

The Library That Never Was: Harold Brown's Failure

With the Institute once again facing the selection of a president, the time seems ripe for a re-examination of Caltech's problems at the time Harold Brown was selected and what happened to them under his stewardship. This week's episode: The Case of the Missing Humanities Library.

In April of 1969 the *ad hoc* Faculty Committee on Aims and Goals urged that "the important role played by the humanities be protected, strengthened, and even somewhat expanded." But it also noted that "any expansion in the humanities will necessitate a much larger library," and advocated that planning for a new library facility be undertaken immediately. Obviously, attracting good new faculty members in the humanities necessitated providing research and intellectual conditions allowing them to advance their scholarly development.

Millikan library had been recently completed (with the proviso that it remain the tallest building on campus for twenty years) and was already being recognized as inadequate for the needs of an expanding humanities department. The sort of

goals kicked around for that period were 400,000 volumes in the Humanities by 1977 and figures as high as one million volumes had been mentioned as early as 1964 by such notables as Murray Gell-Mann. Proposed growth rates ranged from 30,000 volumes per year down to 13,000. One of the first factors to be taken into account was just how much Millikan could hold.

The formula is: a full floor in Millikan has 2100 shelves, figuring 7 shelves to the section. Each shelf is 3 feet long and will hold about 25 average volumes. Given the average size book, the total capacity for 2100 shelves would be 52,500 volumes. The practical capacity, however, is about 80% of that figure, or 42,000 volumes of standard size. This neglects the proliferation of non-standard size volumes, which reduces the capacity to about 38,000.

At the time, humanities occupied floors 3, 4 and 5 of Millikan with floor 3 being 100% full and floors 4 and 5 were expected to be "uncomfortably filled" within three to four years. Thus the "squeeze" was to be on from '72 forward. By installing exceedingly inconvenient stack

columns to extend the shelves to the ceiling it was hoped that capacity could be increased 25% and a complete logjam of books and periodicals averted for two more years.

As to building a new library, roughly 15 volumes can be housed per square foot, with the total footage being about three times that figure to allow for public services, staff, machinery, equipment, lobbies, etc. Estimates for a square foot of building hovered around \$40.

Please turn to page three

Women Only Housing May Come Next Year

By Jim Reichle

Next year's female freshmen may be able to opt for single-sex housing here at Caltech. A plan to reserve the old ROTC Annex for women only will be acted on soon by the Housing Committee.

According to Ralph Kavanagh, chairman of the committee, the Annex is the most likely site because of its proximity to the rest of the houses. It is not as isolated as some of the off-campus locations, nor as integral as a female-only alley in one of the houses would be. The Annex would also be cheaper to use, says Kavanagh, since it requires no modifications for this kind of experiment. The coeds who would live there would participate in Rotation, and have membership in one of the regular houses, says Kavanagh.

Two months ago, six undergraduate women contacted Housing Committee member Fred Shair about the possibility of single-sex housing. Master of Student Houses Jim Mayer recently polled the female undergraduates here about the idea. Most of the respondents took a "dim view" of it, according to Kavanagh. Mayer says the parents

of some prospective female freshmen have expressed concern over the forced coed housing here. In an effort to eliminate this potentially discouraging feature of Caltech life, the Housing Committee came up with its present plan.

Single-sex housing for undergraduate women has been tried three times before here. When women were first admitted to Tech, in 1969, they were all put in one alley in Blacker house. This arrangement lasted about three weeks. The women were absorbed into the other houses. A few years ago, single-sex housing was instituted at Lura Street, but the coeds there felt too isolated.

The plan for single-sex housing next year is still in the housing committee. Kavanagh expects the committee to make a recommendation to the faculty committee soon, to get things rolling. The plan must be approved before mid-March to be useful, says Kavanagh. This is when the admissions committee goes out to interview applicants. Kavanagh would like the interviewers to be able to offer the single-sex housing option to the female applicants who want it.

Exchange Yourself for a Year

Caltech has two exchange programs available to undergraduates. The first is an exchange with Occidental College and Scripps College. Students enrolled at Caltech may schedule classes at either of these institutions and receive credit for them at Caltech. Students pay the regular tuition at Caltech and normally do not have to pay more tuition at these colleges. There are occasionally special fees to be paid. Students must have obtained the approval of the instructor of the exchange course, the student's option advisor, the Registrar and the Division offering courses most similar to the proposed courses.

The program was designed for students enrolled at Caltech who wish to expand their programs by taking advantage of the variety of courses offered at Occidental or Scripps. The program is not normally available to freshmen. Anyone interested in the program should consult the catalog from Scripps or Occidental to find courses they would be interested in taking. These catalogs are available in Millikan Library. After choosing courses to be taken, students should prepare a program and discuss it with their advisors. If the advisors approve, check with the Registrar. If the Registrar approves, go enroll for the class. Students are allowed a normal load. Grades obtained in these exchange program courses are

not used in computing Caltech's GPA. They are listed on the transcript as credit received.

There is another exchange program whereby Caltech students may spend up to a year at another college. We presently have these arrangements with Antioch College, Pomona College, Swarthmore College, and Williams College. Students consult the catalogs of these colleges and prepare a program of classes. The courses must be chosen so that the students complete the requirements for their Caltech degrees in the normal time. This requires some assurances that the courses taken will count towards the degree. This usually involves a statement from the option representative or the Registrar. After a program has been prepared, the Dean sends a letter of recommendation to the college concerned and the college normally accepts the student.

The program is designed for good students who feel they would like to spend a period away from Caltech. Catalogs for these colleges may be found in Millikan Library and in the Deans' Office. Tuition must be paid by the students to the institution they are attending. In some cases, financial aid may be available from Caltech. Interested students should consult with the Financial Aid Office. The colleges listed above are all small liberal arts colleges. Pomona is

Please turn to page three

Olive Walk Changes

By ed Bielecki

Some time in the near future, the Olive Walk "planters" will reappear on the Olive Walk. (ed note: My information that the PFD was unhappy with the "planters" appears to have been wrong.) This means that things will be back the way they were before the Beautification of Third Floor Millikan.

The following is the administration's proposed solution to the Olive Walk Question:

1) No parking, driving, or unloading on the Olive Walk at any time, except at the beginning and end of the term, at which time the planters will be moved out of the way.

2) No parking, driving, or unloading on the Quad, from 8 am to 5:30 pm weekdays.

3) On weekends, and from 5:30 pm to 8 am on weekdays, the traffic control posts in the David R. Smith Memorial Ramp will be removed so students can take advantage of the 30 minute unloading rule. Parking will at no time be allowed on the Quad.

This last is very different from the way things were discussed by the IHC last week.

If you have any comments or complaints about this proposal, collar Marc Wold, the new IHC Chairman, and tell him.

Prof Wins Award

William A. Fowler, Institute Professor of Physics at Caltech, has been awarded the Eddington Medal of the Royal Astronomical Society for his outstanding contributions to nuclear astrophysics.

The Eddington Medal, which commemorates the late Sir Arthur Eddington, British astrophysicist, is awarded approximately every three years for specific investigations in theoretical astronomy.

The Royal Astronomical Society's Council has cited Dr. Fowler for his pioneering research in nuclear physics and its impact on astrophysics. Particularly noted were his investigations of the origin of the chemical elements, the production of deuterium and helium in the universal fireball and massive objects, and the release of gravitational and nuclear energy

in massive objects.

Other honors and awards given to Fowler include the 1972 Vetlesen Prize from Columbia University; the Tom W. Bonner Prize from the American Physical Society (1970); the Medal for Merit from President Truman in 1948; and the National Medal of Science from President Ford in 1974.

Fowler is a member of the National Academy of Sciences and in 1976 he served as president of the American Physical Society.

Fowler received his PhD from Caltech in 1936 and joined the faculty that same year. In 1970 he was chosen to be the first holder of the Institute Professorship of Physics, an endowed chair established by Caltech to give special honor to outstanding faculty members.

Tech Staff

Help Wanted

Since I have been working for The Tech, and especially since becoming editor, I have observed an interesting phenomenon. Lots of people complain about the quality and/or quantity of The Tech—"What happened to the twice-a-week Tech" "How about twelve pages", "How come there aren't any sports stories", "How come so much on entertainment", and many other cries have become familiar refrains.

Well, there is a simple solution to these and many other problems. Join the Tech staff. If you are involved in an activity you feel doesn't get enough publicity,

write about it (or take pictures). Or if you're not involved in anything, come to Lit 15 meetings Tuesdays at 12:15 pm in 128 Baxter. Earn three units of credit for writing a story a week! Or, just drop by the Tech office. If you can't write, we can always use people to do layout and pasteup (if you don't know what that is, we'll teach you) on Wednesdays and Thursdays.

So, from now on all complainants about The Tech (or its contents) will be treated the same as people wanting to join the staff.

Spencer Klein

Reflections

To the Editor:

I like to share what is important to me. The letter (the long one) I wrote here four weeks ago was important to me; I was glad to share that. Physics is important to me, I like to share that. But I want even more now to share some feelings which no one I've encountered to date seems very able to relate to.

I came to Caltech starving for approval. I realized during the tenth grade that math and physics were due to be the most important elements of my life. No one was able at the time to understand these values or to take seriously the commitment I'd established. For the next two years I felt fundamentally isolated from other people and considered myself freakish and unworthy of being taken seriously except by myself.

Since coming to Caltech I've felt an unprecedented sense of fellowship and understanding from my peers. This is a frustrating as well as fulfilling experience for while I have learned a great deal thereby of both social and scientific relevance, this only aggravated some of the problems I brought with me here.

We are all products of our environment. It is my opinion that boys of our culture are prepared during childhood in a rather brutal manner for a brutal existence. They are conditioned to react to the physical world in a physical manner, on its own terms. By contrast girls are raised indulgently. We are conditioned

to react to the physical world in an indirect and social manner. It is as though through this indulgence society tries to apologize for the brutal treatment it accords its boys.

We are trained to act in these and other differing manners through the selective approval we receive during and after childhood. To some extent what is accomplished hereby can be overridden through other means, but it is difficult to overcome the loyalty and a good deal of the indoctrination developed during childhood.

The ways in which the forces of peer approval have acted upon me since my coming to Caltech disturb me in a way. I find it easy to impress people here with my intelligence, my perseverance and my reasoning abilities; in short, using a common local definition, with my studliness. This approval I find most welcome and essentially unprecedented. Yet what disturbs me is not the approval I do receive but that which I don't, not the amount of approval but its nature.

Insofar as social roles are concerned, the approval I received previous to Caltech was by nature conservative if not reactionary. The difference in my situation here is mostly due to the lack within the Caltech undergraduate environment of an established and socially enforced code of feminine social behavior. Such a code has evolved in any area of society in which a place has traditionally (historically) been asserted for girls or women.

I often feel I don't fit within the Caltech undergraduate social environment as a girl or as a boy

but as something in between and apart from both. Normally what substantiates or legitimizes any social role is social approval. My problem is that it is difficult to find this sort of approval here no matter how I act no matter what role I (try to) assume. It isn't replaced by social condemnation but by indifference.

I'm not talking about role models or about individual relationships. I'm talking about a social code, about myself as a member of a social group. I'm talking about a process of adjustment from one obsolete social code to a poorly or unspecified other. While I have the ostensible liberty, within very reasonable limits, of defining my own social code, i.e. of choosing my own role within the social milieu, this liberty loses its import because my basic needs for substantive and meaningful myself at a loss to satisfy the social needs thus liberated in a social contact aren't being and won't be met in this manner. Even after having forsaken the repressive and degrading social structure I grew up with, I find

non-self-destructive and non-escapist manner.

I haven't conclusively solved this problem nor do I expect a tangible resolution as a consequence of this letter. But as I mentioned earlier, this is damned important to me and I'll be damned if I continue to keep it to myself. As always, I welcome any responsible and/or constructive comments, even if it's only someone telling me that (s)he understands what I'm trying to say.

Judy Powelson
1-54, O.C.

TQFR

Wwhoopps

To the Editor:

I was looking at my 1976-77 TQFR, and I was studying the MEAN and STDEV data on various classes. I came to AMA 95, with STDEV 7.4 in criticism. Fascinated, I searched for higher STDEV's, but that was the largest. Then I thought that 7.4 was rather large for data on a scale of 1 to 7. By trial and success I found that the formula that was used to calculate STDEV was:

STDEV = $\sqrt{(\sum(x_i - \bar{x})^2 / n)}$

where x runs over all the data. Now I don't know very much statistics, having taken only Ma 2c and Ph 3 for education in that field. But I thought that the

formula for standard deviation was:

S. D. = $\sqrt{(\sum(x - m)^2 / (n - 1))}$

Using this formula, the standard deviation of criticism for AMA 95 is 1.62.

The standard deviation is approximately the range about the mean within which 2/3 of the data lie. Since the mean is 2.8 in this case, the implied range is about 1.2 to 4.4. Since TQFR data are discrete rather than continuous, if we assume that the integer 'n' really means a random variable uniformly distributed between n-1/2 and n+1/2, we are justified in including 3/10 of those responding 1, all of those responding 2 or 3, and 9/10 of those responding 4, as being in the range 1.2 to 4.4. This yields about 60% within 1 standard deviation of the mean. I think it is clear by this discussion that the second formula is correct, while the first formula and the published value of 7.4 is meaningless. Note that to correct the published STDEV's just divide by (n to the 1/4) for a very good approximation.

Other than this error and that many of the classes in which I am interested are not listed in the TQFR, I have no criticisms. By the way, in case the Director of Academic Affairs thinks I might like to help out on the next TQFR, the answer is "NO!"

Joel Rubinstein

Apology

I wish to apologize to my readers for my rather slipshod review of Close Encounters. Many of my facts were in error and there was a good deal of carelessness in my journalism. I would like to reply to Craig Jone that the Tech should not print plot material, however. The Tech is the press and as such is protected by several rights granted the press in the U.S. Constitution. We can and will print reviews containing plot material because we feel that that is a valid form of journalism. If anyone does not care to read reviews that divulge some of the plot they can simply refrain from reading the reviews.

David Ritchie



Faculty carved the roast beef in last Wednesday's special food service dinner.

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Editor in Chief
Spencer Klein

Business Manager
Kevin Drum

Writers

Ken Duncan, Spencer Klein, Mike Kurilla, Sandy McCorquodale, Jim Reichle, David Ritchie, Joel Rubenstein, Geoff Sommer, Brett Stutz, Richard Willson

Photographers

Dave Wheeler (Darkroom Chairman), Don Bacon Marc Berger, Greg Bone, Joe DiGiorgio, Al Kellner, Yin Shih, Chris (Toxic Yellow) Wheeler

Production

Flora Boyer, Nick Smith

Circulation

Carl Lydick (Manager), Bill Gould. The California Tech publications offices are located in Winnett Student Center (107-51), California Institute of Technology, Pasadena, Ca. 91125. Telephone: 795-6811, Editorial-ext. 2153, Business-ext. 2154. Printed by News-Type Service, Glendale, Ca. Second-class postage paid at Pasadena, Ca.

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Thanks

To the ex-Editor,

Thank you very much for your help with this year's mudeo. We feel it was a great success, as we enjoyed it almost as much as the freshmen and sophomores.

In case you hadn't seen the photographs in the Pasadena Star News of last Monday, we've included copies for you.

Again, our thanks for your assistance.

Sincerely,

The Junior Class Officers:
Paul Gutierrez
Marc Wold
Jeff Copeland
Doug Tally

Complaint

To the Editor:

We are disappointed that you choose to print the THUNCAN comic series on a sporadic basis. This comic is without a doubt the most accurate, relevant, and humorous commentary that the Tech makes to the Caltech community. The writers obviously possess a deep insight into the true nature of all mankind and are miraculously able to express their thought-provoking philosophies in just four short panels. The Tech staff should be down on their knees begging these writers to accept salary increases to continue their work.

Anonymous letter from two people who don't even know P. or M

Art Exhibit

Karen Shaw will be shown.

Dr. Susan C. Larsen, assistant professor of art history at UC will be guest curator for the show, which will run through March 25.

Baxter Art Gallery is operated by Caltech's Division of Humanities and Social Sciences and the Pasadena Art Alliance. The gallery is located in the Donald E. Baxter, M.D. Hall the Humanities and Social Sciences on campus, and is open to the public without charge. Hours are noon to 5 p.m. Tuesday through Sunday. For further information, call 795-6811, ext. 1371.

"The Poetry of Systems," a new exhibit opening at Caltech's Baxter Art Gallery on February 23, will include a wall drawing designed by New York artist Sol LeWitt especially for the show and executed on the wall of the gallery. After the exhibit, the drawing will be painted over.

Photography, sculpture, other paintings and art forms in the exhibit will center around the artistic use of the logical progression of systems—e.g. a musical scale or familiar geometrical properties. Work by artists Channa Horowitz, Paul Fend, Joyce Lightbody, and

Library Failure

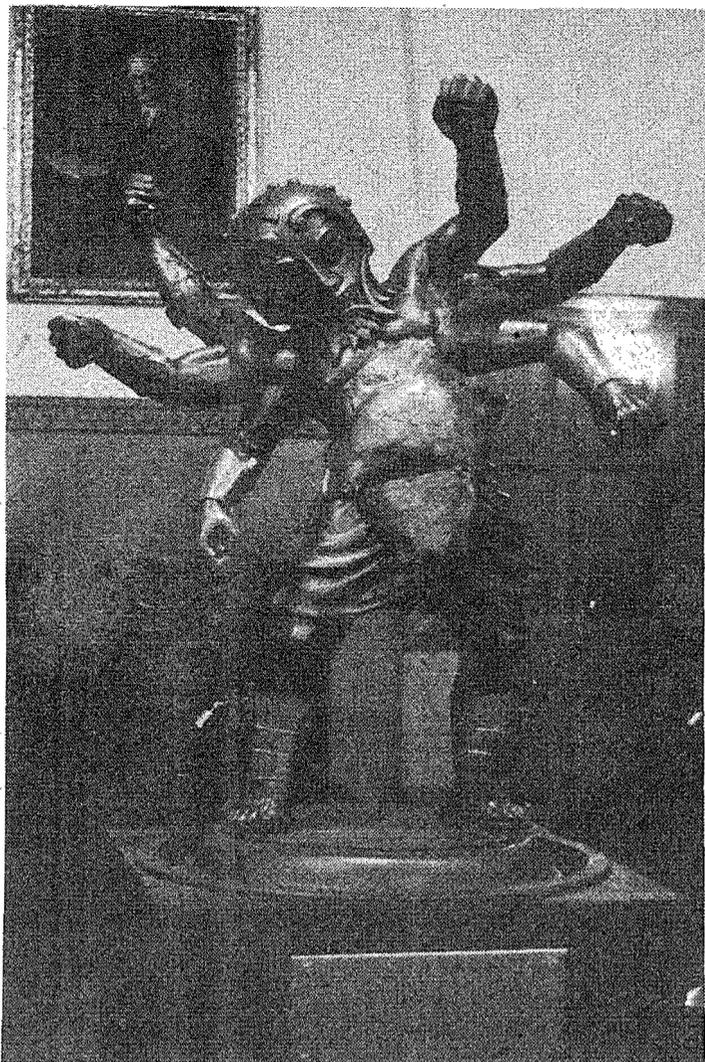
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Thus, without going into the gory detail, roughly 40,000 square feet would be needed to house 500,000 volumes at a cost of \$1.6 million? estimated for a strictly utilitarian building. Not only was this library not built despite all the forecasts showing the need for it to be critical by now, but Harold Brown, used to more elegant digs in D.C. while directing the napalming of peasants, turned up his nose at a renovated Gates for housing the administration and promptly cleaned humanities out of the third floor of Millikan.

Where did all of this leave Caltech? How about the trailing edge? At the time of Harold Brown's arrival Caltech had collections totalling 200,000 volumes, compared with, say, MIT at 1 million plus, UCLA at 2.2 million and Harvard with 5 million plus. These statistics are, of course, somewhat misleading as the existing literature in humanities is vastly greater than that in science. A typical university library is approximately 80% humanities and 20% sciences.

Finally, it takes a great deal of money to put together a major library. Not only is it difficult to induce people to donate money for the purchase of book collections (not quite as visible or ego-rewarding as a building with your name on it), but Caltech has been experiencing difficulty raising money lately, primarily because the economy has been sluggish at best since Carter was elected. After Harold Brown sat on the problem for eight years, it's difficult to envision the new Institute President being anything but expansionist. Brown pared Caltech down and kept it lean through a critical period of falling government financing of research and economic stagnation, but we may be a bit too lean right now.

-McQ



Your illustrious new Tech editor

Pantomimist Performed

On Jan. 26, if you had the misfortune of not being on the quad at noon, then you did not see Israeli pantomime artist Shmuel Livne. This entertaining performance was sponsored by the Caltech Hillel. The most amusing act was "Sword Swallower." The swallower makes great motions to please the crowd. The flourishes and embellishments do not help the swallower to swallow the sword, but are there to impress and awe-strike the audience. This swallower slowly works the sword in, but presently discovers that he cannot remove it. He tries to work his struggle to remove the sword into the act, but inevitably

fails. In another act, "Orchestra," Livne conducts an orchestra playing music by Rossini. He also plays several instruments in turn, and makes fun of a string bass player who falls over in the middle of the piece. My only criticism of this act is that sometimes he imitated musicians playing instruments that could hardly be heard in the particular passage.

Other themes were based on *Genesis*, war, and childhood. In this sense his performance was very Israeli. Israelis are proud of their ancient ties to the land of Israel. Bible is a required subject in both the secular and the

religious schools. The influence of war on Israel society cannot be overstated. There is compulsory military service for three years beginning at age 18, and everyone serves in the reserves. The army is the most pervasive institution in Israel. And Israel is one of the most child-oriented societies in existence. There is free kindergarten from age three. On Kibbutzim especially, children are given highest priority.

Livne performs as a mime with the L.A. Philharmonic, acting *The Jungle Book* by Kipling. He teaches at Santa Monica. His next performance in the area will be at Temple Bnai David in L.A. on March 4.

Trustee Wins Award

Harry J. Volk, a Caltech trustee, will receive the first Rutgers Club Community service award. Volk has been a trustee since 1950.

The award will be presented by Dr. Edward J. Bloustein, president of Rutgers University. It is given annually to a Rutgers alumnus in recognition of outstanding civic responsibility. Volk was a member of the Rutgers class of 1927 and the Rutgers-Newark Law School class of 1930. He is now Chairman of the Board of Union Bancorp, and services on the boards of Pacific Lighting, Western Airlines, and Times-Mirror.

Extra

Space

Exchange

continued from page one
nearby, Antioch is in Ohio, Swarthmore in Pennsylvania, and Williams in Massachusetts.

The colleges listed above are ones with which we have formal exchange programs. In individual cases, if a student is interested in another college or university, we could write directly to try to make similar arrangements. During the last few years, we have had discussions along these lines with people at Bennington College in Vermont and Oberlin College in Ohio. We would be quite willing to try to make such arrangements.

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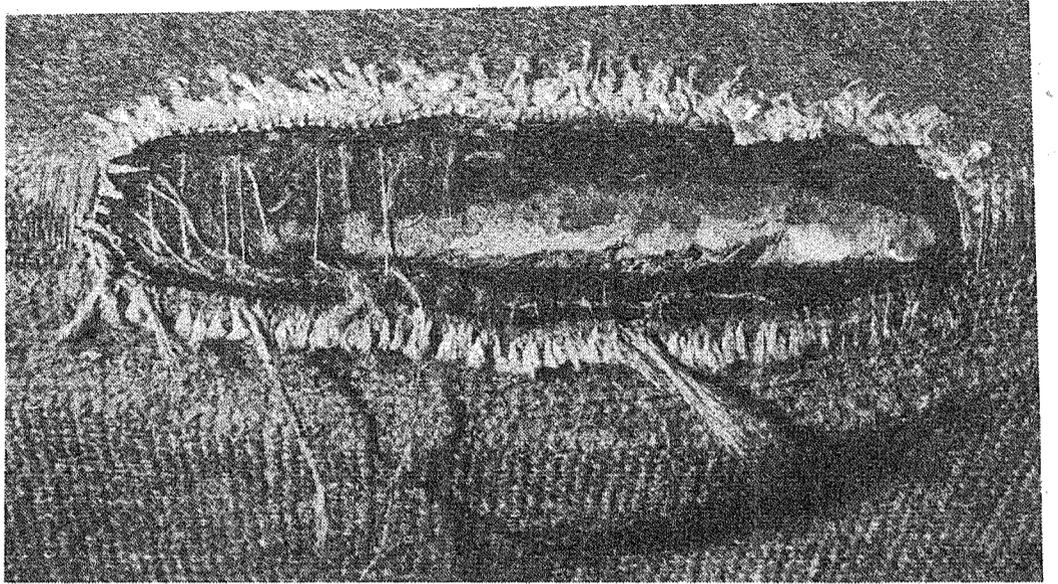
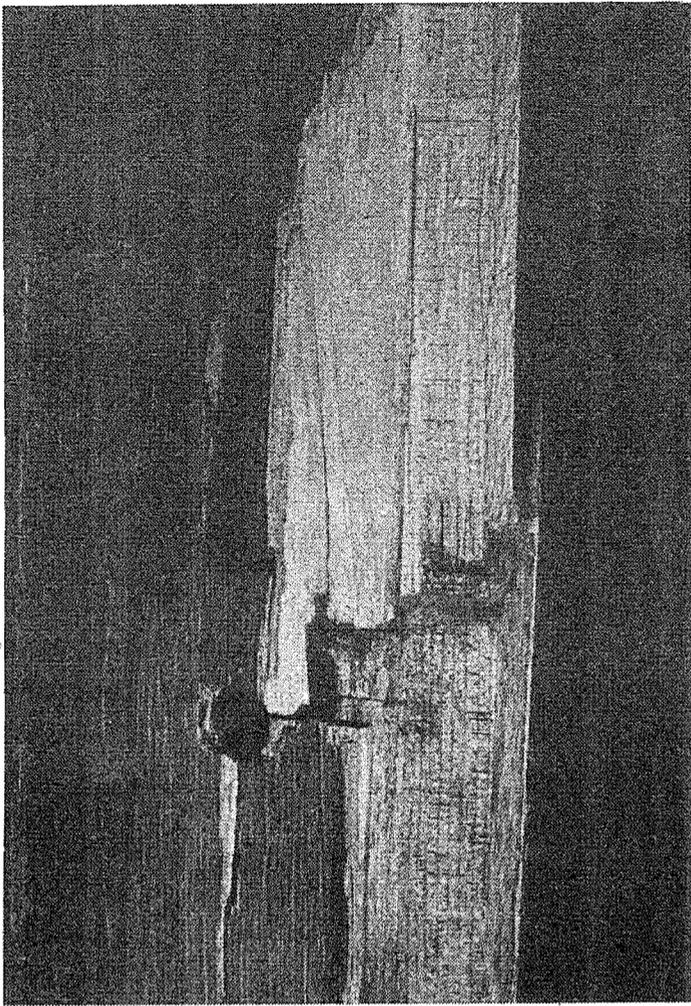
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Student Houses Need Repair



For many years, the student houses have been in a state of not so benign neglect. Because of this, they have become rundown and dilapidated. In many places, they violate OSHA regulations.

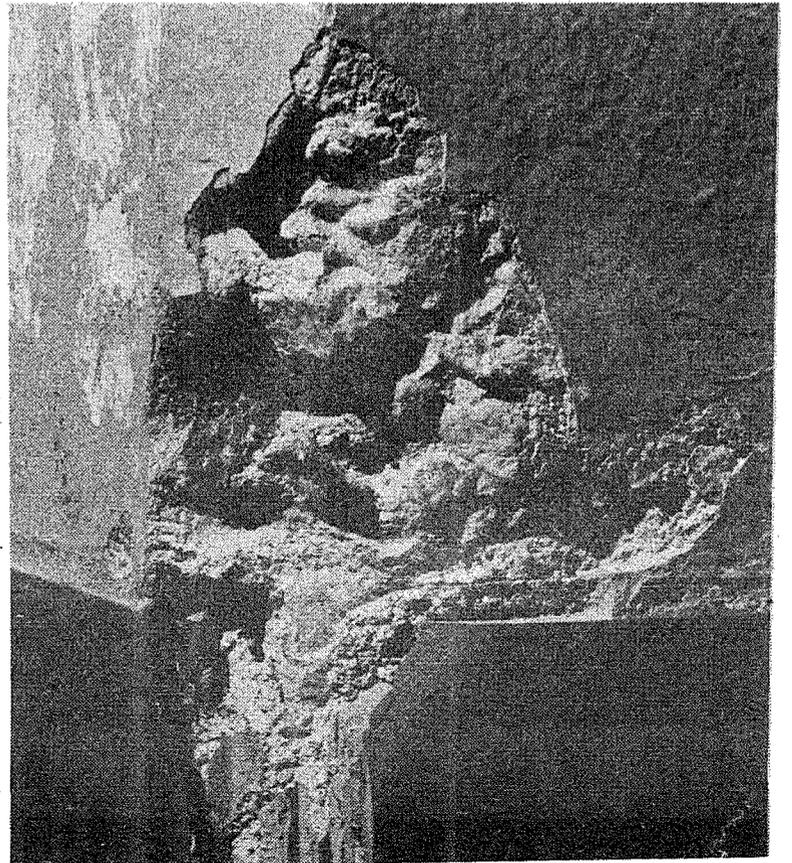
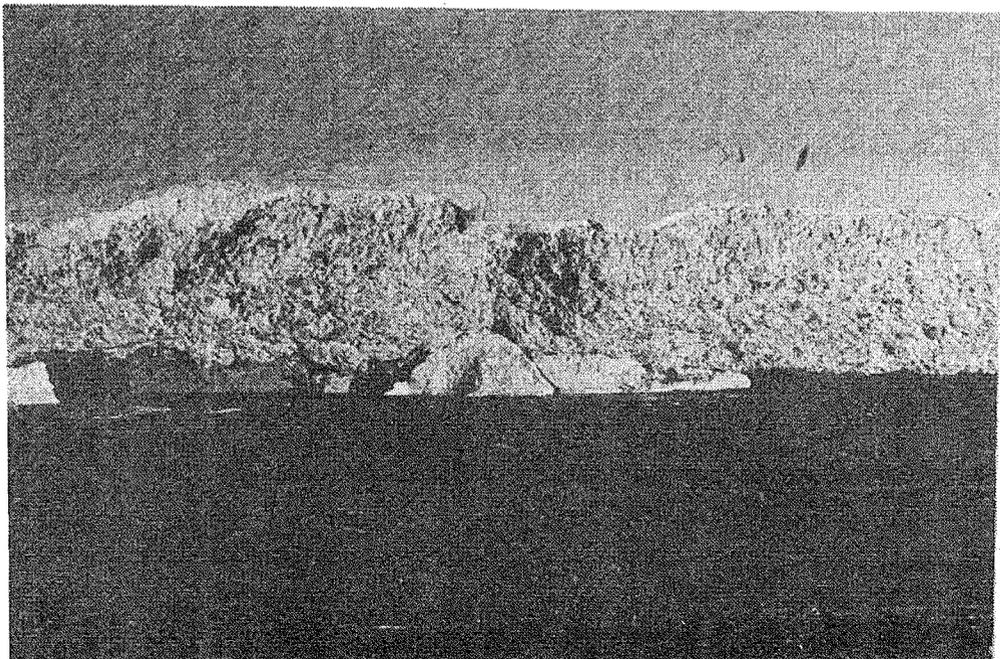
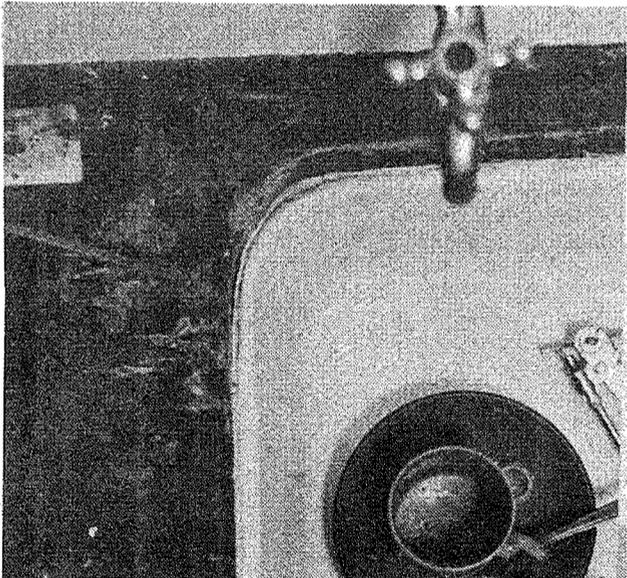
The administration has finally taken some interest in the problem. President Christy set up a committee to investigate the problem. Among the numerous things needing rehabilitation are holes in walls, unpainted walls, cold cement floors in rooms, inadequately lighted corridors, frayed carpets, and virtually useless kitchenettes. Anyone who has lived in one of the houses for any length of time is doubtless aware of these and many other problems.

It is about time that the administration took an interest in student housing. However, just

setting up a committee doesn't guarantee that something will be done. There are many pitfalls to be avoided. "Necessary repairs," may take up much or all of the money, leaving things essentially as they were. Christy may only make a token appropriation. Or worse, the project may just die away, never to be seen again.

If you feel (as I do) that this project is important for our welfare, tell someone about it. Talk to someone on the committee (Dr. Robert Kavanagh, Dr. Jim Mayer, Robert Gang, Eric Kaler, Sheila Creuther, Jim Mingus, or Phil Rector), and tell them what you think needs to be done. Or, let the administration know how you feel about this desperately needed rehabilitation.

—Spencer Klein

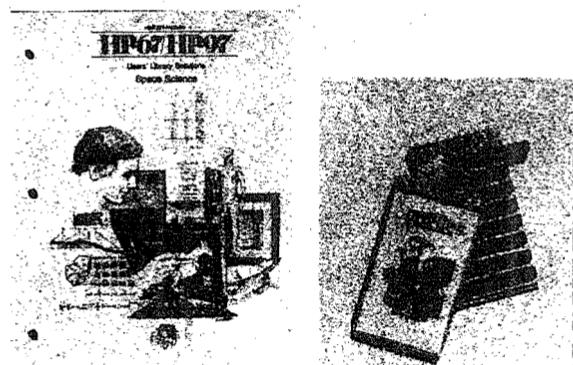
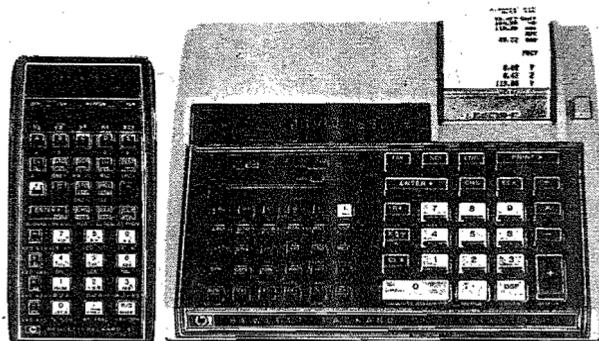


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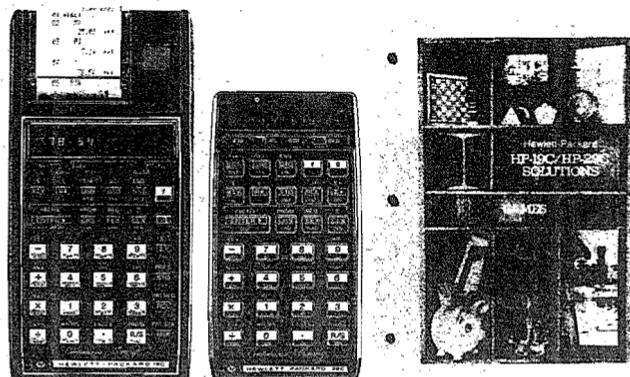
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BUSINESS: Options/Technical Stock Analysis; Portfolio Management/Bonds & Notes; Real Estate Investments; Taxes; Home Construction Estimating; Marketing/Sales; Home Management; Small Business
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AT THE CALTECH BOOKSTORE

Entertainment

Frank Capra, former Techer, will be with us this week at Cinematech in the form of two of his most popular films, *Mr. Deeds goes to town* and *It's a wonderful like*. Capra graduated from here about 1918 with a degree in (don't hold it against him) chemical engineering. After graduating, he started writing comedies for Mack Sennett and later took up making films. He's the only director to ever have a film win all the top Academy Awards in one year-*It happened one night*(1934). This film took best picture, director, screenplay, actor and actress.

Mr. Deeds goes to town is a quaint story about a small town, down to earth poet who suddenly inherits a large fortune. The results of his exploits in the 'big' city and his attempts at dispersal of his fortune are portrayed. This film contains some of the funniest scenes Capra ever did. Throughout the film Capra pokes fun at the rich and the parasites of the rich, while at the same time showing the importance of simple values.

It's a wonderful like stars Jimmy Stewart and marked the end of a five year drought for

him. The film answers a very basic question that almost everyone has asked himself at one time or another- what if I hadn't been born? Jimmy Stewart asks himself this when it looks as if his life has been a failure. The answer he receives is to personally see the results of a world that had never known or felt his presence. In the end he realizes that although things might be bad, without him they could only be worse.

Cinematech shows are Saturday evenings at 7:30pm in Baxter Lecture Hall. Donation is only \$1 for ASCIT and GSC members, \$1.50 for the general public, and 75 cents for children under 14.

ASCIT this week has gotten its hands on the hottest kung-fu movie ever made. This is the last Bruce Lee film ever made. In addition it has grosses \$27,000,000 at the box office. The reason for its success is that this is the masterpiece of martial arts. Please note that this is not my personal opinion, but the opinion of a large group of critics. Besides the usual martial arts there are also drug smugglers and white slave traders. Perhaps

Friday, February 3rd is the day that world renowned harp-sichordist Malcolm Hamilton comes to Ramo Auditorium. The program for the 8 pm concert is as follows: *Concerto in D minor* by Alessandro Marcello (arr. by J.S. Bach); *Fifteen Sinfonias (Three Part Inventions)* by J.S. Bach; various pieces by Richard Farnaby, William Byrd, and Henry Purcell; *Suite No. 7 in G minor* by Handel; and four sonatas by Albeniz, Scarlatti, and Soler. (Info, call: 793-7043).

This Friday evening at 8:30, the American Ballet Theatre will

this is why the film is so well received. Whatever the reason, you're sure to see some good fighting scenes.

The ASCIT movie is Friday night in Baxter Lecture Hall with two showings at 7:30pm and 9:30pm. Admission is 50cents for ASCIT members and \$1 for the everyone else.

For everyone interested in science fiction that liked the Cinematech show last week, the Nuart Theater will be presenting two foreign science fiction films on Feb 19.

Mike Kurilla

appear at the Pasadena Civic in a special program of ballet works. Saturday at 2:30 pm and 8:30 pm at the Dorothy Chandler Pavillion of the Music Center the ABT will perform *Swan Lake* in its entirety. (Info, call 972-7211).

Pianist Abbey Simon will present a concert of works by Beethoven, Chopin, Ravel, Mozart and Liszt in UCLA's Royce Hall on Saturday, February 4 at 8:30 pm. (Info, call 825-2953).

The California Chamber Symphony under the direction of founder Henri Temianka will appear this Sunday, February 5 at 8:00 pm in UCLA's Royce Hall. Marni Nixon will be Soprano soloist as they perform *Alleluia and Fugue, Op. 40b* by Alan Hovhaness; *Cantata No. 199, Mein Herze schwimmt im Blut* by J.S. Bach; *Less Illuminations* by Benjamin Britten; and the *Holberg Suite, Op. 40* by Edvard Grieg. (Info, call 825-2953).

The Los Angeles Philharmonic Orchestra, under the baton of Zubin Mehta, will give concerts this weekend on Friday at 8:30 and Sunday at 2:30 pm in the

Pavillion of the Music Center. The program will include Mozart's *German Dances*, Richard Strauss' *Oboe Concerto*, and Elgar's *Cello Concerto* and *In the South*. Soloists are Lynn Harrell, cello, and Barbara Winters, oboe. (Info, call 972-7211).

And to finish up the list here are some opportunities in live entertainment: *The Devil's Dilemma* by George Bernard Shaw and starring Rex Harrison and Margaret Hamilton is playing at the Ahmanson Theatre of the Music Center. (Info, call 972-7211).

The Last of the Marx Brothers Writers, playing at the Soli Theatre in Beverly Hills (2055 Canon Dr.; phone: 550-7077), a comedy starring Victor Buono as the down and out writer Jimmy Bryce with Sandy McCallum playing all five of the Marx Brothers.

BEATLEMANIA, the live multi-media musical celebration of the sixties is an incredible box-office hit at the Schubert Theatre in Century City. (Info call: 553-9000).

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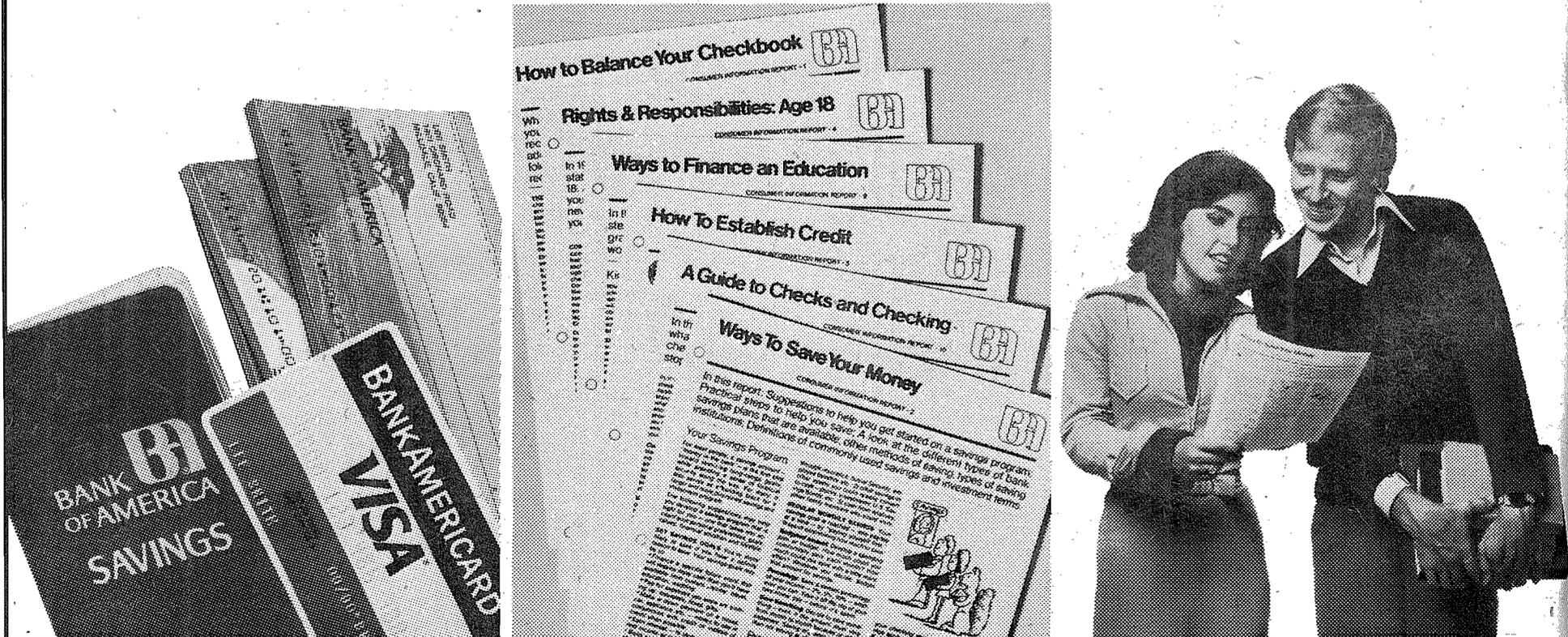
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Book Review

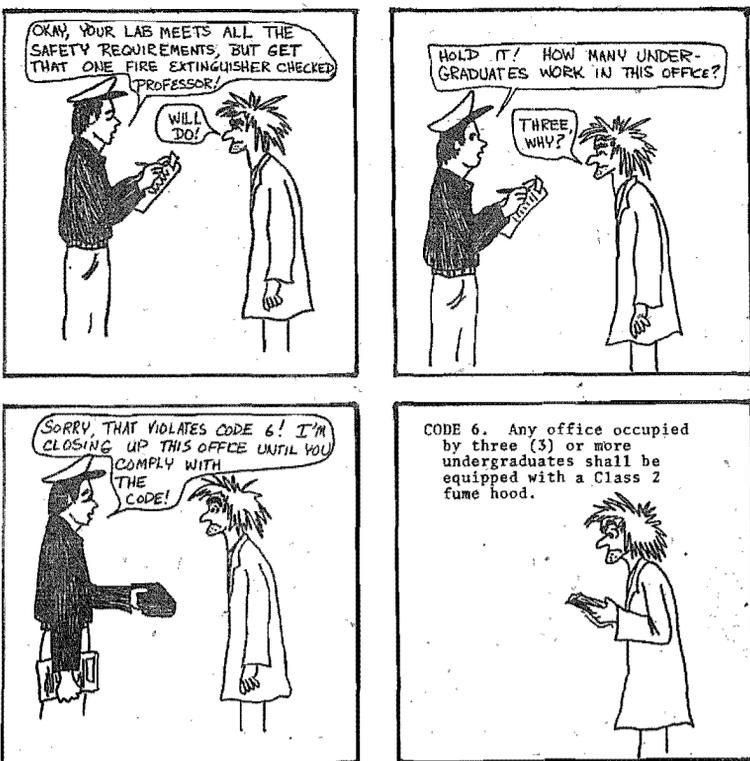
'Kill the Commies'

Once To Every Man, William Coffin Jr., Atheneum, 2.95.

Coffin's memoirs make gripping reading as long as one doesn't look for a method in the madness. He becomes so wrapped in the historical inevitability of his life that he tries to fit all his early life into a neat pattern; each event flowing naturally from the one before. The result is that he kicks off the book by explaining how his life in New York in 1924 was actually "a version of Tolstoy's world." The book slowly winds its way through a life which embraced the hot war and the cold war and then civil rights fighting with anti-war sentiments as they became fashionable.

Coffin's insights are superficial at best and the book completely ignores his motivations. Truman is outrageous for promptly discharging troops to Korea while the bombing of Cambodia is immoral a few pages further on with little justification for either. He was not adverse to violent solutions in his youth—"I wouldn't help noticing two Red Army sergeants looting the men's belongings. Beside myself with frustration, I jumped in and knocked them both out." This man a man who later went unscathed to jail with Ralph Bernathy. As he laments elsewhere after nearly being shot by a Russian translator, "It would have been a stupid way to die, but it was also a very confusing way to live." And, oh yes, when there isn't a war going on he's busy studying for the ministry. The overwhelming conclusion to be drawn from the whole book is that it's a lot easier to get through life in style if you start out rich.

-McQ



Update Yourself

The series kicked off a few weeks ago with Dr. Tom Tombrello and his talk about "The Cracks Between Astrophysics, Planetary Science, and Solid State Physics." Subsequent talks have been given by Dr. Rick Field on particle physics, Dr. Henry Huang on current research with immunology, and by Dr. Jesse Greenstein on degenerate matter in stars. Students are encouraged to ask questions, and as the ads say, BRING YOUR LUNCH. Update is a unique and interesting way to introduce yourself to new ideas in science.

The Caltech Y is sponsoring a series of noon discussions on current research at Caltech. UPDATE, as the series is called, is a series of discussions of current research on the frontiers of science. Each Wednesday at noon, a Caltech professor comes to give a short, informal talk about the research that he is involved in. The talks are given in the informal atmosphere of Clubroom One, which allows the profs to show slides, viewgraphs, or draw on blackboards. Generally, the professors give a short illustrated talk and then go into questions and answers.

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 Feb. 5 New Wave Rock
 Feb. 7-8 Century/Braven Bragg Band
 Feb. 9-11 EL CHICANO

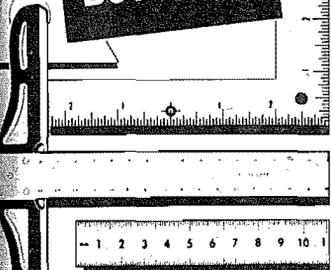
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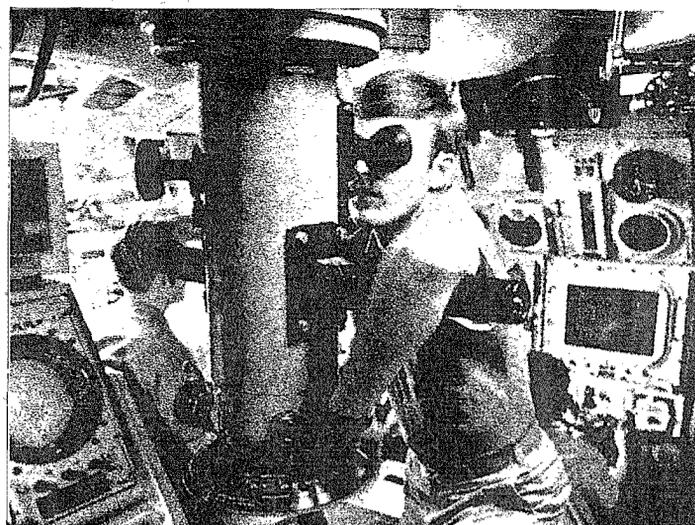
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The News That Didn't Fit

Update Yourself

Next Wednesday, February 8 at 12 noon, Dr. Norman Davidson, professor of chemistry, will give an UPDATE discussion presentation on "Research on Nucleic Acids - A Contemporary Scientific Revolution." The Caltech Y is sponsoring the informal series and encourages you to BRING YOUR LUNCH and rap with a professor.

Ski Taos This Spring

If you would like to ski at Taos Ski Valley, New Mexico, this spring break, with the Ski Club, please contact Mark Fischer, 793-3449 or Mike Meyer, 229 Lloyd 449-9294, by Monday, February 6, 1978

Play for Fiorello

The orchestra for *Fiorello* needs some more bodies, specifically a violin, viola, bass trombone, guitar, and a trumpet. If you are interested, contact Flora on X2157 or come to the rehearsal on Sunday, Feb 5 at 2:30pm in Beckman Basement.

More Fiorello

The Caltech Musical: *Fiorello* needs crew members. Call Flora X2157 Set building is this Saturday at 10am and Sunday at 11am. Meet in Chandler Parking Lot.

ATTN: BS & MS

Candidates in EE, CS, AMa, APH:

On Feb 28, 1978 representatives from Price Waterhouse & Co. will be on campus to interview students for a major new program they have developed for the initial training of EDP consultants. The program is designed to provide college graduates with a practical background in EDP concepts, computer programming, application systems design and computer-related audition. Upon completion of the program, trainees will be prepared to function as entry level EDP consultants.

If you wish to sign up for an interview or just would like more information, it is available in the Placement office, Room 8, Dabney.

Negotiations, Anyone?

A meeting of the Model United Nations will be held on Thursday, Feb. 9, at 7:30 pm, room 211, Baxter.

More Money

Attention: Students who are not on financial aid: Have you been denied financial aid but still feel that you need help? If you do, we have found out that the Jake Gimbel Scholarship Loan Fund has available to male applicants \$1000 interest-free ten-year loans. If you are interested or feel you need funds in order to attend Caltech next year, see Ursula Hyman-Kelly in the Financial Aid office before April 15.

Even More Money

If you are a junior with financial need (as determined by CSS) you could be eligible for a Beinecke Memorial Scholarship. If you win, you could receive what you need for next year plus tuition plus up to \$3000 for your first two years of graduate school. If you are interested contact Dr. Peter Fay by February 15.

Still More Money

The Society of the Plastics Industry announces a student desing competition. Scholarships will be given to the originators of the winning innovations in the 1977-78 Scholarship competition. Award are offered in competition to eligible students for new, useful applications of Expanded Polystyrene (E.P.S.). Sponsored by the plastics industry to encourage innovative thinking. Your idea may use any of the many qualities of EPS Foam and can be in any category or produc. Information brochures are available in the Financial Aid Office.

Guess What

More Money

The General Motors Corporation and the Caltech Placement Office invite all students interested in career opportunities with General Motors and/or information on the GM Scholarship for food, beer, and soft drinks on Sunday, Feb 12, 1978 from 5pm to 8pm at the Atheneum.

Please respond to the Placement Office no later than Wednesday, Feb 8, 1978 if you wish to attend.

Stud Jackets

We (the Ath Man) will be ordering letter jackets in a couple of weeks. Order if you would like one or if you ordered a jacket previously and have not received one. See the New ASCIT Ath Man in Page 142. There will be no fitting sessions. We have jackets you may try on if you do not know your size.

Naval Enthusiasts

There will be a naval matures game at 7:45 pm, Saturday, Feb. 4 in Dabney Lounge. There will also be other fantasy gaming Clubroom 1 of Winnett Center on Friday and Sunday night beginning at 7:30 pm.

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