

Ivory Tower under Siege

Caltech Depression

by Richard Gruner

"The late 1960s and the early 1970s brought along with ferment and controversy—financial stresses that threatened most American universities, including Caltech... We responded to these various financial problems by putting further controls on spending... As a result, Caltech has weathered the financial storms of 1969-1972 better than many other universities..."

Harold Brown
Caltech President
January 1974

"There's no cushion left. We're right at the edge of an economic morass."

Robert Christy
Caltech Provost
April, 1975

During the fifteen months between the statements above, Caltech's finances have been severely battered. Increased operating costs coupled with reduced endowment income and altered giving patterns have greatly weakened the Institute's economic underpinning. As a result, numerous cuts in Caltech support service expenditures were necessary during the past year and when Provost Robert Christy announced early this month that the Institute was delaying new faculty appointments for lack of funds, it was clear that its present economic crisis might seriously jeopardize Caltech's position "at the leading edge" of science.

Caltech's current financial difficulties are closely tied to the general depression in the U.S. economy. Stock market setbacks in particular, have significantly reduced the Institute's income from its endowments. Long noted for their investment skill, Caltech economic planners find

some consolation in the fact that the value of Institute stocks wend down only 22% during a period when the Standard and Poor stock index dropped 50%. There is little doubt, however, that recent losses in the stock market have created significant financial problems for the Institute.

Unrestricted giving is another important source of income which has decreased during the current U.S. depression. Although the total amount of gifts received by the Institute has remained relatively constant (in contrast to significant decreases at many other U.S. universities), more and more donors are earmarking gifts for specific purposes such as endowed chairs. While these restricted gifts sometimes subsidize activities which previously required general funds, overall they have a much less important effect upon general fund revenues than do their unrestricted counterparts. Thus the newly altered giving patterns of Institute donors have greatly aggravated Caltech's general fund woes.

Utilities Increase

Caltech's income crisis has come at a time when many costs are on the rise. One of the largest (and least anticipated) areas of increase was utilities expenditures. Between 1971 and 1976 utilities added \$0.8 million dollars to the Institute budget. In other areas cost increases have been less spectacular, but the total increase in the Institute's financial burden has been substantial during recent years. This increased burden coupled with decreased general fund income has forced the administration to conclude that "in order to live in Fiscal 1977 as we have in the past, we need one million dollars added to our

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The Caltech Y Presents the Richmond Shepard Mime Theatre



What more can we say?



RECESSION AT CALTECH. Provost Christy predicts financial hardships for Caltech in the years ahead.

IHC Decides

Gag Rule Retained

After much discussion concerning next year's Freshman rotation, the Interhouse committee voted (5-2-0) to retain the so-called "gag rule" for one more year. Because this action was deemed to be contrary to the wishes of some of those who will be involved, we feel that an explanation of our decision should be made at this time.

The primary reason for prohibiting anyone from characterizing any house other than his own is that no house should be given a stereotype that it does not wish to have. Ideally, each house should have the opportunity to present whatever image it chooses to the incoming freshmen and no freshman should go into any house with any preconceived notions about that house. With an effective gag rule, the only way a freshman can hear about a house that he has not visited is through other freshmen, and we believe that information obtained in this manner will carry far less weight than information spread by upperclassmen. Thus a freshman's evaluation of a house will be influenced more by his

personal judgement than by the opinions and prejudices of upperclassmen.

Furthermore, we believe that the generally derogatory nature of the information spread by upperclassmen is contrary to the spirit of rotation. In the past, houses have been hurt by malicious rumors as well as by sincere, well-intentioned advice which nonetheless created an undeserved negative impression. This is not right. *A house should be able to present a positive image of itself instead of being forced to dispel a negative one.*

Admittedly, the gag rule is an inconvenience to everyone. It eliminates a large topic of conversation for upperclassmen and it prevents the freshmen from having upperclassmen compare the houses for them. However, this rule has succeeded in putting all the houses on an equal footing, and on that basis we decided that its advantages far outweigh its drawbacks. We hope you will agree and give this rule your wholehearted support. Thank you.

—Your friendly
neighborhood IHC

News Briefs

Speaking Chorus

Tim Erickson of Caltech will be directing a chorus as part of the Altadena Speaking Chorus at the 15th annual Sequoyah School fair Saturday (April 26) at 5 p.m. Bill Wood and Lee Hood, biology professors at Caltech, will also be performing on recorder and guitar during the dinner hour. The fair is located at 535 S. Pasadena Ave., and will run Saturday & Sunday.

Danforth Fellowships

Each year the Danforth Foundations grants Fellowships for young persons attempting to earn a PhD in a teaching and/or college administrative field. The award is for one year, and can be as high as \$2275 (single) and \$2450 (married). Graduate Record Examination Aptitude Tests in Verbal and Quantitative abilities are required. Each college nominates two to four candidates. Nominations close November 19th. For more information, contact J. J. Morgan, Dean of Students, 210 Dabney Hall.

Snyder Wins

by D. Sivertsen

The election results are in! Unfortunately, they make very little sense. Last Friday, the BOD decided to hold a runoff between Jones and Snyder, then changed their decision after discussion to having a rerun with Angulo, Bacon, Jones and Snyder. In any event, the results of the election are as follows:

For Director of Social Activities: Tom Snyder, 145 (47%); Morris Jones, 101 (32%); No, 40 (13%); Satan 12; Evensizer 5; Miscellaneous 22.

Jill Evensizer, Election Chairman, gave awards to Fleming for most unified vote; Ricketts for most imaginative voting and most cooperative; most popular candidate to T. Estes; and also congratulations to "Kike" in Ricketts who won a strangely scored hearts game. Satan's 12 votes, and one vote for God, did not count, as they have not paid their ASCIT dues.

Options Declared

by Al Drehman

The nth Annual Frosh Pigeonholing Tournament ended this year with a surprise jump in Engineering and Applied Science. This year, almost half of the Frosh elected either Physics or Engineering. Of the Big Five (Engineering, Physics, Math, Biology and Chemistry), only Physics and Engineering showed an increase, while the other three showed a moderate loss. Other interesting developments include a tremendous decline in Astronomy, while Geology and Chemical Engineering showed a large increase; both up over 100% above last year.

According to the Registrar, there are 196 freshmen currently enrolled out of 208 who

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Artists Awaken

Anya Fischer, noted local artist and teacher, is conducting art classes for undergraduate and graduate students. Classes meet Saturdays from 1 - 4 p.m. in Dabney basement and include instruction in all media (oils, ink, charcoal, pastel, crayon, conté crayon, etc.). This year models are available for figure drawing. Cost is \$5 per term, materials not included. Come find out how the other half can live. If you have any question, contact Barbara Stitt, graduate student in biology.

Master Money

Each year the Master of Students Houses grants to a few undergraduates a cash prize from \$50 to \$200 from the Don Shepard Award Fund. Recipients of the award must be residents of the undergraduate student houses and applications must be received before May 15, 1975.

The Award was established by Mr. & Mrs. L. E. Shepard in memory of their son, a former Caltech student. The purpose of the Award is to allow some students, who have little or no funds left after meeting the expenses of tuition and subsistence, to lead fuller lives through the enjoyment of good theatre, good music, good books, etc.

Applications should be addressed to the Master of Student Houses in the form of an essay explaining why the applicant feels he should receive the award and how he would utilize it. Recipients will be notified in early June and funds will be presented in October.

Engineering Convention

The 51st Convention of the Audio Engineering Society is taking place Tuesday through Friday, May 13-16, at the Los Angeles Hilton. Technical Sessions will be held in Sound Recording, Broadcasting, Reinforcement, Electronic Music, Special Applications, Hearing and the Environment, Physics of Sound and Music and Human Perception, Architectural Acoustics, and Audio Measurements and Standards. A great many companies will also be exhibiting their latest products, and there will be a jazz/rock synthesizer concert Friday night. One may attend any or all of the sessions. If you wish to register (\$2.50 for students) or get more information, please see Dave Dewey, 26 Dabney, (449-9617).

Coop Scoop

The ASCIT Coop housing group is looking for new members for next fall, and temporary members for the summer. All of our houses are a short walk from campus, and offer an alternative life style to both dormitory

Pierce Awarded Medal

The Medal of Honor, the highest award presented by the Institute of Electrical and Electronics Engineers (IEEE), has been awarded to Dr. John R. Pierce. The Award, consisting of a Gold Medal, a certificate, and \$5,000, was presented at the Institute's annual banquet during IEEE INTERCON in New York City, April 8.

Dr. Pierce was honored "For his pioneering proposals and the leadership of communication satellite experiments, and for contributions in theory and design of electron beam devices essential to their success." The Medal of Honor, established in 1917, is presented to honor a particular contribution which forms a clearly exceptional addition to the science and technology of concern to the Institute.

Dr. Pierce is currently Professor Electrical Engineering here, and is a graduate of the class of '33. A Fellow of IEEE, the Acoustical Society of America, and the American Physical So-

ciety, Dr. Pierce is also a member of the National Academy of Engineering, the American Academy of Arts and Sciences, and the American Philosophical Society.

While he currently is teaching, Dr. Pierce spent 35 years with Bell Laboratories. Starting as a member of the technical staff, he rose to the position of Executive Director, Research, Communications Sciences Division. Retiring in 1971, it was at Bell Laboratories that Dr. Pierce made the contributions for which he was honored.

Dr. Pierce, at Bell Laboratories, was in charge of work on mathematics and statistics, speech and hearing, behavioral science, electronics, radio and guided waves. His chief work was in electron devices, especially traveling-wave tubes, microwaves and various aspects of communications. Telstar resulted from satellite work he had initiated and the Echo I satellite embodied his ideas.

living and an apartment. Full kitchen facilities are available, and each house has an active cooking group (membership is optional, though). Members are asked to commit about two to three hours a week to housework. The average rent is \$42 per month, plus around \$15 per month utilities. If you are interested in moving in, feel free to come visit at any (reasonable) time. For further information, get in touch with Klaus Engelhardt, at 290 S. Holliston (796-6881 or x2792), Vince Fratello, at 306 S. Catalina (792-6638), Jim Ogg, at 297 S. Holliston (796-2183), Cyndi Jung, at 317 S. Holliston (792-2952).

Cycle Champs

The University of California, San Diego, in cooperation with the Southern California Cycling Association and the Amateur Bicycle League of America, will be hosting the Southern California Intercollegiate Cycling Championships on Saturday, May 3, 1975. The races will be 15 laps (20 miles) for women, and 25 laps (33 miles) for men.

Following the races will be an awards presentation, including a minimum of \$200 in merchandise prizes, plus trophies. There shall also be a special trophy and prize awarded to the best team overall. Entry is open to all undergraduate and graduate students, and riders need not be licensed by the Amateur Bicycle League of America. For more information, contact Mr. Emery in the Athletic Office.

French Comedy

"The Game of Love and Chance," Marivaux's best known comedy will open in Ramo Auditorium on April 25. This Spectrum Production 8 will receive its first known professional debut in either the U.S. or Britain. "The Game of Love and Chance" will run for five performances: April 25, 26, May 1, 2 and 3, at 8:00 p.m. in Ramo. Tickets are now on sale at the Ticket Office. For more information call 793-7043.

CALTECH FORUM

Honor System Breakdown?

Dear Sirs,

Millikan Library has long been considered one of the most prominent examples of how well the Honor System works. Page eight of the Honor System booklet states "the operation of all Institute libraries is governed by the Honor System. At Caltech, students are never subjected to the humiliation of having all their books and briefcases checked before leaving the library." Consequently, the booklet further states that "It is a violation of the Honor System to break library rules and misuse the facilities." The library has now changed its attitude toward the students and the Honor System. The BOC, arbitrators of the Honor System, has not indicated how students are to react to this change in library attitudes. In light of this information vacuum I have my own proposal.

I feel that students should no longer be subject to prosecution by the BOC for violating library rules regarding the checking out of library materials. This change in student policy is easily justified using the principles espoused in the Honor System booklet. One of the faults of the Honor System in the eyes of many new students (and many

old ones) is that while undergraduates are committed to being honest and fair to the rest of the community, the reverse doesn't seem to be true, much less enforceable.

One of the major reasons for following the Honor System is that honesty is a two-way street at Caltech. The Honor System was not meant to be a "Martyr" system. To convict a student of taking unfair advantage of another member of the community when the victim is not similarly restricted by the Honor System is outright persecution of students. Thus the principle of the "outside company rule," no proctoring of in-class exams and until recently the functioning of the library. I am not, presently, encouraging students to violate library rules or violate the Honor System. But neither should I be the lamb going to the slaughter.

Student treatment of the community should match community treatment of the students. The BOC should not be reduced to being a police force for enforcing the administration side of unbalanced situations, i.e. the library. The students should not now, or ever, be penalized for being less than honest when the same honesty is not expected or required of the other side. If the library is not going to trust the students then it should not enjoy the protection of the Honor System.

-Alan Shusterman

Subscription Rip-offs

This week, the plastic magazine covers for Time, Newsweek, and Consumer Reports disappeared from Winnett Student Lounge. The covers have already been replaced once this year at a cost of \$5 apiece. If this keeps up, I will be forced to cancel the magazine subscriptions.

-Flora

FRANKLY SPEAKING by Phil Frank



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Editors-in-Chief . James Llewellyn
..... Dave Sivertsen
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Photographers Greg Bone, Bobby Bus, Ray Feeney, Rich Feldman, Gerald Laib, C. N. Pow, Chris Wheeler.

Business Manager Becky Winter
Associate Gavin Claypool
Circulation Wayne Dickenson
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THE ASCIT FRIDAY NIGHT MOVIE

Bedazzled

7:30 p.m. & 9:30 p.m.
in Baxter Lecture Hall

Admission: 50¢—ASCIT members and their guests; \$1.00—anyone else

NEXT WEEK,

Sleeper



The Tech About Town

My apologies to those of you who expected to see this column last week. If you didn't expect to see this column last week, you might as well go back to your copy of *Where Is the Lady*. I thought I had a substitute, but he apparently didn't. So my leave of absence is truncated, just as is this weeks column.

Tonight, the Spectrum production of Marivaux's *Game of Love and Chance* will open at 8:00 p.m. in Ramo. It will continue tomorrow and then play next Thursday through Saturday. Also tomorrow in Beckman we will be privileged to hear Mary Costa, one of the great sopranos now singing. Both of these events are available to Techers for only one dollar. You can't ask more — there isn't any to give.

Options

Continued from Page One

registered for first term. Four of the present Frosh do not plan to return next year, thus there are supposedly 192 Frosh who should have decided on their options. The registrar has accounted for 193 as of last Friday, which only goes to prove that the Law of Conservation of Frosh does not apply to Tech.

Option No.

E/AS	56	29%
Ph	36	19%
Ma	22	12%
Bi	19	10%
Ch	17	9%
ChE	12	6%
Ge	11	6%
APh	10	5%
Ay	5	3%
AMa	3	2%
??	2	1%

The question mark is for those who still have not sur-

Some will, perhaps, remember the Players U. S. A. at the Broadway Playhouse in San Gabriel. Well, they're currently running a production of the musical version of the *Wizard of Oz* which plays Saturdays and Sundays at 2:00 p.m. through May 18. Speaking of May, the Renaissance Pleasure Faire is once again with us, and is also well worth a visit. A costume will increase your enjoyment immensely, — which I cannot say will necessarily be the case if you go with no costume at all.

I'd like to say just a few words about next season's New York City Opera season. The discussion is more than academic as mail orders for series are being accepted now. Prices range from \$62.50 to \$25 — for 5 operas. I'm really very excited this year

rendered to the Registrar and confessed their options. Surrender! No one yet has been able to survive against a determined registrar.

Ten Frosh also indicated a second option: four in Ch, two in Bi, two in E/A Sci, one in Ph, and last but not least, one person picked English as their second major.

After careful analysis of the number of Frosh picking each option each year, over the last nine years, the following trends seem to have emerged:

- 1) Ma is following a sine wave of increasing frequency;
- 2) Ph has been making random quantum jumps, but overall has headed downward in order to increase entropy;
- 3) After maintaining a steady-state, Ay seems to have started the great collapse. If it loses four more next year, it will become a singularity;

because we've railed at the NYCO for years over their over-representation of Puccini to no effect — until this year. This year, out of 13 operas, only one (*La Boheme*) is by Puccini. The others? It's like a candy store. Wagner's *Die Meistersingers* (but in English — I wonder if we'll get our cake to eat, as well), R. Strauss' *Salome*, J. Strauss' *Die Fledermaus*, B. Britten's *The Turn of the Screw*, Mozart's *The Marriage of Figaro* (yes indeed — translated title means translated libretto), two works by Donizetti *Lucrezia Borgia* and *The Daughter of the Regiment*, Verdi's *La Traviata*, Menotti's *The Consul*, Korngold's *Die Tote Stadt*, and yes, even the return of *HMS Pinafore*.

Of course, if you can't wait that long for some G & S, Oxy's Home Concert on May 9 will feature *Trial by Jury*.

A last word, for those of you who have expressed interest in bringing a rock concert to Beckman, I am working on this. The specific group I am aiming at is Kingfish. However, to bring any group, I need the financial support of ASCIT and/or GSC. If you would like a rock concert in Beckman, please tell me or ASCIT or the GSC, but TALK IT UP.

4) After hitting rock-bottom, Ge has started a shaky uphill climb;

5) Biologists multiplied until 1972, when a definite degeneration (in number) began;

6) E/A Sci seems to look like the stock market, except that it has been increasing for the last few years;

7) Chemists seem to be keeping their same equilibrium constant;

8) After nine years, ChE is back where it started, after having a slump in between. Sounds typical of ChemEs;

9) AMa, a new department, has maintained its reputation as being the least popular;

10) APh has followed the opposite trends in Ph, typical of an applied physicist;

Two options are a little misleading. E/A Sci includes many

Continued on Page Eight

Future Plots from B & G

by Alan Silverstein

It won't be long now before the Throop Site is finally finished being converted into a verdant paradise. (Hopefully no one remembers the Ides of March estimated date of completion which we published back in February....) At this point, nothing remains to be done but landscaping and pump/filter installation.

With the completion of the heavy work on the central campus ends also several years of major Tech construction and renovation. Throop was hit by the headache ball in '72, then San Pasqual got closed, Beckman II got finished, and six months ago South Mudd got dedicated. Throop Site will be the last time we'll see bulldozers on campus for quite a while. Officially, at least, the Institute currently has no definite plans for any large-scale future construction or groundwork, although there are, as always, some ideas floating around.

This does not mean that Physical Plant and the Architect's Office aren't thinking ahead. On the contrary, Ken Schmitz, of the Grounds Department, is in the process of compiling a series of precise outlines for long-run minor landscaping and refurbishing all over campus. This is not a program in any sense, but rather a collection of well thought out guidelines for the Institute which will be useful for as long as they are individually relevant. Mr. Schmitz has about 20 areas in mind for

improvement, after assistance from an outside consulting firm, but stressed that his work is only in the estimate stages. No priorities have been established, and not even tentative dates or schedules will be attached to any project until and unless they are approved and funding is available.

A New Face

Aside from standard maintenance work, which continues daily, Mr. Schmitz described what may be done, over many years, as a "general facelift of the campus". Some of the areas under consideration include the Alles Patio, the Business Services lawns on California, parts of the athletic fields, various planters, the lawn between Ruddock and the tennis courts, the walk between Fleming and Firestone, the student house courtyards, and the entire Olive Walk region. The last two items are of special importance to undergraduate students, so Mr. Schmitz has met with the IHC recently to discuss possibilities with them. Courtyard work would mainly involve simply replanting some areas. Fixing up the Olive Walk, however, will be a major undertaking. For safety reasons, the bricks of the Walk need to either be ground down to equal height or replaced. Then, for aesthetic purposes, all of the areas now covered with mud or dirt may be stabilized with soil cement, or replanted with grass if feasible. In addition, planters may be rebuilt around some of the olive trees.

Crazies

In honor of third term, we bring you an editorial from the pages of the Johns Hopkins Newsletter.

To the Editor:

For a long time, we have been sitting on our proverbial posteriors while the world has been passing us by. Now, however, our time has come to act against repression, suppression, depression and sloth. A devious, underhanded, fascist conspiracy has been brought to light. It is a plot orchestrated by our government and the powers that be, and by our silence we condone it. Our youth is being robbed from us by sinister forces that we must rise up against and crush.

Our minds are tender instruments that can be easily ruined or rendered useless to us. They can, by various means of control, be twisted, mishandled, and brought into line with what they want us to be. I refer to the massive attempt to keep Peter

Pan away from youth, you and me, and all the children of today. Every year, someone sneaks and crawls into our homes over the air waves proclaiming, "There's no place like home." But what ever happened to the beautiful sound of "I won't grow up, no I'll never go to school...?" Somewhere locked in the cellars of this 1984 kingdom is the key to staying young and free. But they won't let us. We must grow up as cogs in their production machine and sit in our own little houses going, "there's no place like home." Well, I would rather go to Never-Never Land and eat some cake. And I love Tiger Lilly.

But their little game does not stop here. The mind-boggling effects of television work by commission as well as omission. By virtue of constant reruns, the industry (of military-industrial complex fame) is trying to turn us into Eddie Haskells. As we all know, everyone's world requires

ONLY WEST COAST RECITAL MARY COSTA

soprano

Saturday, April 26, 1975 at 8:00 p.m.

\$7.50 - 6.50 - 5.50 (student section: \$4.50)

STUDENT RUSH TICKETS NOW

ONLY \$1



BECKMAN AUDITORIUM



DON'T FORGET!!

SPECTRUM PRODUCTION 8

The Game of
Love and Chance

RAMO AUDITORIUM

APRIL 25, 26 8 P.M. MAY 1, 2, 3
Caltech students: \$1.00 Caltech/JPL staff: \$3.60

The CALTECH Coming Events

To get your mind off mid-terms (pardon my French) we have three major evening events on three successive days upcoming. First, Tuesday we present jazz by the best: **Mr. Warne Marsh**, acclaimed by *Downbeat Magazine* to be "the most brilliant improviser in jazz today", and his quartet, will play two sets in Winnett Lounge, beginning at 7:30 p.m. In addition, during a break, the rare film *Jammin' the Blues* featuring the late Lester Young will be shown. If you like jazz, don't miss this happening.

The next evening, Wednesday, author **Joseph Wambaugh** and Tech chemistry **Professor Harry Gray** will participate in a dialogue and lead an open discussion with the students and faculty at 8:00 p.m. Mr. Wambaugh is a talented novelist whose works include *The New Centurions*; *The Blue Knight*; and *The Onion Field*. Having spent 14 years with the LAPD before resigning as a detective sergeant, Hollenbeck Division, he is very qualified to write about and speak on the topic of crime and law enforcement. This event will take place in the main dining room of the Atheneum—but don't let that turn you away. Dress is casual (so don't be intimidated), admission is free, and you're invited to come.

Finally, Thursday night we

Mary Costa Arias Here; Go Diva

Mary Costa, as beautiful as she is talented a singer, began her career selling Chryslers on television and went on to sing some of the great operatic roles at the Metropolitan, San Francisco, Covent Garden and Bolshoi opera houses. She will give a recital in Caltech's Beckman Auditorium on Saturday, April 26, at 8:00 p.m.

The multi-talented singer-actress has won a formidable reputation in light opera, and a busy schedule also includes concerts and opera tours.

Her program at Caltech will be taken from a repertoire which includes Vivaldi Motets, songs by Richard Strauss, Fernando Obradors, Joaquin Rodrigo, Joaquin Nin, Aaron Copland, Anton Dvorak, as well as opera arias by Verdi and others. The recital will be followed by a champagne reception for Patron Circle ticket holders and Friends of Beckman Auditorium honoring the artist.

For ticket information, call ext. 1652. Student rush tickets are \$1.00.

start a new series of informal discussions, whose topic should be especially relevant to the students of Caltech. It's titled *Conversations with a Scientist: Science, Values and Beliefs*, and it means an opportunity to hold an intimate talk with an eminent scientist from Caltech or elsewhere. Next week, on the first of May, Nobel laureate and Tech biologist **Dr. Max Delbrück** will be in the Y lounge at 8 p.m. to share his beliefs with a small group of interested students. As always, admission is free, but will be limited to the first 20. You are invited.

Looking far in advance, there will be an Arts and Crafts Fair on the Olive Walk all day Saturday, May 17. I mention this now because you can be a seller as well as a buyer. If you have an artistic talent and want to make some money, you need to start creating now, and register with the Y office before May 9.

Take it easy—don't let mid-terms get you down.

—Alan Silverstein



The Muledeer & Moondogg Medicine Show are the headliners at the Ice House again this week, after a very brief absence. They are a very good act, doing lots of media comedy, ranging from a full staging of an old song, complete with costumes, to all sorts of other stuff. They are extremely good, but there is a 'however' about their act. It is: the act changes very slowly with time, so that it is substantially the same as it was a couple of weeks ago. Therefore, if you stayed for two sets then, you have seen most of the stuff they do this week. If you haven't seen them, by all means go ahead. They are very funny. In any case, the other two acts are also

worth the price of admission.

Peter Alsop opened the show, since for some reason Harold Oblong had to cancel out his appearance this week. For those of you who are interested, if it is still no later than lunchtime on Friday when you read this, you can listen to a sample of Peter Alsop's music and general insanity at the lunchtime concert near Winnett today. If you are reading this later, tough luck. Peter Alsop is rather talented and extremely funny. His "Barnyard Suites" are great, and his individual songs, whether serious or humorous, are very entertaining. I would recommend going to see him, one way or another.

The third act at the Ice House

this week is a guitarist names Toulouse (not Lautrec, I hope) who plays all sorts of fine music on 6-string, 12-string and electric guitars. His music is totally instrumental, although he often explains the rather odd titles with all sorts of raps, like when explaining "Sailcat's Lament" and talking about a redneck telling him how to flatten out a dead cat after it has been run over by a truck, and make it into a frisbee, i.e. a 'sailcat'. Most of his other raps were at least as interesting, if a little less gory. Most of his song titles were based on bizarre incidents he has witnessed, apparently, including "Pressed Hams" (I'll let him tell you what that one is about. You wouldn't believe me if I came up with something that weird.). Toulouse does some really fine guitar work, especially on one 12-string number entitled "Fire in O'Doodley's Popcorn Factory" (A Tone Poem). All you guitar freaks out there should get over and see this guy. He looks

Continued on Page Seven

Can't you spare a bite to save a life?

THE THREAT OF SEVERE MALNUTRITION OR EVEN STARVATION FACES 400 TO 500 MILLION CHILDREN LIVING IN 60 OF THE POOREST COUNTRIES OF THE WORLD.

The situation is so grave that the United Nations Children's Fund, UNICEF, has declared a state of emergency for these children.

Malnutrition is the biggest single contributor to infant and young child mortality in developing countries, where 25 to 30 percent die before the age of 4.

In many parts of Africa almost every child under five suffers from some protein malnutrition. In Latin America and Asia more than half of all childhood deaths are related to malnutrition.

AMERICANS HAVE BEEN LUCKY. FAMINE HAS USUALLY BEEN FAR, FAR AWAY FROM US.

We are one of a small number of nations—favored with an advanced technology—whose children are the world's most fortunate. They will have longer and healthier lives than people in developing countries.

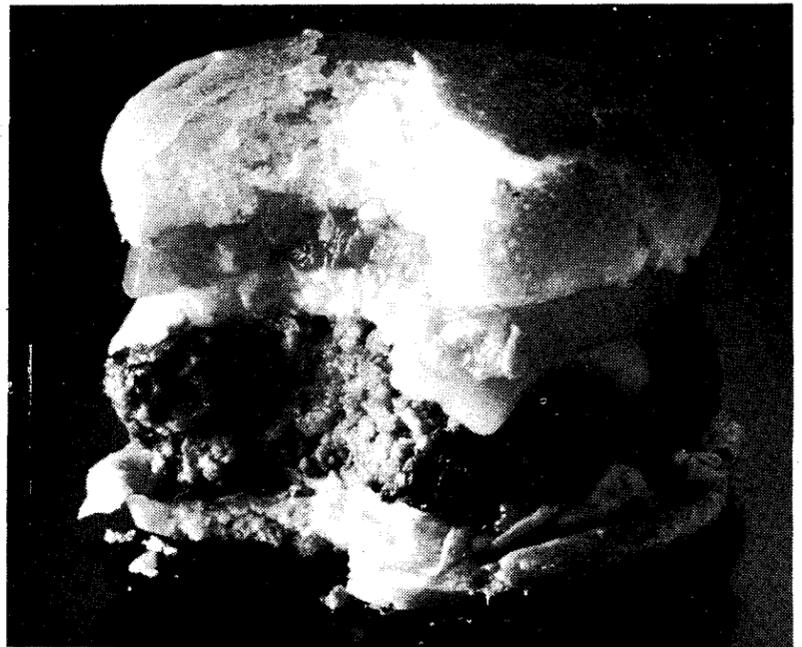
Harvard nutritionist, Dr. Jean Mayer, says, "We are among the world's one billion richer people who use almost as much cereal to fatten the livestock they eat as the two billion people in the poor countries eat directly as food. Twenty years ago the average American ate 50 pounds of beef annually; this year he will eat 120 pounds. There's every good reason from the point of view of health why we should cut down on consumption of animal products. And we would at the same time free enormous amounts of grain for famine relief elsewhere."

TO HELP MEET THE SPECIAL EMERGENCY NEEDS, UNICEF MUST FIND AN ADDITIONAL \$80 MILLION IN THE NEXT 12 TO 15 MONTHS.

UNICEF, with long experience in helping children in emergencies, is taking immediate action, alerting governments and agencies worldwide about the critical need for action. However, no government or government-agency can act as swiftly as an individual can act. Individual contributions, no matter how small, are the children's main hope for survival at this moment in time.

A contribution of even \$1.00, the average cost of a hamburger, french fries and a soda, can buy a year's supply of multi-vitamins for a child in a crisis country. \$15 can bring supplementary food and health services to 5 malnourished children for a month in some developing countries. And \$66 can buy a deep well hand-pump to provide water for drinking and irrigation in drought-stricken areas.

Can't you spare a bite... to save a life? Please take time to send your contribution today.



UNICEF 

WORLD CHILD EMERGENCY, 331 E. 38th Street, New York, N.Y. 10016



Those of you who read science fiction probably know others that enjoy it too. You may not be aware, however, that a virtual subculture known as fandom exists, and has for many years.

Fandom has no centralized headquarters; it is mostly autonomous, tending toward the anarchic. It appears in many forms: in clubs (the Los Angeles Science Fantasy Society—LASFS—is one of the most active; it meets every Thursday night at 8 o'clock in their own building at 11360 Ventura Blvd, Studio City, and visitors are always welcome), amateur magazines, or "fanzines"

(Locus, one of the most widely distributed, is described later), writing letters to the magazines (Analog, etc.), and even in its language (all of the above are fanacs, from fan activities, part of a lingo appropriately called Fannish). When two or more fen get together, it's fandom in action.

Harry Warner, Jr., has written a book (All Our Yesterdays¹) on fandom in the 40's, and is currently working on a memoir of the 50's. In the mid-60's, Lin

1. Macbeth, V.v.22. It's amazing how many science fiction titles Shakespeare wrote.

Carter wrote a series of articles on fandom for the late, lamented *Worlds of If*. While highly enlightening and entertaining, this method of discovering fandom is similar to experiencing a street riot by reading the newspaper. The easiest (and, I suspect, most common) way is through attending a convention.

It might be worth pointing out that SF conventions did *not* start because of the success of the *Star Trek* cons. Readers of *The Hugo Winners* are well aware of this. Conventions on a major scale were around as far back as 1939. The *Star Trek* cons and general SF cons have overlapped to some extent during their years of co-existence, with various consequences; more on that later.

The Basic Con

There are two basic kinds of conventions: the regular SF and fantasy variety, and those geared to special interests, such as *Star Trek*. Generally they take place over a holiday weekend, in a hotel or similar environment, and are put on by fans willing to

exert the incredible effort to do so.

The programming of a convention almost always contains panel discussions featuring professional writers, editors, and/or fans, a film program, a masquerade or costume ball, an art show buying and selling, and parties (lots of parties, usually on an informal basis). Groups like the Society for Creative Anachronisms often schedule open events at conventions, their membership having a reasonable interaction with fandom. Most conventions have a Guest of Honor (or two), and a banquet to present awards and/or speeches.

The convention, of course, is the World Science Fiction Convention, or Worldcon. This is the biggie, the one where they hand out the Hugos. Held on Labor Day weekend, its location rotates through three divisions of North America (west, central and east), and occasionally goes extra-continental. Each con is referred to by a given name, usually site-oriented; last year's was held

in Washington, D.C. and called Discon II (being the second ever held there).

And In Between . . .

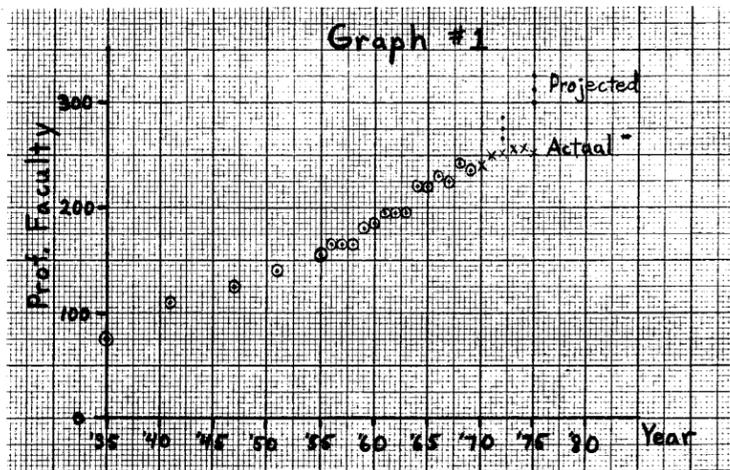
There are several regional conventions held each year, at different times. The New England Science Fiction Association (NESFA) puts on "Boskone" in Boston around early March. Westercon—the West Coast Science Fiction and Fantasy Convention—is held close to the Fourth of July, somewhere in the West (alternating between L.A. and the Bay Area in recent years). Vancouver has VCON in late February; Balticon is held in late March; Minicon (Minneapolis) and Lunacon (New York City) in mid-April; Disclave (D.C.) on Memorial Day Weekend; Pghlange (Pittsburgh) in late September. This past year has seen conventions in Ann Arbor, Atlanta, Cincinnati, Columbus (Ohio), Denver, Nashville, and Phoenix.

Star Trek conventions, built around a series whose last

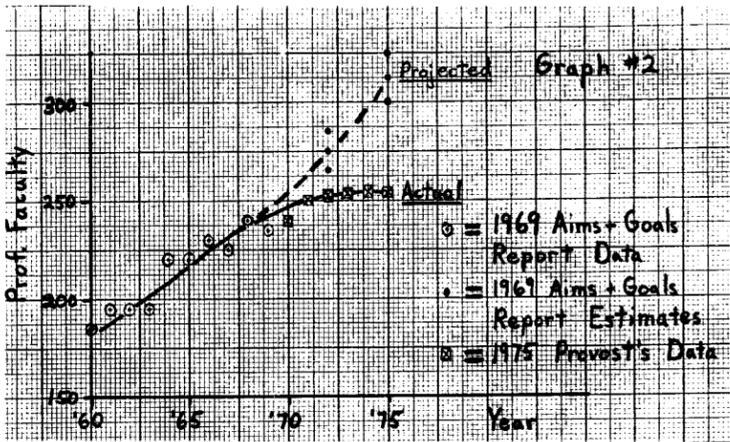
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SALES AND SERVICE DIRECTORY

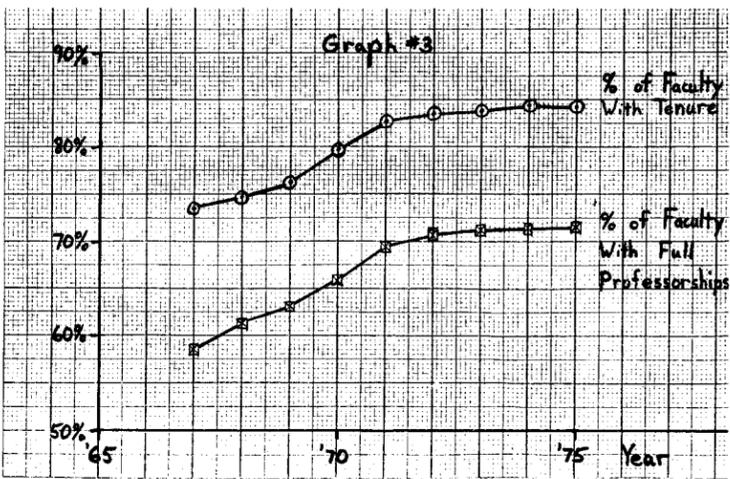
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GRAPH ONE: Professional Faculty versus Year (Actual).



GRAPH TWO: Professional Faculty versus Year (projected and actual).



GRAPH THREE: Percent of Faculty with Tenure (and with Full Professorships) versus Year.

Caltech Chess Classic Closes

by J. Random Darb

The grand and glorious Caltech Chess Classic has finally ended, thanks in part to three timely forfeits. The masterful (for a B player) Sanford Long has won the present championship of Caltech over spirited opposition (and before any of you grandmasters complain, where were you when we ran this turkey?). For his magnificent performance (8-1) Sandy received \$22.50 (what can you expect for a \$5 entry fee?). Puttering into second place was Derek Price, (6½-2½), the highest rated player in the tournament. Despite his loss to Sandy, Derek did have a chance for first until his unfortunate tie with the immortal Douglas Dekker. Third place fell to the dazzling play of Robert Chess (5½-3½, and the first person to say it dies!), who, with callous disregard for his fellow man, insisted upon winning his last game, thus narrowly edging out the fourth place tie of Lee Aydelotte and Doug Dekker

(5-4). Following in sixth place were Eduardo Espiritu and Wolfram Blume (4½-4½), followed by Robert Howard (4-5), Matthew Stillerman (1-8) and N. Mahale (1-8).

In case you hadn't noticed, and not many people did, this tournament was 80% Darbs. Surely there are some intelligent people in the other houses. If so, and there are some people interested in the finer things in life (chess?) around this campus, contact Lee Aydelotte, 32 Dabney House. There may be another tournament, possibly a weekend Swiss, if the interest exists.

Continued from Page One
general funds budget" according to Provost Robert Christy.

Significantly, Caltech administrators expect academic operations to absorb a large share of the expenditure cuts necessary to erase the Institute's projected one million dollar deficit. Over the past five years, general budget increases of 4.1% per year have resulted from academic operations increases of 5.8% and supporting services increases of 2.9%. The low supporting services growth rate has been achieved through numerous expenditure reductions and has left supporting services able to absorb few further cuts. Thus, during Caltech's present financial difficulties the Institute administration has turned to academic operations with an eye towards cutbacks.

In all, according to Dr. Christy, academic operations are expected to absorb a 0.3 million dollar drop from last year's level of Institute support. Of this amount, it is anticipated that over half will be replaced by new external research support. The rest, about 0.1 million, will be saved through delaying new faculty appointments.

Faculty Promotions

The present make-up of Caltech's faculty indicates one reason why such an action is significant. As can be seen from graphs (1) and (2), 1969 marked the end of the steady rate of faculty growth which Caltech had enjoyed since the thirties. As graph (3) shows, although the overall size of the faculty began stabilizing in 1969, faculty advancements and grants of tenure continued at high rates until 1971. According to Dr. Christy, this may have occurred because of his unfamiliarity with the job of Provost (he was appointed in 1970) since "it takes an experienced Provost to stand in the way of Faculty promotions." Whatever the cause, the period 1969 to 1971 left the Institute extremely "top heavy" with 83% of the faculty tenured and 70% holding full professorships.

These high percentages are disadvantageous for two reasons. First, the large financial commitment necessary to support a faculty so highly tenured and consisting of almost 3/4 full professors played a significant role in creating Caltech's present financial dilemma. Second, if the recent policy of delaying new appointments continues over a long period of time, the highly tenured faculty will remain largely unchanged for a considerable length of time. At Caltech, where ideas are of paramount importance and fresh minds are often the most creative, a stagnation of academic

personnel could be disastrous.

Deficit Spending

If delaying appointments is undesirable, what then, are the alternatives? One course proposed by economics professor Roger Noll is that the Institute should be more optimistic about future financial developments and adopt a temporary deficit spending policy. According to Noll, Caltech's use of three-year averages of past economic conditions to predict future income levels has given too much weight to downward trends last year. Consequently, Noll recommends that the Institute make an increased draw upon its endowment with confidence that recent financial losses merely represent the bottom of a cyclical variation.

Although he agrees that a deficit spending approach may seem helpful in the short run, Caltech Vice President for Financial Services and Treasurer David Morrisroe feels that additional draw upon the Caltech endowment would lead the Institute into a financial trap of rapidly increasing endowment encroachments. According to Morrisroe, this has been the experience of other major private institutions such as Harvard, Stanford and the University of Chicago.

Salary Freeze

Another possible alternative to delaying new faculty appointments would be a postponement of faculty salary increases. This possibility was seriously suggested at a recent faculty board meeting and Provost Christy feels that a faculty referendum upon this question might approve delayed salary hikes. Despite this, Christy asserts that Caltech as a whole might suffer by this course of action if it resulted in certain leading professors being "bought away" from the Institute by other schools.

Assessing the disadvantages of each of these alternatives, the administration has found delaying new appointments the least distasteful. Conservative in its approach towards the Institute's endowment and future salary commitments associated with a highly tenured faculty and wishing to avoid the sensitive question of faculty pay cuts, administration leaders have set upon a course which may affect the makeup of Caltech's faculty for years. For although delays in the granting of tenure and promotions are not being made at this time, such actions may be necessary should U.S. economic conditions continue to

worsen or should sought after additions to the Institute's external research support are not found. If these further drastic steps are implemented, Caltech's faculty may become fully stagnated.

Caltech's recent reductions in employment opportunities are particularly distressing to current students who expect to be searching for academic positions in the next few years. The knowledge that national economic adversity has hobbled even the country's leading scientific institution is sobering to potential pure scientists who see their futures increasingly in doubt. It is also a harsh reminder to the apathetic that even an ivory tower institution such as Caltech is not totally isolated and may topple amidst surrounding catastrophes.

News Briefs

Buggers Unite!

As part of the Altadena Old Fashioned Days celebration (something to see in itself), there will be a VW decorating contest on Friday, May 2, from 5:30 to 6:30 at the corner of Lake and Calaveras. Trophies will be awarded, so all of you bug owners go to it. Decorate a friend's, or a total stranger's VW and see what they say! More information can be obtained at Republic Federal Savings and Loan Association (in front of which the contest is held), or the Altadena Chamber of Commerce, 2526 N. El Molino.

Antique Ping Pong

If any undergrad or grad house is interested in obtaining an old ping pong table, please see Flora in Winnett.

Tanketta Tank Tank

This Saturday, at 7:30 p.m. in Dabney Hall Lounge, we will be having either a simulation of a single-tank shootout between Patton and Rommel, or a real-time recreation of the Six Day War. Come over and participate, whether you're a wargamer, a conflict simulator, or merely a casualty. Everyone welcome, the more the merrier for an armor simulation game. Take out your aggressions in a new way: war!

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Commentary: Beginning on ASCIT



by Dennis Mallonee

Things never really change all that much, I guess. The days when a member of the ASCIT BOD could walk into Page and pick up a quorum are gone, though. Now he has to go all the way to Ruddock. The ASCIT Treasurer is fulfilling the function I filled as ASCIT Secretary: being obnoxious.

But when you get right down to it, every Board of Directors has to face the problem of deciding how it's going to be different from its predecessor. And that's the same thing as deciding all over again just what the student body corporation really is.

A Big Time Sink

Services offered to the students by ASCIT include the Coffeehouse, the publications (such as they are), the Friday movie program, the ASCITBUS, central funding for social events and student clubs, and sometimes donuts. But most people seem to

think this isn't enough to be ASCIT's reason for being.

So under the Rhodes administration ASCIT began to stick its nose into faculty problems in which students had an interest. The Educational Policies Committee has occasionally succeeded in doing things in the area of academic reform.

So Who Cares?

So who cares? Maybe nobody, maybe some people; certainly not everyone cares about ASCIT. Comment on the corporation has begun, and maybe somebody will find out that ASCIT really is.

Next week: Who says what the honor in the honor system really is?

Frets and Frails

like he might be worth seeing again. All three of these acts will be appearing until this Sunday night. (Further note: if you get hungry on one of your visits to the Ice House, try their Tortilla Dog. It's an experience.) -N.S.

Sci-Cons

Continued from Page Five

episode was made six years ago, have captured quite a bit of media coverage. In addition, they've been spreading over the years; Houston, Kalamazoo, Los Angeles, Miami, New Orleans, and New York (2) have all held them over the past year. In concept they're similar to the regular SF cons, but the emphasis is placed solidly on *Star Trek* or closely related subjects.

The other special interest "groups" (some are more organized than others) cover a wide spectrum of alternatives. Perhaps the most general is the film convention, like Desertcon or Filmcon. But there are Ape-Cons, Medievalcons, Nostalgia cons, Fortfests, Comix cons, and many more.

Memberships to conventions generally are of two types: attending and supporting. A supporting membership entitles

you to receive progress reports on the convention and is a way of showing that you care. They are normally convertible to attending membership by paying the difference between the two. Attending membership is just that: you get to attend, and you receive a name tag, program book, and other material.

In some cases—Worldcon and Westercon are examples—holding either membership to a future con or the current one allows you to vote on its site. Potential con committees are organized well in advance, and present site bids that are voted on two years before the actual convention.

Either membership (attending or supporting) to the current Worldcon entitles you to submit nominations for the Hugo, and to vote on the final nominees. (Now you know how Hugos are awarded.)

Worldcons

The next Worldcon ("Aussiecon") is in Melbourne, Australia, August 14-17, 1975. Guest of Honor: Ursula K. LeGuin. \$12 attending, \$4 supporting. Send c/o Fred Patten, 11863 W. Jefferson Blvd., Apt. 1, Culver City, CA 90320. Since this year's Worldcon is extracontinental, there will be a North American Science Fiction Convention (NASFiC) over Labor Day weekend in Los Angeles (exact location to be announced); GoH: Harlan Ellison. \$5 in advance. Chuck Crayne, 734 S. Ardmere, Los Angeles, CA 90005. More details on this one in a future article.

The popularity of *Star Trek* cons seem to have introduced a lot of people to the more established variety, or maybe it's the *Star Trek* programming that attracts them. In any event, Torcon in 1973 was the biggest Worldcon ever, with over 2000 members—and was overwhelmed by Discon II last fall with 4500! The 1976 Worldcon committee in Kansas City have been perturbed by visions of 6000+ attending MidAmeriCon, turning comparatively sedate meetings into madhouses.

To hopefully reduce attendance, the committee has taken two steps: the elimination of *Star Trek* programming, SCA programming, all-night movies,

comics items, or "Ape" items from the con program; and a sliding scale of increasing membership rates:

1/1/75	.....	\$6
5/1/75	.....	10
9/1/75	.....	15
1/1/76	.....	20
5/1/76	.....	25
8/1/76	.....	50

Supporting membership will be \$4 until May 1; \$5 until January 1, 1976; and \$6 thereafter. If you're contemplating attending this con (Sept. 1-6, 1976, GoH: Robert A. Heinlein), join now. MidAmeriCon, Box 221, Kansas City, MO 64141.

Local Cons

Equicon 75/Filmcon 3, May 23-26. A combined *Star Trek* and film-oriented con, at the El Cortez Hotel in San Diego this year to give LA fandom a rest. \$10 attending until May 1, \$15 thereafter. \$7 per day. \$5 for supporting membership. P.O. Box 15757, San Diego, CA 92115. See Bruce Miller (38 Dabney) for info on car pools and hotel rooms.

Westercon 28, July 3-6. Hotel Leamington, Oakland, CA. GoH: David Gerrold. \$5 attending until May 1; \$6 thereafter. Box 24560, Los Angeles, CA 90024. If you're interested, see Gavin Claypool (72 Ricketts).

Mythcon VI, August 15-18. At Scripps College in Claremont. (Nice and local) Memberships \$5.50 until July 1st.

For information on other conventions, *Analog* has been running a summary under the title "AnaLOG" almost every month; I believe *Fantasy & Science Fiction* does the same under "SF Calendar." Another source for convention news, announcements of forthcoming books, book reviews, random notes, and just about everything else concerned with SF or its people is *Locus*, published by Charlie and Dena Brown. It's a four or eight page offset printed "newspaper" produced about tri-weekly, and just filled with interesting stuff. Subscriptions are 15/\$6 payable in advance to Locus Publications, P.O. Box 3938, San Francisco, CA 94119. Tell them you read it in *The California Tech*.

Finally, two brief announcements from Ellison's UCLA class: *Children of Dune*, by Frank Herbert, will be serialized in four parts by *Analog* at the start of next year; *The Hand of Oberon*, by Roger Zelazny, will probably be finished next month and will be published around the middle of next year (although serialization may occur sooner).

-Gavin Claypool

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Crazies

Continued from Page Three

a little bit of this strange fellow, but to try to change us all is our danger. Yet, look around. See a little obsequiousness here, a little obnoxiousness there, pampering, pandering, nasty, squiddy; why the Eddie Haskell in all of us is being brought to the fore. Everywhere you look the Beaver Cleavers of the world are being stepped on and crushed.

"But what can I, the little guy do to stop this?" you may ask. The answer is clear. Bowling. Go to the gym and grab a ball and start throwing it around. Laugh, dance, break those alleys apart. Take the wood and go have a campout. Make a deck of cards and play all night. Put out the fire with squirt guns and then go climb a tree. Take off your shoes and you can life in a tree. The essence of our youth is in pleasure. If rationality is the means to their ends, then we must be crazy. They can't understand it and they can't control it, and this alone can set you free. Captain Hook tried to beat us down and he lost his battle. But Peter hasn't won the war yet. He's still waiting for us in Never-Never Land, and if we don't hurry, it may be too late to join him.

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Hockey Foes Shut Out

by Bob D. T. Hardy

The San Diego State Aztecs crumbled into gelatinous globules of quivering dumbfoundities when they realized the awful power of the Caltech hockey heroes last Saturday in San Diego. In an earlier game this season San Diego played Tech at Tech's home ice and was, of course, demolished. But who was to say whether that humiliation was due to the unhappy fact that only half of the Aztecs showed up for the game (the other half having gotten lost in the bowels of the Los Angeles freeway system while trying to find West Covina), or whether it was due to Caltech's superiority. Put bluntly, in the previous game San Diego's eight players did surprisingly well against Caltech's sixteen. It was by no means the easiest game of the season, no piece of cake, beer and a chocolate donut.

A vivid imagination is not needed, then, to understand the thoughts that troubled the Caltech players as the time to confront the complete cohort of Aztecs on San Diego ice approached. Nor is it difficult to envisage groups of greedy Aztecs huddled in dark corners, rubbing their hands together, and saying, "We're gonna pull those faggot egghead Techers apart with our whole team," and, "They stand a smaller chance of winning than one over the number of

neutrons in the universe." One can deduce all this without acute mental exhaustion.

The cogitations and calculations fomenting in the, dare I say, minds of the incipient players favored in an obvious way a San Diego victory. But something more devastating and subtle was underway as game time approached. In recompense for the Aztecs that had been digested by the L.A. freeways in the previous encounter, the Tech team had been supplied with upside-down, distorted, and misleading maps of how to get to the San Diego ice rink.

Let us be brief. The Techers were not fooled, they all showed up, angry. Rogers, Moyls, Harris, Sweeney, Wood, and Gates each scored, Cliff Brown got another shut-out. The final score was 6-0 Tech.

Do not forget the party April 26, 8:00 p.m., 462 S. Marengo. Stay tuned for results from Boulder.

Options

Continued from Page Three unrelated areas of engineering, while Ge includes Ge, GeoPh, and GeoCh.

It seems that this year's Frosh are over-ambitious—not one single HSS major (except for one second major in English). Oh well, we will have plenty in four years!

Sport Sprouts

12 noon	Baseball (2)	Saturday, April 26	Redlands	Home
1:30 p.m.	Tennis		Whittier	Home
12:30 p.m.	Golf	Monday, April 28	La Verne	Home
3:00 p.m.	Baseball	Tuesday, April 29	Pac. Christian	Home
9:00 a.m.	Track	Friday, May 2	SCIAC Prelims	Oxy
1:00 p.m.	Golf		La Verne	Away
1:00 p.m.	Tennis		SCIAC Prelims	Redlands

Few Runners

Cindermen Drop

by Tommy Burgher

The Tech trackmen met with yet another defeat last Thursday at the hands of visiting Ambassador College by a score of 93-47. Coach Leroy Neal was again plagued with the problem of trying to pull athletes out of thin air. The limited number he was able to obtain performed well, with an outstanding day for senior Doug Herbert.

The discus record was broken for the second time in a week by Herbert, establishing a new standard of 154'6" while winning the event handily. His second win of the afternoon was in the shot put, his 43'7½" heave giving him a 13'3" advantage on Ambassador's top mark. Talented transfer Larry Wise nabbed a first in the triple jump. Other bright spots for the field men include a first by Duane Boman in the long jump, and third place marks by Don Hamasaki in the pole vault, Bill Sharman in the javelin, and Boman in the TJ.

Senior Greg Griffin, one of Coach Neal's most consistent

point-scorers, was again hindered by injuries. He still managed to place 3rd in the 3-mile and the mile, as well as the half-mile, an unusually short race for him.

The only first place Tech managed to gain outright (in the track events) was in the 120HH, with Boman getting yet another place. A tie for first in the 100 yd. dash between John Land of Tech and Robertson of Ambassador gave land 4 points in addition to 3 for his second place finish in the 220. Hope for the future was indicated by the second place finish of Duane Gray in the 880, and the third places taken by Dave Sivertsen in the 120HH and newcomer Joel Okasaki in the quarter-mile. All three of these runners are freshmen.

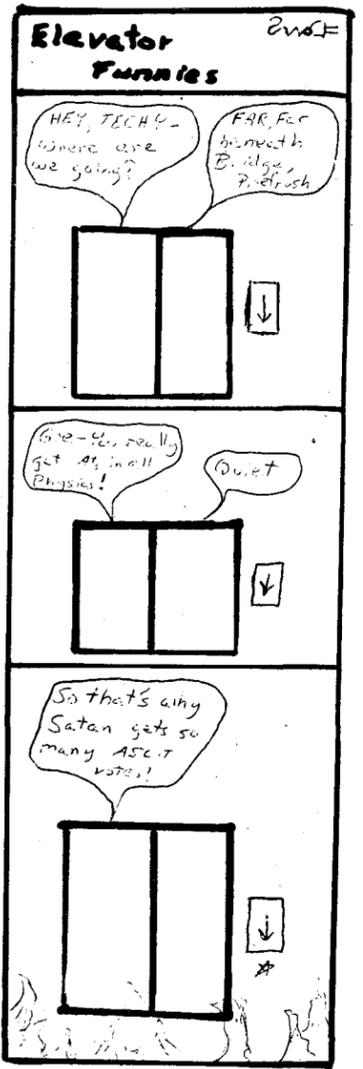
Tech goes into action again next Tuesday against Claremont-Harvey Mudd and the University of Redlands, featuring the Taiwanese delegation of athletes led by assistant coach Chi Cheng, former world's record holder in the women's sprints and Olympic gold medalist.

Interhouse BB

Page edged Dabney 43-40 to sweep Interhouse basketball while Ricketts lost all trophy points via a forfeit to Fleming last Tuesday. Trophy points for the other houses were: Page-56, Fleming-48, Dabney-40, Blac-

ker-32, Ruddock-24, and Lloyd-16. The accompanying chart gives a summary of all games played. The winning teams are along the left side and the losing teams are across the top.

	Fl	Da	Bl	Ru	Ri	LI
Pa	34-27	43-40	42-37	50-35	60-23	49-28
Fl		28-21	35-33	32-29	2-0	46-21
Da			32-26	43-40	56-17	30-23
Bl				43-25	35-24	35-26
Ru					36-21	41-29
Ri						40-17



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