Assemblyman, Architect to Speak Soon

by Claude Anderson

Caltech Assemblyman Walter Karahian will speak on Peace Reform in an Olive Walk Talk tomorrow afternoon. He is currently serving as chairman of the Select Committee on Prison Reform and Rehabilitation in the Assembly. Mr. Karahian graduated from the USC School of Law in 1963, and holds a masters degree from USC's Graduate School of Public Administration. He has been very outspoken on the subject of prison reform. The economic viewpoint is an important one. He sees that we are spending taxpayers' money and destroying lives "by teaching prisoners skills they will never use or by lack of any teaching at all."

And he is also concerned with the influences of the prisons on the prisoner. "In California, where lesser offenders are mixed with hardened criminals, longer sentences often undermine the rehabilitation and make the crime problem more severe."

Urban problems in the second and third worlds will be the subject of a drop-in seminar at 3:30 in Winnett next Tuesday. Leading the discussion will be Karol Poloniyi, head of the Department of Town Planning and Architecture in Budapest. Besides his work in Budapest, he has planned the capital city of Africa. The second and third worlds refer to the Communist countries and Africa. Poloniyi will talk about such problems as ecology and design. At 7:30 he will speak in the Athenaum on "Problems and Progress in the Modernization of Hungary."

News Briefs

Caltech, Others Plan Study on Co-op Computers

USC, Caltech, and UCLA announced today that they are studying the feasibility of sharing such installations as computing centers for greater efficiency and economy. Joint use of libraries and other major academic facilities also is being considered. Because success in such efforts might have significant national impact encouraging other universities to consider similar sharing, the National Science Foundation has just announced a grant of $144,200 to USC, Caltech and UCLA to help expedite their study of computing. These cooperative efforts were started last fall with the help of a grant from the Rockefeller Foundation.

Dr. Z. A. Kaprielian, USC Vice President for Academic Planning and Research, Proust Robert Christy of Caltech, and Vice Chancellor David Saxon of UCLA are leading the investigation of potential benefits their campuses might receive if certain

Anzaldo Selected to Head YMCA

Pete Anzaldo has a new job. He's been named President of the YMCA of Southeastern Districts. He took over last week. The Y decided to supplement the office of the President with an eight-man Excom. The new Excom members are Dave Collier, Jim Cross, Jack Goldstone, Elwyn Loh, Haywood Robinson, Ed Schroeder, Price Warren and Steve Watkins. Any- wise with ideas for Y programs get in touch with these people before it's too late. (Note: Finals week is too late.)

Caltech Hillil Seder Coming

Caltech Hillil is coming down from its very successful Purim party this Monday. Caltech Hillil is pleased to announce its Third Annual Kosher Passover Seder, to be held in the Athenaum on Wednesday evening, March 29. For further information or to make reservations (sorry, but you must have a reservation) call Ted Hurwitz, ext. 2453.

Hillil is still sponsoring Israeli folk dancing classes at 7:30 p.m. Sunday evenings, and will continue to do so over term break, so you have no excuse for not stopping by.

NOTICE: Sale of Electronic Goodies

There will be a fantastic sale of electronic miscellany in Winnett Clubroom 2 starting at 3 p.m. tomorrow.

Weingart Sees Solar Energy As Cheaper Future Power Source

by Gavin Claypool

The potential methods of energy generation are environmentally damaging and will soon become inadequate quantitatively, according to Caltech physicist Jerome Weingart in a recent Academic Monday Night Lecture entitled "Harnessing the Sun."

His solution? The development of cheap, clean solar power, a source that—until recently—had existed seriously in only science fiction and scientific dreams.

Conventional fossil fuels cause land to be ugly and unarable because of strip-mining techniques. Later, the burning of the fuel generates both heat and unhoned particles, the latter usually ending up in the atmosphere. Estimates of the time remaining before the coal and oil will be used up are around 100 years. Instead, he says, "We should not consider any one source as the sole source for the future. We should develop various energy sources to allow us a wide range of choice."

Here We Go Again...

New BOD Sets Goals

by Jim Hugg

ASCIT Secretary

The new BOD is attempting to make ASCIT a viable organization, capable of responding to the desires of the student body to produce needed change. There is, in my estimation, a reasonable chance of accomplishing this lofty goal if you are willing to help and if the BOD is willing to get off its butt and work for the students. I believe that the BOD will prove itself equal to this task.

Under Joe Morin's leadership, the BOD is working on many projects to benefit Techers; all we ask is a little help from our friends. Too often past BODs have shown great potential, demonstrated remarkable courage in passing budget allocations, and then stagnated for the remainder of their terms of office. I believe that this BOD will prove this BOD to be different.

We are placing responsibility for generating new ideas with the ASCIT Excomm and with the IHC. But individuals must be the primary sources of innovation. Tell your house president all your gripes, half-baked ideas, and brilliant observations. He will see that the BOD gets the message. Or, if your idea deserves more immediate attention, present it directly to the BOD.

We will meet every Thursday afternoon at 4 p.m. in Winnett Lounge. All Techers are welcome. If you have something to say, you will be given a chance to talk. You are welcome to simply observe or to participate to any degree of involvement. As a bribe, refreshments will be served.

This column will appear frequently to enlighten you on the activities of the BOD. Also an agenda will be printed for the Thursday afternoon meeting. In order that the agenda appear in the Tech on mornings of BOD meetings, all items to be included must be received by the Select Committee on Prison Reform

ASCIT Excomm Needs People

The purpose of the ASCIT Executive Committee is to recognize, investigate and discuss the long range and immediate problems of ASCIT. If you would like to be on the Excomm, please send your name and campus address to Peter Davis, Diehly House. Continued on Page Seven

Scripts - Tech Dance Coming

ASCIT is co-sponsoring a dance with Caltech at Scrpps. The Band will be Viva, the same band that played at Walpurgis Night. The dance will be Friday, March 3, at Wilbur near Frankel.

ASCIT Excomm

continued on page eight

Electronic Goodies

The present methods of energy generation are environmentally damaging and will soon become inadequate quantitatively, according to Caltech physicist Jerome Weingart in a recent Academic Monday Night Lecture entitled "Harnessing the Sun."

Dr. Weingart visualizes small automobiles powered by solar energy and traveling at 80 mph. A more conventional electric automobile could have its batteries charged by a house top solar energy converter.

He pointed out that solar energy is not an automatic solution to the problems of pollution and energy production. The federal effort on the part of science is needed to make it economically feasible.

Dr. Weingart believes that research leading to large-scale uses should be intensified. "The development of new sources of energy is essential," he stated. "We appear to be entering a period when energy has been cheap and abundant to a period in which it may be expensive and limited."

However, Dr. Weingart does not think that we should expect solar energy to become the main source of power within the next 100 years. Instead, he says, "We should not consider any one source as the sole source for the future. We should develop various energy sources to allow us a wide range of choice."

Indian Power

continue on next page

continued on page eight
Yes on Referendum

Early last month, a petition was circulated by various students calling for a change in Resolution III. The proposal demanded that the four-dollar filing fee for ASCIT office be specifically donated to the Dean’s Cultural Fund or the Caltech Y. The petition was presented to the BOD on February 7, where it was accepted without a vote. At a subsequent meeting (Feb. 22) it was discussed and defeated 2–3. By ASCIT bylaws, the proposal was to have been brought before the student body for a vote, within fifteen days of the initial presentation.

An election should have been held February 22, or earlier. However, the former Board, in their last weeks of office, decided to dump the responsibility on the new BOD, thus delaying the constitutional process and violating their own oath of office. (“I do solemnly swear that I will support the By-laws...” – do you remember saying that?)

We feel that the old Board was unjustified in its actions, both legally and toward its constituents. However, that’s all water under the bridge now. The new Board plans to hold the referendum as soon as the new Election Committee can be appointed. What is important is the decision, not the parliamentary pussyfooting that preceded it.

We urge a YES vote on the proposal. Traditionally, the filing fees (totally about $100) have been used by the outgoing BOD for a Direct-action Fund. We feel it is unfair that a required fee is spent in a way that benefits no one but the BOD. On the other hand, turning the funds over to the Dean’s fund or the Y could potentially benefit every member of ASCIT.

But further than that, we would like to see filing fees eliminated. We see no reason for charging a person to run for office, except to persuade people not to file as a joke. Surely the BOD can come up with another alternative other than monetary penalty to discourage election rowdiness. It might be the first step to wiping it out altogether, by creating an effective ASCIT operation.

--Gavin D. Claypool
Peter W. Beckman
Jeffrey J. Mallory

New BOD, New ASCIT?

About a term ago The California Tech published an editorial entitled "Is ASCIT Worth Saving?" It was written in response to a situation that had many people worried. Many students thought that ASCIT was not worthwhile, some were threatening to drop out of the organization, and even the BOD had realized that it was not doing its job properly.

Today, we have a new Board of Directors and a new opportunity to make ASCIT a worthwhile student organization. Of course, it is traditional for new administrations to enter office full of hopes and fantastic promises. Generally, they go sour in the face of apathy or apathy or official disapproval, and the Board ends its term doing nothing and caring less.

Whether this will happen this year only time will show. Fortunately, at their first meeting the members of the new BOD approved two administrative changes which show a real concern for the future of the corporation and a real desire to bring ASCIT back to the students. The first changes the place and time of the BOD meetings to Winsnett Lounge, four to six p.m. on Thursday. This move is intended to open up the meetings to the general student body. Second, the BOD’s had followed exactly the opposite course. While open in theory, their meetings had tended to be closed in fact since the Board seldom went to the trouble of actively encouraging student participation. This, coupled with late or nonexistent minutes tended to cut the BOD off from the students and inevitably helped lead to the stagnation of the organization. Secondly, an agenda of the topics to be discussed at each BOD meeting will be published in The California Tech the day of the meeting. Thus, the students will be aware of what the BOD will discuss, and anyone who wishes to give his opinions on one of the listed subjects need merely drop in at that afternoon’s meeting to do so.

In themselves these changes are trivial, but their implications are not. They show a strong desire on the part of the BOD to bring the members of ASCIT into a more active participation in the organization. As such the Tech approves of them; we are not asking the students to blindly support these or any other moves of the BOD. If past experience is an example, the Tech itself will undoubtedly lock horns with the Board several times in the coming year. But we do ask the students to get involved: without discussion and more direct student participation, any accomplishments by the BOD will be meaningless, and ASCIT will truly be a waste.

--Peter W. Beckman
Gavin D. Claypool
Jeffrey J. Mallory

A Quarter Century Ago...

Four hundred Caltech students were involved in a weekend "get-out-the-vote" campaign concerning the Tournaments Park proposition. The proposal called for the release of the park from the city to the Institute. The campaign was a success; however, spring break intervened and the Tech never published the results. Judging from the current state of the listed subjects need merely drop in at that afternoon’s meeting to do so.

The Beavers track team out-lasted Oxy to win the conference relay by a scant margin of 1.4 points. Big Don Tollman won the shot put and placed second in the discus to lead the Tech spikermen.

And this random space filler appeared.

A student, while working in class, filled a test tube with HCN gas. He took a big whiff and felt over stell.

Frankly Speaking

by Phil Frank

The bad, the ugly
Starring: CLINT EASTWOOD + CARTOONS
7:30 p.m. in Baxter Lecture Hall
Admission: 50c--ASCIT members and their guests; $1.00--anyone else

Next Week:
The second-best secret agent & the caper of the golden bulls

In honor of the Chinese year of the rat...
THE CALTECH FORUM

WRangler thinks Americans spend too much for clothes.

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Woebernder the "W" is silent.

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Wrangler's doing something about it.
They're giving you what's so hard to get these days. What you pay for. Wrangler Jeans

Pickwick Western Wear - Burbank
The Paddock Shop - Burbank

THE CALIFORNIA TECH

H--BACK

Continued from Page Two
these appointments or offer students some very stimulating and important courses.

It is quite true that one of the major purposes in applying for the Mellon Endowment was to facilitate the bringing of visitors in the creative arts to the campus for varying amounts of time, and in future years a significant portion of the funds available will be devoted to this purpose.

—Robert A. Hutenhauk

The estimate will be made of benefits that might result from sharing of facilities as compared with the cost of further development of individual computing centers.

NATIONAL COMPUTER COMMUNICATIONS NETWORKS which have been proposed will also be considered as well as the use of commercial installations.

A first report of recommendations will be made in six months to President John Hub bard of USC, President Harold Brown of Caltech and Chancellor Charles Young of UCLA. The NSF grant sets an 18-months time limit on the entire study.

THE CALTECH FORUM

Continued on Page Six

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Imagine the U.S. at the turn of the century. The land is prosperous, with food, shelter and security for all. The environment is preserved as well – by eliminating the environment! It has all been cut into half-kilometer lots, packaged in see-thru geodesic domes and launched into deep space for preservation.

A fantastic premise perhaps (at least I hope so), but one which makes for an entertaining and disturbingly believable movie. With direction and effects by Troubadour (of 2001 fame) and music by Peter Schickele and Joan Baez, Silent Running is all too realistic. And Bruce Dern, playing the Freeman Lowell, puts in a fine performance in his first major role.

The movie opens in a forested glad with birds, bees and bunnies abounding. Lowell is shown swimming in a shaded pool and feeding the animals dressed in a simple grey robe. The image is right out of St. Francis. A very sylvan scene indeed. But the bucket upon which Lowell is sitting, is made of steel mesh, and as the camera draws back, the sky fills, not with clouds, but with a geodesic dome – stars – and the rings of nearby Saturn.

Gradually details fill in. Lowell is one of six “forest” domes on the nose of the Valley Forge, one of a fleet of true deepspace ships. Launched by the U.S. at the beginning of the new century (they never do say which one), the ship has no mission to preserve sufficient samples of America’s dying natural environment to allow restocking of the Earth’s wilderness when (hopefully) the pollution problem is finally solved. Unfortunately, after eight years in space, Congress apparently decides that it is no longer interested in the program, and the crews of these half-dozen ships are given the following orders:

First, jetison all the forests. Second, detonate nuclear destruct mechanisms on each to remove any forest of earth. Their Odyssey begins.

Silent running is a WW11 term describing the behavior of submarine crews to avoid detection. Lowell ejects spare supplies to simulate an on-board accident, runs a neat miss with the rings of Saturn and hopes the fellow ships will either assume him dead, or be unable to find him if they send out a search and rescue mission. Earth’s last forest ranger has as his crew three drones named by him Huey, Louie and Dewey. More about them later. The major part of the picture is occupied with this lonesome voyage. How it ends is best left as a surprise, but I will say that I found the ending both original and artistically satisfying.

It is of a disappointment not to certainly be your standard grade B movie plot. Inevitably, this movie will be compared with 2001. After just one viewing, I am hard put to say which is better, but some comparisons are possible. Artistically, 2001 had a more sweeping theme, but I feel that the plot of Silent Running is far superior. As a total work, Silent Running seems to work together more coherently. It certainly does not seem to be overwhelmed by technology as is 2001. 2001 is SCIENCE fiction; this movie is science fiction, with real characters and a real plot.

Technology and special effects are not lacking, though. The Valley Forge is very impressive. Although shaped vaguely like the Discovery of 2001, this ship is a full five kilometers or more in length. With artificial gravity. And a com deck that puts the Enter priate to shame and is sure to cause EEIs in the audience to experience multiple organs on the spot. And then there are the drones. These are three foot high, bipedal self-contained robots. They are friendly, mobile, a little bit dumb (but very quick to learn with the help of reprogrammable insertable brains.) I prefer to think of them as mechanized munchkins. The only good word for them is cute.

I do have a few complaints about the movie. First of all, Troumball should know that when couplings open or engines or exotic fluids fire in space, they don’t make any sound. Also, the Saturn ring passage is very poorly executed. The shots are a little bit distant, not very accurate, and very definitely believable (especially since the plot does not absolutely require it). But there are minor faults. In what is otherwise a superb movie, I strongly urge you to see it. I shall, several more times.

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THE CALIFORNIA TECH
The Critical EAR

This column features the reviews of four records, which rate yes, two maybes and a no, as far as whether one should consider buying the album. Herein, this column will follow that general format, with explanations given.

The record rating is a yes if there has been one for a couple of months, but just didn’t get review ed when it came out. “Shake Off the Demon” by Brewer and Shipley, is an excellent album of guitar and vocal harmony, as well as showcasing several excellent songs, including “Hanneans,” “Stainless,” “Chevedor” and “Oh Susanna.” His inclusion of horns, especially trombones and tubas, as background for a basically blues style of vocals, is both unique and effective. The reason that this album does not rate a definite yes is that Taj Mahal’s own compositions are less than memorable, to the extent that I can’t remember even the tunes after a few hours. “Columbia Columbia.”

Another Maybe goes to Nils Lofgren and Grim with their album, which has a rock side and what they call a country side. Neither is spectacular, and this is something of a disappointment after all of the hype that Nils Lofgren received when he hit the music scene about a year ago. Anyway, the rock side has some nice music in the songs “White Lies” and “Slippery Finger.” The dreamy side is also good, with “Sometimes,” “Lost a Number” and Graham Nash’s great appearance in vocalist on “Hi, Hello Home.” The album as a whole is good, but no better than a lot of other albums that come out. (Spanday 2/11/73)

The No goes to “Farther Along” by the Byrds. This album is such a tremendous disappointment that it is even difficult to describe its characteristics calmly. It is a sort of the same stuff that was on “Byrdsynastics,” although farther along the road to degradation of the music that once made the Byrds a musical force to be reckoned with. The only memorable song on the whole album is “America’s Great National Pastime” and I’m not sure I’d find that one of significance if I had not heard it several hundred times on the radio before and after the album was released. It does, however, have one of the great lines in American musical history. “One of America’s great national pastimes is cutting the grapes/Grubbins’ some ass/And livin’ too fast.” Special Award goes to the Columbia engineer who attempted to bleep the word “ass” and allegedly failed. (Columbia KC 31030).

Did Canteen put asphalt in the lasagna again??

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Page Four

Pasadena Library Holds Arts Fest

Live jazz, experimental films and arts and crafts festival will be held in Pasadena Public Library Auditorium, 285 East Walnut Street on Friday, March 3, at 7:30 p.m.

An exciting new jazz quartet, Mike Morris and Windows will perform original modern jazz compositions. The musicians include: Tom Canning on piano, recently pianist for Sonny and Cher; Paul Smith, formerly on bass for Wolf Wolf, Jimi Hendrix and traditional, Seeger, former with the rock group “The Power Fon.” Mike Morris, singer, songwriter, who has performed with Stan Kenton, Woody Herman and Mark Levin’s Jazz Ensemble. Mike Morris and Windows has played at the Ice House in Pasadena.

The experimental film program will include: a half-hour of short films created by cinema students from Pasadena City College. The films have been selected by Dave Phillips, cinema instructor at PCC. They will begin at 7:30 p.m.

Arts and crafts by public and private high school students from Pasadena will be display in the Library’s Auditorium and Main Hall from March 3 through March 5. Departments of art and art teachers from the schools have gathered together the best

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Continued on Page Five

Page Five

Thursday, March 2, 1972

A "the only rock opera worthy of its billing:"

"...In a major stage presentation...

Limited Engagement Feb. 22 thru Mar. 28

"A special event of the season - a half-hour of the best of the best in all media!

AQUARIUS Theater

TUESDAY, MARCH 1, 1972

About the Mail

Dramatic Duo

by Etoin Schroedle

Can anybody remember a more beautiful voice-singing? Definitely, an evening listening to two beautiful voices, singing solo and ensemble, and bringing down the house. Should you go? The musical fortune of the Beckman Auditorium patrons present at last Saturday's dual recital of Mary Costa and Shirley Verrett. Singing dramatically, with some blunders and breathtaking numbers, capturing the audience, entertaining with a carry-cot, Miss Costa and Verrett gave a performance of a sort not often seen.

Blazing their way through a program including works by Mozart, Brahms, and the unjustly-forgotten Purcell, so, supplely supplied by some random scenes of models found in the movie from time to time. But in all fairness to the creators of Le Corbusier, it must be noted that this film was of great interest in its own right.

The Greek Temple was an excellent film for those who have a growing interest in Greek Architecture. It detailed every part of at least six different temple ruins, showing where and how every single brick was laid.

Blackout The Cubit Epoch, and Garmara – DADA will be screened. Both topics are fairly different, and hopefully, the films will be better than last week's.

Spectrum Productions

Debuts in March, Brings Amphiony

Spectrum Productions, the newly formed, paraprofessional theatrical organization at Caltech, makes its debut with performances of Amphiony by Moliere, in a new English translation, on Thursday and Friday, March 30 and 31, at 8:30 p.m. in Ramo Auditorium.

The legend of Amphiony dates from Homeric times: Jupiter, in love with Alcmena, the husband of Amphitryon, leaves him a son and then vanishes. Alcmena is pregnant, and Amphiony is plucked — more or less — from the wreckage. The myth tells the audience: The offspring will be none other than Hercules, the greatest of all heroes.

The cast includes Justin Frady (Amphiony), Abel Franco (Jupiter), Mike Otton (Mercury), Susan Burke (Alcmena) and others. Shirley Day (Eurystheus) is technical director and in charge of the sets.

Tickets are now on sale. For information, call 793-7043.

Art Show

Continued from Page Four

and most representative student art work from each high school. Featuring art works in many media, the exhibit will include: ceramics, jewelry, marquetry, paintings, drawings, and photos -by students and faculty such as John Muir, Blair, Pasadena, Fault Hill, St. Andrew's Polytechnic, and Tongva Park.

This all-media festival is sponsored by Pasadena Public Library Young Adult Services. There is no admission charge.
Dear Jeff Mallory:

I wish to express a strong objection to the way your enclosed news story is slanted.

Would Beverly and the other Ricketts members be less hurt if you had simply said they were set upon (or attacked)? Why was it necessary to say "Mexican-Americans"? Would you have said Irish, or Scotch or German? I think not.

These are the things which create unnecessary hostilities. It also tells a thing or two about you.

Why were four Mexican-Americans labelled "gang". If these 4 were a gang, were the 3 Ricketts students not also a gang? Think on it.

You and others like you should try to create an atmosphere of good will to improve the relations of people and bring harmony and peace to our world.

Regardless of a man's race he should be punished for his wrong doing.

Sincerely,

Mrs. Eulah Johnson

It was a big disappointment to me to read the two letters referring to my alleged misuse of the terms "Mexican-American" and "Chicano" in last week's issue of the Tech. I had hoped that people on our campus, by some strange force, were more understanding and less prejudiced than the rest of the world. I am sorry that I must write this reply.

The East LA community is largely made up of members of the Raza. In their newspapers and other publications, they proudly refer to themselves as Mexican Americans and Chicanos. In short, they identify with those names. Our pride in being Terceros and our identification with that label is just as valid, criminal, and sinister as that of the Chicanos. Talking with several students and one of our two Mexican-American students, I found no offense was taken at my article.

My motive in using these two names in my article was solely for purposes of description, according to the information given me. Had the attackers been Anglo, they would have been described as a white gang. I regret that there are those who interpret any use of a minority group's name as degrading, and can only say that it is their inference, not my implication.

This issue is a main part of the racial problem today, and it is part of our responsibility to try to correct this. I am not unbiased, and I do not like being prejudiced, but I do think this dispute has made me look a little closer at what I believe in. In this year of elections especially, it would be a good idea if everyone re-examined their beliefs.

-Jeffrey J. Malloy

Lear Comes To Ramo

Bill Lear, of jet, electronics and steam car fame, will be on campus next Monday, March 6. Lear has a series of meetings with Dr. Brown and EQL and CAPC people, as well as an open discussion to be held in Ramo Auditorium at 4:00 p.m. The seminar is planned to start with a talk by Lear on his steam turbine work at Lear Motors, and close with a question and answer session.

Does the planet Jupiter, which resembles a small, frozen star, radiate more energy than it absorbs from the sun? Is it self-illuminating to some extent? These are the key questions which will be answered when the Pioneer F spacecraft flies by Jupiter at a distance of some 150,000 miles some time near the end of 1973 to give man his first close look at that giant planet.

The spacecraft is scheduled for launching from Cape Kennedy between Friday (Feb. 27) and March 13.

The amount of heat that Jupiter radiates will be measured by infrared detectors in an experiment conceived by Drs. Guido Munch and Gerry Neugebauer, professors at the California Institute of Technology, and staff members of the Hale Observatories.

"If Jupiter is radiating more heat than it obtains from the sun, the most likely source of the heat is the slow contraction of the entire planet and the consequent release of gravitational energy," said Dr. Munch, principal investigator of the infrared radiometer experiment for the National Aeronautics and Space Administration.

Jupiter is the largest planet, more massive than all the others combined and 318 times more massive than the earth. Although it is nearly ten times the diameter of the earth, it is only about one-quarter as dense. The pressure at the center of Jupiter must be enormous — some 100 million times the earth's atmospheric pressure.

The low mean density can be understood only if the planet is mostly composed of hydrogen. In composition the planet resembles the sun more than it does the earth.

The Pioneer F radiometer experiment will determine how similar in helium content are Jupiter and the sun. The abundance of helium relative to hydrogen will be measured on the infrared and produces a "greenhouse effect" in Jupiter.

Jupiter's solar radiation reaches deep layers of the atmosphere but does not escape rapidly. However, the transmission properties of hydrogen depend on whether it is pure or mixed with helium. The Pioneer F experiment will define the relative amounts of both helium and hydrogen from the measurements of the transparency of the Jovian atmosphere at two different wavelengths of the infrared spectrum.

The radiometer is similar to those used in two Mariner Mars spacecraft. It uses a three-inch telescope, weighs only 4.4 pounds and consumes only 1.3 watts of power. It will provide a thermal map of the disk of Jupiter with a resolution of 1,500 by 435 miles at closest approach.

The lowest temperatures that will be measured are around 300 degrees below zero Fahrenheit.

In addition to Dr. Munch, the experimenters are Dr. Neugebauer, Dr. Trafton, and Stillman C. Chase of the Santa Barbara (California) Research Center.

LATE SCORES

Baseball:

Rio Hondo 7, Caltech 1

Volleyball:

Dubney def. Ricketts
Fleming def. Page Ruddock def. Blacker

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PASADENA
La Canada Office: 1370 E. Colorado, La Canada Office: Foothill and Athens

Citizens Commercial Trust & Savings Bank of Pasadena
Tennis Team Splits Pair Against Conference Foes

The track team came close to winning at Claremont-Mudd-Scripps on Saturday, but finally succumbed to defeat, 74-57. Strong individual performances marked the event, however, with Alan Kleinlasser winning both the mile and 880-yard race.

Kleinlasser's time in the mile — 4:20.8 — is a new school record. He also took the half mile in 1:57.6. The only double winner for the Tech trackmen was Haywood Robinson, who won the 100-yard dash in 10.0 seconds and the 220 in 22.8.

Charley Almighty won the 440-yard intermediate hurdles and placed fifth in the high hurdles. Monte Rudolph won the discus and finished third in the javelin.

Next Saturday's meet is at 1:30 p.m. at Pomona.

III Volleyball

Finkelstein def. Ricketts Page def. Lloyd Reddock def. Dahny

Doubleheader Loss

Putt's Beavers' Record on Downhill Streak

by Fredrick J. Ford III

The baseball team lost both ends of a twinbill to L.I.F.E. last Saturday, 11-3, and 5-4.

In the opener L.I.F.E. jumped out to an early lead against pitcher John Elin, and Tech couldn't catch up in the third inning. Tech scored its first run, on a walk with the bags full. The Beavers took over for two more runs. At this point the visitors seemed on the verge of scoring more, but John Ellis held them to only one more run until the final relay had been swung, however; with a little luck the team might have posted a 5-4 record.

The SCIAC swimming finals will be held tomorrow at 3:00 at the Alumni Pool. Based on the results of today's diving finals at U.C.L.A., the team might have posted a 5-4 record.

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News Briefs

For the Bad News: First, the good news and some bad news. First, the good news:

On Saturday, the wrestling squad finished off a quite successful season with a fifth place in the NAIA District III Championships. Our overall squad finished off a quite successful season with a fifth place. The SCIAC swimming finals will be held tomorrow at 3:00 at the Alumni Pool. Based on the results of today's diving finals at U.C.L.A., the team might have posted a 5-4 record.

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ASCTC Concerts Site Change

Friday noon-to-one ASCSTC concert will be at the Ricketts-Fleming Courtyard. Dining room tables will be moved out so that Techers can eat lunch outside. People of Page, Lloyd, and Reddock might want to eat lunch in south complex on Friday aftreons.
ASCIT Agenda

Continued from Page One

1. Approve minutes. House secretaries are responsible for posting the BOD minutes. Let us know if this is not done and we'll dump on the appropriate people.

2. Morin's Reward and Punishment Ceremony. Delegation of authority is a useful presidential technique if it gets things done. Joe will distribute pats on the back and kicks in the ass to deserving individuals.

3. Report of Directors at Large on Committees and Appointive ASCIT Offices. Simay and Land are to recommend which positions should be scrapped (like House Point Committee) and which jobs need appointments. Nominations officially open at 4 p.m. Thursday.

2 March. To be considered, submit your name to Simay (Ruddock) or Land (Fleming).

4. Bookstore. Based upon the assumption that ASCIT members think that the bookstore is a rip-off, we will discuss possibilities of turning the bookstore into a student cooperative (student jobs, more reasonable hours, lower prices, student controls, etc.). A committee will be established to make this change happen soon, if there appears to be adequate student support.

5. Co-op Housing. The Institute owns a number of houses near the campus which are generally not available for occupation until B&G finishes minor repairs (approximately 5 years waiting period from date of acquisition). A committee will be set up to work with Dave Smith to establish rental of this housing to undergrads and grads and to operate some form of a co-op food plan to buy at wholesale prices.

6. Winnett Student Center. The BOD wants to put Winnett to better use for the benefit of the entire student body. Immediate plans include moving the TV from the lounge to Clubroom 2 so that activities can be held in the lounge without making the good tube watchers POed. Many ideas will be discussed regarding the short and long term plans for Winnett.

7. H.M.S. Pinafere Budget Request. I predict that this item will be tabled for one week until the budget planning meeting. The ASCIT musical group is asking a pledge of $400. They claim that, with luck, ASCIT may have to pay only a small fraction of that $400, if any. The sole purpose of the pledge is to serve as insurance for the musical.

8. Report on Faculty Committee. Recent actions include the recommendation of the Undergraduate Academic Standards and Honors Committee to the Faculty Board that add and drop days be moved to the last day of the term. ASCIT representatives will be present at the Faculty Board meeting to push for this sorely needed reform. Sharon Spivak will report on other plans for academic innovations. Bring your ideas — we'll give you time to tell us about them.

9. Rap with YMCA and GSC Representatives. Assorted grad students and YMCA representatives have been invited to participate in a discussion about ways they can work more closely with ASCIT.

10. Unexpected Business. This category includes presentation of half-baked ideas (by BOD members and other random trolls) which warrant further investigation.

Come to the BOD meeting and see your name in print on the very next edition of the minutes. Y'all come.

Humanities Project Grants

The National Endowment for the Humanities has begun a program of grants for support of humanities projects initiated and conducted by young people. Created in line with a recommendation made last year by the National Council on the Humanities, the new program — called “Youthgrants in the Humanities” — will consider applications from both students and young persons out of school. The program will offer young people an opportunity to translate their educational and ethical concerns into concrete projects and to reflect critically on their own beliefs and values as well as those held by the larger society.

March 17th has been set as the first deadline for “Youthgrants” applications for projects scheduled to begin during the summer of fall of 1972. Proposals will be evaluated comparatively by a panel of young people prior to submission to the National Council on the Humanities, which makes final recommendations on all applications for Endowment grants.

Further information about the program, including eligibility, application procedures, and grant requirements is contained in a brochure available without charge from: Youthgrants in the Humanities, National Endowment for the Humanities, Washington, DC 20506.

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