I am a past Director of Student Life, serving on the Board of Directors for two years, and sitting on numerous faculty committees (presently including Undergraduate Student Committee on the Physics Board), I feel I have gained the experience and knowledge an ASCIT President needs.

However, no government can amount to much without the student's 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
majority of the candidates are 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 office bearers as well as their success. ASCIT is our student government—it is ours to have and ours to keep. While we still are fortunate enough to have ASCIT, we should make the best use of this organization and not let it fall back. What's to keep ASCIT BACK TO TECH and make it work for the betterment of the Caltech undergrads?

Andrew Chow

**Seta**
Continued from Page Five
community and to involve itself in civil civils.

ASCIT has usually been incomp­ nacy awareness 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 could invite a group of undergraduates every two weeks, not seated together but scattered among the house members. The BOD representa­tives to the Faculty Com­ mittees 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 con­s pious 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 deter­ mine the BOD's action.

I believe in the power of students (ASCIT) and student government (BOD) to accomplish more than mundane tasks. ASCIT is a powerful tool to visit a different school and environment, such as Prescott College in Arizona. I have been working on this proposal with student representatives, and I can see the obstacles of bureaucracy and con­ servatism at other schools are going to become even more important.

ASCIT should cooperate with the Institute in the area of aesthetics and academics. For example, John Bennett's Art & Techno­ logy show to commemorate the opening of Baxter exhibits co­ operation among the Institute, ASCIT, and the Graduate Students Council. If this demonstration of tech­ nological beauty is successful, then, significant steps should be supported.

In the area of academics, there are important issues to be resolved. I favor the extension of pass-fail to pass-no credit in which a failing grade is recorded on a student's record. I would also like to see a student survey of courses, not just the usual student comments.

What about future housing for students as the size of the student body increases? The facts about that issue can be found in the literature. To get the answers to student concerns, I will meet daily with a member of the administration, or faculty, or build­ ings and grounds.

ASCIT should cooperate with other student bodies by aiding a student organization of lawyers. This group of lawyers are supported to combat one or two social menaces. I am personally constrained in the sense that the funding available would be small, the members have to work part time, 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 bring to ASCIT. You know about my qualifications and my aspirations. If you elect me, I will serve you well.

--Alex Y. Seta

**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 lecture and lab 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 — the housing and the dining system. One is greater use of the houses to increase active social life and the other is to upgrade the 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 continuous active program unless the students supplement the dues. I have my own solution. I propose that ASCIT should be able to provide more funds for house use and increase the funding from the Executive Committee. Then additional funds would come from a variety of sources, and partially from contributions which could be solicited from outside organizations, and that there would be no increase in ASCIT dues.

The second area of social change would be an attempt to promote some variety in the type of living accommodations. Although it may be limited by existing regulations, the idea of suite living for a limited number would merit investigation. This would enable the corporation of some rooms in the houses into apartment-type units. This would not be without consideration for the present conditions of overcrowding.

In terms no ideas here which would create national publicity, for my concern is in making it a better school, and increasing the name of the school. I have no delusions that only I can do this, but it should be done. The other candidates have the capabilities to try what I will try. But, just as every revolutionary, I have the desire to change this. 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, an important part of my job as Director of Academic Affairs. The results of important faculty committee meetings could not be made widely and quickly available to students, which hasn’t always been the case with our student body. I’d like to see that students on various faculty committees report to me on what happens at their meetings, have their reports myself, and have important items included under announcements at the beginning of each BOD meeting and in the minutes.

The Director of Academic Affairs can and should do more with 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 Gulbs sent out last year, was one of which I helped edit, should prove to be very interesting and helpful when combined with the faculty committee reports. If this is indeed the case, I would expand it and make it more useful, perhaps by making a wider range of commentary.

Many Techies are discouraged from participating in university life by the 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 think 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 have 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 in you do not wish to repeat 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 any experience can help the new BOD work more efficiently as a whole, right from the beginning of its term. I would like to see Techians things you’d like to see done, return me to the BOD as Director for Academic Affairs.

Sharon Long

ASCIT Secretary

Jeff Hurn

One of the most important functions of ASCIT Secretary is the proper functioning of any organization. This is the job of the ASCIT secretary. As ASCIT secretary I will attend all BOD meetings and have the ASCIT monthly 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 in the California Tech. These are functions necessary to properly run this office.

I feel that the office of the 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 Chairmen 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 to the appropriate people. This will give the student body an effective way of registering its opinions to the outside world.

In conclusion I will seek new ideas, suggestions for modifying problems at Tech, while constantly improving on old ideas. My door will be open to anyone to whom I might have such ideas, or wanting to help with an idea. VOTE TRISTANO FOR A CHANGE.

—John Tristano

Jeff Hurn

For a Change

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 monthly 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 in the California Tech. These are functions necessary to properly run this office.

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—John Tristano

Watkins

Continued from Page Six

presented by the California Tech. It is probable that many of my aims will be ignored if another is elected. I have no illusions that I can accomplish all of my goals. Parts of my ideas may be unacceptable to the powerstructure, 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

John Tristano

Candidate for Director of Academic Affairs

Two years ago, the California Tech changed from letterpress to photo-offset and started doing its own print work. Personally, I feel 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 move. Many of the problems of those fiftieth issues have solved the most of the problems in physically producing the paper, and we 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 (the Caltech Forum).

Still, we seek to do more for our readers. We would like to try to find the right methods for taking 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 news. We would like to resume the somewhat abortive attempt of last year to do a regular sports front for our paper.

We would like to be more and do more, and we would for the limitations of time and manpower. You can help by contributing articles, which we would be more than happy to print. You could as the editor and contributions to the Caltech Forum provide alternative methods for this purpose. Please write on your mind appear in our columns. And of course, if you want to join the Forum and write anything, please write on open arms. (We offer the use of a pleasantly air-conditioned office with telephone and draft and corruption privileges (free books, records, movie previews, etc.) plus three hours of staff time to write an English 15 (Journalism) to staff members).

We need your support. This means more than just your vote tomorrow; it means your continuing support of the news that we print to the readers. We need your thoughts, your criticisms, your articles. 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 world and let us articulate a diversity of opinions on a spectrum of issues, and to serve the Caltech community better.

—Philip M. Neches

Peter W. Beckman

Paul A. Lein

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February 25, 1971

THE CALIFORNIA TECH
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 a lack of leadership.

I care! In my speeches to the various houses I believe I proved that I am an individual who 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 am active and as long as I remain active I shall handle any problems that are presented to me.

This implies inability for great

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 by which students could be made aware of on-campus research opportunities would provide a more varied type of experience.

This is my second proposal; I believe we would provide a very attractive opportunity for interchange 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 even 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.

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 are 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 occasional 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 ofnees in today's world.

Specific subjects to be handled within the next year include a review of grading procedures, the opening of new housing opportunities. A recent questionnaire surveyed student opinion on the effectiveness of the freshman pass/fail grading system. One alternate system is 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 prerequisites and electives are too great. A credit-no credit system could be started whereby a failure would result in an 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 intent was to be an alternative to on-campus housing and apartment living and to explore how to improve on-campus housing with suitable and more faculty in the student houses. From all reports it is working well and accomplishing a great deal. This year the office of Director at Large 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 experiences 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 seeing that new opportunities are developed. To take a director's time away from the accomplished. The ability to fill this challenging capacity is not easily gained through experience and one must hold a similar office. I feel that holding the high school office of Social Class Commissioner, an office with duties like those of Director at Large, has prepared me to best perform the action required of an effective Director at Large.

Dahman

Continued from Page Five

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. The office of Director at Large is expected to be available to receive and to seek out the interest 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 American Student Association President qualifies me for these duties. At these two jobs I have learned to work both with the BOD and the Institute, to achieve desired results.

Page Eight

ASCIT Director at Large
Perlman Plays Through Earthquake at Beckman
by K. Mills

Saturday night witnessed the coming of a new conductor to the Los Angeles Philharmonic: 100th Anniversary

Mr. Williams' appearance at Beckman was part of his Centenary Tour, commemorating the 100th anniversary of Dickens' death. In cluded in this newly-revised repertory was the world premiere of "The Tale of a Little Person" from Christmas Stories, Dombey and Son, and Oliver Twist. Mr. Williams expertly moved his audience from laughter to suspense to suspense to suspense.

Though a dice more Dickens would have been too much for one and all, one is grateful for theFanny Fanny Fanny the first all-girl rock group whose music I really enjoyed. In addition to being talented, the three girls make you feel something is happening.

This album is a live recording by Poco during a series of concerts on the West Coast. The group has been praised in 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 track on the radio. It turns out that this 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 he has loved. 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.

Perlman Placed Plays Through Earthquake at Beckman to the excitement, Beckman was shaken just a few moments later by a tremor, which was quite visible to everyone in the audience except Perlman who kept right on playing.

Technical Ability After a few seconds, three Panamax capriccios for solo violin, Numbers 5, 9, and 14. Here are some stretching, technical ability in the runs, double-stops, harmonics, and left hand passages of Perlman's music abounds. Particularly impres sive was Perlman's great clarity with rough passages and the unexpected sustained notes. The audience gobbled it up—wishing some bought both the Perlman and the timeless appeal of Geminian.

Two pieces by Pablo Sarasate, "Fandango" and "Zapateado," comprised the finale, and Perlman, by then really flying, played a rapid double stopped harmonics and complicated bowing patterns to perfection. It was at this point that Needless to say, the audience was sufficiently enthusiastic to get an encore. Perlman chose "Dance of the Goblins." Half way through this Perlman's violin pop ping and sliding notes left the audience pleasantly surprised.

From the beginning, the audience, and the program ended with Perlman at the audience, done very well both times.

Performance! Perlman is at least as interesting to watch as to hear. How anyone can stand to sit there and be bored off the floor will be an eternal souce of amazement to me, but he does it. Perlman's smile, his most remarkable part of Perlman's physical performance, however, is continued on page twelve.

The California Tech
Page Nine

Perlman Plays Through Earthquake at Beckman

Saturday night witnessed the coming of a new conductor to the Los Angeles Philharmonic:
Give me an A
Give me a P
Give me an A
Give me an T
Give me a Y
What does it spell?
WHO CARE

Dr. Murray Gell-Mann, professor of physics at the California Institute of Technology, was awarded the Nobel Prize in Physics for his work in theoretical physics. His Nobel award, science, is for.

FRIDAY DECLARED 'OFFICIAL DAY OF MOURNING'

Research Project Not Dead
ASCIT Still Has Debt
ASCIT Nominations Closed; Seven Run Unopposed

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

Parents' Day May Change

Parents and other veterans of 120 out of 220 of the freshmen turned out for Parents' Day, to be greeted by a likeness of a Spiro Agnew watch atop Throop. Wood informs us that nearl...
Wrestlers Tie Pomona as SCIAC Champs

by Vincent Fratello

When Coach Gutman came into wrestling practice Thursday, and said that the wrestlers could actually 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 (3-1-1) 2 points, and Caltech (1-2-1) 0 points. 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—35, Caltech—30, 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 championship.

Baseball Team
Stars Off Season
With Win

by John Tristano

The undefeated Caltech baseball team opened its season by routing Occidental 18-0 in the opening game of the season on Wednesday. The team played erratically as the Beavers struck early as Tom Howell, the leadoff batter, tripled. He later scored on Dave Turner's sacrifice fly. In the third inning Jerry Feely tripled and scored on Turner's sacrifice fly. In the fourth inning, Tom Howell broke it wide open, scoring twice. The scoring for the inning was concluded by Turner who hit a three-run homer. Tom Howell finished off the pitching by 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.

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, Whitman. 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 men in it though, as Tech's rebounding Haban, Koenig, and Bruce Wright all graduate this year.

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

Baseball Team
Come in Last

by Martin T. Smith

Occidental won the S.C.I.A.C. Relays Saturday in the usual fashion. With a surprisingly strong showing, Pomona finished second, boosted by the home crowd. Whitman, 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 miles and trio of jumpers each brought home second places. In the sprint relays (4 X 180 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.
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." They sang it considerably better than they did a few weeks before when they toured all the homes.

The judges for the evening were Prof. Jenjoy LaBelle, James Morgan, and Dean Dave Wood.

Perlman

Continued from Page Nine

Perlman was without doubt a showman without sheer physical effort, and this comes through in the facial expressions that give his concerts a light, pleasant atmosphere. Perlman was accompanied by Samuel Sanders, an excellent pianist who teaches accompaniment at the Juilliard 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 Beethoven 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.

Congratulations to the IH Sing Winners

End of an Era: The Everly Brothers

As part of its "nostalgic" appeal the record cover lists a group of questions about the '50's, ending with, "Aren't you glad the 50's are over?" This should be changed to "Don't you with the Everly Brothers would quit butchering the 50's music?"

FRANK D. CLAY & SON

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