Tech considered in the office next to felt that little.

The Continuing Drama of the IHC (7) Transplant

The notion of a Scholar's Program has been under discussion for many times over the past few years. There was much hope that such a program may soon be added to the list of extra-curricular activities from the drawing board. The Faculty Board, which recently approved a proposal form the Biology Curriculum Committee (under the chairmanship of Dr. Wood) which would establish a course of Independent Study in Biology for a trial period of two years.

In outline, the Program would function as follows: Applicants would submit a proposed individual study plan in the spring of their sophomore year. A consultant would advise the student on course work, independent study, lab-casework study, and other activities. Each student would be assigned a small committee of faculty members to advise him and monitor his progress during the following two years. During this time the student would be expected to form standard course requirements. He would assemble a portfolio, which would include a number of documents, and carry out, and evaluating his own work. A large number of the advisors would also include their feelings on the student's progress.

The program would allow each student committee as the basis for granting a degree and supplying recommendations. The plan is open to all Biology majors in good standing.

The technology student is not constrained by optional requirements, his advisor can, if he wishes, advise that he acquire familiarity with certain areas and pursue at least some subjects in depth. For this, "Individual" might be a more descriptive word than "Independent." Should someone decide to return (or be returned) to his old institution, the committee will determine the remaining requirements for graduation.

Because option credit would be given a "pass-fail" basis, the students' rights to revise their previous ruling that major courses would be guided. A vote on this should be forthcoming soon. His pass/fail grading will make the program official. No other faculty or Institute requirements (e.g. Humanities, Feynman Physics, etc.) are changed.

It is not known how many students will apply if the program is being offered, but the committee is a small group and it is expected that there will be a number of "audit-takers" as well as "Independent." Should someone decide to return (or be returned) to his old institution, the committee will determine the remaining requirements for graduation.

The "education of the governed" idea, first conceived with the Y -污水污染- visiting of Jesse Umrath, will possibly be consulted. Candidate Alioto and Reagan have both been invited to visit Caltech for several days. Reagan has accepted, and there is a reasonable good chance that he will also. As yet, however, he has not been invited from Alioto.

IHCFaces Building Deadline On Move

The continuing drama of the IHC (7) transplant.

Things seem to be happening at breakneck speed, as far as IHC is concerned, however, hard news still lags. First off, we wish to correct a recent misinformation which appeared last week. Apparently, IHC faces a deadline of the end of this week or thereafter for their decision. This is due to the necessity of getting their buildings ready.

Last Friday, the faculty held a full-day meeting to discuss plans with the IHC question. According to one ranking faculty member, "It just looks as if we're going to have it. The Trustees were similarly noncomittal after their meeting Monday.

Incidentally, the results of the poll of student opinion conducted on the issue was highly favorable to IHC. When asked if they wanted to affiliate (in some way) with IHC, the undergrads replied "yes" by a vote of 308 to 70.

Trustee Ate It

In Student Houses

Last Sunday, the Caltech Board of Trustees was served a number of the many facets of undergraduate life at Tech. First, they enjoyed a Glee Club concert in the Ahmanson. One Trustee commented that if the Glee Club had a good business manager, they could solve the Institute's financial problems by selling records.

Following the concert, the Trustees then enjoyed a dinner in the student houses. Most of the guests stayed quite late to converse with students about life in the Houses and about IHC.

Art for Hire

At Muster Smith's Office

Murray Williams is now running an art exchange program through Muster Smith's Office. If you have an artist whom you want to have paint more or, if you want to buy work from a specific artist, we will be glad to help you find the artist you want to see in that interesting little office next to Lloyd House.

Love, War, Politics All Fair Game In Y Programming

A full schedule of events, from sex to Bible, to the California gubernatorial race, will highlight Caltech YMCA dossiers from now to the end of third term.

"The educating of the governed" idea, first conceived with the Y -污水污染- visiting of Jesse Umrath, will possibly be consulted. Candidate Alioto and Reagan have both been invited to visit Caltech for several days. Reagan has accepted, and there is a reasonable good chance that he will also. As yet, however, he has not been invited from Alioto.

IHC faces a deadline of the end of this week or thereafter for their decision. This is due to the necessity of getting their buildings ready.

Last Friday, the faculty held a full-day meeting to discuss plans with the IHC question. According to one ranking faculty member, "It just looks as if we're going to have it. The Trustees were similarly noncomittal after their meeting Monday.

Incidentally, the results of the poll of student opinion conducted on the issue was highly favorable to IHC. When asked if they wanted to affiliate (in some way) with IHC, the undergrads replied "yes" by a vote of 308 to 70.

Trustee Ate It

In Student Houses

Last Sunday, the Caltech Board of Trustees was served a number of the many facets of undergraduate life at Tech. First, they enjoyed a Glee Club concert in the Ahmanson. One Trustee commented that if the Glee Club had a good business manager, they could solve the Institute's financial problems by selling records.

Following the concert, the Trustees then enjoyed a dinner in the student houses. Most of the guests stayed quite late to converse with students about life in the Houses and about IHC.

Art for Hire

At Muster Smith's Office

Murray Williams is now running an art exchange program through Muster Smith's Office. If you have an artist whom you want to have paint more or, if you want to buy work from a specific artist, we will be glad to help you find the artist you want to see in that interesting little office next to Lloyd House.

Think Twice - Bumper Advises

According to information released (unleashed!) on the Caltech. vase, the female gender, who currently number about forty, are highly deserving of the title "female".

A total of about 100 applicants of this very interesting type are expected by the end of the month.

Can you face the challenge of being a politician? Can you abide a political campaign, or does it merely exhaust you? Then you may want to think twice next time before you take on a political campaign.

SERNITY: Portrait Appointment Reminder

Be sure to call Kent Studios (799-7337) for picture appointment this week and next. All pictures should be taken by Friday.

Cont impeccable and attractive

EPC Poll Shows Students Favor End of Required PE

The results of the EPC poll on the physical education requirement taken at the end of first term were tabulated, and 44%, or 399 respondents, 144, or .39% felt that there should be a P.E. requirement at Caltech. Of these, 72%, or 61%, felt that there should not.

At the same time, the EPC voted to recommend to the faculty that the P.E. requirement be abolished. It is hoped that the recommendation will soon be drawn up and presented to the Athletic Council and the Faculty Council in Athletics and Physical Education.

Poll Results

The poll of primary importance to the committee in this decision was those of question 3; Do you believe that there should be a physical education requirement? The overwhelming vote of 59%.

Class Yes No Freshman 26 21 83 79% Sophomore 67 Junior 50 6% 30 44% 75% 27 21 46 99% 16 38 24 62% 100

Athletes Considered

Athletes considered were the number of Co-Eds, those who choose to do interhouse sports or regular unfil diversions (2c, b, and d). 80% of the freshmen responding are involved in one or another extracurricular programs, 69% of the sophomores, 77% of the seniors, and 74% of the dorms.

The committee recognizes a possible ambiguity in the phrase "other extracurricular activities," especially in light of some students' negative answers to question 2c and inclusion in their comments of the fact that they are involved in social activities, for example. The results were registered as marked.

Glee Club Did Tour With Double Pneumonia

by Paul Levin

On Friday night, it was learned that Mr. Oldflood, the director of Caltech's Glee Club, had been hospitalized with double pneumonitis. He is now at the Glendale Adventist Hospital.

Men Goes ON

Although its director was incapacitated, the Glee Club per­formed for some of the Institute Trustee last Sunday afternoon. For this event, the group was con­ducted by Mrs. Priscilla Remeta, the assistant director. The thirty-minute program included both sacred music and light material such as "Dem Brown Bones Gonna Rise Again" and "They're Lovin' It." The program was well attended.

The second time in the seven years that Mr. Oldflood had missed a concert. Considering that his principal position has not been that of Glee Club director, his devotion to his job is amazing. His presence may allow the group to endure a ten-day to two-week stay in the hospital and then several weeks of recuperation. After that he should again be able to take over the reins of the Glee Club, one of the best public relations groups connected with Caltech.

Caltech Bridge Tournament

This Friday night at 7:30 the Caltech Bridge Club, together with all of the Intercollege Bridge Tournament will be held in Cliburn Room one of the Burruss Union of all the schools. (three if more than eleven tables are needed) The tournament will be held. After that he should again be able to take over the reins of the Glee Club, one of the best public relations groups connected with Caltech.
Credit, No Credit System

by Etaino Schroedlu

Ever heard of non-credit courses? Confused? Upset? If so, you are normal. Frustration and confusion have always been the bywords of the current topic in the Caltech experience, for almost everyone is uncertain as to the variety of options. There has been a great deal of argument about some of the concepts represented by the ASCT and the diversity of the other systems.

Those of us who have been published if it were not for the ambitious and competent laborers of only two people. This year, both of these gentlemen are graduating. It is the function of the BOD to recruit the brightest minds and to ensure that they are comfortable in this task. If this officer is not chosen soon, there will be even less chance of finding another enthusiast.

The California Tech hopes that the BOD will, in further transactions, exhibit more of the responsibility with which it has been entrusted.

The Editors

Luxemburg On IHC Move

Continued From Page One

It is 7:00 P.M. and the 506th is still working, and then it's rolling out every other day to check it. Dr. Luxemburg said he would prefer for the students tested only once or twice a year, if testing is necessary at all.

He says that a student does not have time to learn anything when he is forced to compete with his fellow students every five weeks. If most of the present testing were removed, Dr. Luxemburg said, much of the pressure on the student would be removed, allowing him to concentrate on developing a better understanding of the material.

When asked his opinion of the Ma 1 and Ma 2 requirements, Dr. Luxemburg replied that he thinks that they were necessary in filling the minimum requirements of mathematical knowledge for any scientist and went on to point out that most students would not be removed, allowing him to concentrate on developing a better understanding of the material.

Requirements:

When asked his opinion of the Ma 1 and Ma 2 requirements, Dr. Luxemburg replied that he thinks that they were necessary in filling the minimum requirements of mathematical knowledge for any scientist and went on to point out that most students would not be removed, allowing him to concentrate on developing a better understanding of the material.

Dr. Luxemburg feels that the emphasis should be on creating a good understanding of the concepts rather than focusing on a background upon which to work—and then on practicing technique. The only way to develop proficiency, he says, is to practice, and many problems that may perhaps seem irrelevant are helpful in developing useful techniques. He realizes, however, that although the present courses are very good, there is always room for improvement, and he is open to any suggestions.

IHC Question

Since the topic is being discussed so many days, Dr. Luxemburg was asked about his thoughts on the IHC question, and he gave a very concise and rational answer. He considers the student house life to be very unusual, and perhaps even detrimental to the undergraduates living on campus. He says the student house is far as we are concerned, those of his days, 'unjust' to get involved in the housing problem of the day. They find it very hard to do so at Caltech.

Bringing in a girls' college of humanities would not solve the problem, he says. Caltech is unique, he claims, and to affiliate with IHC would be a mismatch. If the Institute cannot supply the missing element, he finds it hard to see a school like IHC, which is obviously of a lower level, to stir the students at Tech into action.

He favors, instead a plan to update the Humanities Division at Tech.

The opinions expressed herein are solely those of the writers under whose by-line they appear. Only the upper left hand portion of this page represents the editorial opinion of the California Tech staff. All other portions have been written by students outside of the Tech staff. Monday evening will be considered for publication on a FIRST COME, FIRST SERVED basis; the California Tech reserves the right to cut letters to a maximum of 300 words if the contents of the letter can be preserved. We disclaim all responsibility for errors in editing, printing, or timing of the letters received and/or printed. Letters received from off-campus as well as all stories will not be returned.
Progress Slow, Blue Balls

by Robert Geller

Harold Blue, chief Caltech negotiator at the deadlocked SALT II talks, told the Caltech Tech that there still was no sign of a breakthrough in the lengthy discussions. In an exclusive interview at Los Angeles International Airport, Mr. Blue explained some of the reasons for the disappointingly slow progress of the arduous talks.

In spite of many of the factors which seemed to be conducive to fruitful negotiations—the plush seaside hotel on the fashionable north shore of Jamaica, the exciting nightlife, the excellent hunting and fishing of the mountainous interior—the ground has not yet been broken for discussion of substantive issues. "Truthfully," declared Mr. Blue, "the talks are still stalemated over the question of who pays the costs."

To date, the only thing even vaguely resembling a move toward a joined-up merger which the delegates have resolved is the shape of the incoming baggage. The original Caltech proposal of a two-dimensional projection of the 4f orbitals was rejected immediately because of violent objections on the part of local Carpenter's Union. The last SALT II proposal, two parallel tables, was rejected by the Caltech delegates as "too unifying." Eventu­ally a compromise table arrangement, closely resembling two out-stretched fingers, was reached by the two parties.

In spite of all the amenities which would lead to casual observers to conclude that delegates were enjoying the ideal life, the swinging afterhours social life has created a few problems. "ICH had to run through fire fences before they finally found one who could handle positions," Mr. Blue reported. "The first four just couldn't hold it."

As Mr. Blue was leaving for the second round of negotiations there was one indication that the long impasse was about to be broken. "The landlord just tripled the rent," mr. Blue indignantly complained. "And if we don't get any more money soon we'll all have to move to Motel Six."
**COMPREHENSIVE SUMMARY: APPEAL PROCEDURES**

Warning—To the best of our knowledge, all the information in this column is accurate at the present time. However, judgments on the courts or changes in the regulations often occur. A complier or lawyer should be consulted before taking any major action that will affect your Selective Service status.

**More Lottery**

Some states, including California, have been inducing 19 year old registrants for several years under the old order of call which specified that registrants between the ages of 19 and 25 inclusive be called, oldest first. Considering this, it is highly probable that such states will run through all the lottery numbers this year and start inducting registrants who will have turned 19 after January 1, 1970, oldest first. Such students should now assume that they are safe because they have not yet received a number and, if trying to avoid registering, should avoid it as soon as it becomes apparent that their board will reach number 366 in the near future.

**Appeal Process**

No attempt will be made in this article to describe the extra appeal procedures and rights available to a registrant seeking deferment as a conscientious objector or for medical reasons. These topics were covered in the later articles.

As stated before, all communications with your local board should be in writing, a copy should be kept, and the letter should be so certified mail, return receipt requested. The following material is taken from a personal appearance which was handled in your office as a basket case—"Suggestion Re Apellate Procedures..." By Peter Max in the draft corner of Millikan library:

Roughly speaking, the basic appellate procedures in challenging a classification are the personal appearance before the local board, and, if this is not obtained, the appeal, where the file is sent to an appellate board but where there is no personal appearance can be waived and the appeal instituted right away, but rarely is this procedure recommended.

**Personal Appearance**

The appeal process starts when the registrant receives a notice of classification from his local board.

He then has 30 days in which to request a personal appearance before the local board. If he fails to do so, for some strange reason with no apparent cause, and fails to appeal to a State Appeal Board, his letter should state, "I request a personal appearance as per laws governing the Selective Service Law" (or State Law). The registrant is entitled to, and is entitled to, a personal appearance.

The registrant can request that he be granted an interview with the panel members at the local board in order to discuss his case before the personal appearance. Should the appeal agent prove sympathetic, he can be an invaluable ally through both the weight of his recommendation and his power to appeal to you for even after your 30 days have elapsed. However, since he severs as an advisor both to the registrant and the board, you should avoid giving any information that could hurt your case. You may, in writing, submit what regulations and statutes apply, what the board will consider necessary in order to be safe.

**Travel Time**

Where the local board is at some distance from the current residence of the registrant, he may request that it appear in his stead at the personal appearance. It will be impossible for the registrant to travel to a personal appearance. It is true that the registrant should add the line "I want to appeal my classification" to the letter requesting the personal appearance.

This will protect him in case he cannot appear for the personal appearance, i.e., he will not lose his right to the appeal, which, normally, happens without an appearance.

After receiving the date for the personal appearance and/or interview with the appeal agent, the registrant should write and request either that the interview with the appeal agent and the personal appearance be postponed until wherever he is residing or that they be postponed to a time more conducive to the trip. There is no specific wording of the appeal that will assure this transgression. The Board of the Regulations indicates that the registrant may transfer his case to another local board for classification whenever he deems it necessary in order to gain reasonable administration of the Selective Service Law. The registrant may wish to write the state director with this in mind. It may be possible to transfer the interview with the appeal agent as an alternative.

If the personal appearance and interview with the appeal agent cannot be transferred or postponed, the registrant should request that an interview be arranged with a local board in the area in which the registrant resides, provided by the local board, or that an interview be held in that area, which could submit an advisory opinion to his own draft board. If none of these alternatives are accepted, the registrant should request that someone else be allowed to appear in his stead at the personal appearance, e.g., his mother.

The registrant can often arrange such an interview on his own initiative with the board in the area where he resides, and so advise his personal appearance an opportunity that will accede to what he has accomplished.

**Transfer of Appeal**

Finally, if the board will accept notice of the appeal, neither the registrant cannot appear, he should note that in his original letter he had appealed his classification, and ask that his file be sent to the State Appeal Board. The registrant may wish that it be sent to the Board having jurisdiction over the area in which he is living or working. In either event, if the appeal can be transferred, the registrant should also have the right to transfer to an interview with an appeal agent for the purpose of taking an appeal. This is particularly significant in view of the fact that Sec. 1626.12 of the Regulations permits the personal appealing to attach a statement to his file, setting forth in what manner he believes the local board erred, directing attention to information in the file the local board failed to properly consider, setting out in full information offered to the local board but which was not included in his file, etc.

**STATE APPEAL**

Assuming that a personal appearance is made, the board at that time may advise the registrant that they are going to rule against him, and, thereupon, he may be asked whether or not he would like the board to forward his file to the appeal board. If the personal appearance, an appeal may be possible to a State Appeal Board. If none of these alternatives are accepted, the registrant should request that someone else be allowed to appear in his stead at the personal appearance, e.g., his mother.

Finally, if the board will accept notice of the appeal, neither the registrant cannot appear, he should note that in his original letter he had appealed his classification, and ask that his file be sent to the State Appeal Board. The registrant may wish that it be sent to the Board having jurisdiction over the area in which he is living or working. In either event, if the appeal can be transferred, the registrant should also have the right to transfer to an interview with an appeal agent for the purpose of taking an appeal. This is particularly significant in view of the fact that Sec. 1626.12 of the Regulations permits the personal appealing to attach a statement to his file, setting forth in what manner he believes the local board erred, directing attention to information in the file the local board failed to properly consider, setting out in full information offered to the local board but which was not included in his file, etc.

The registrant can often arrange such an interview on his own initiative with the board in the area where he resides, and so advise his personal appearance an opportunity that will accede to what he has accomplished.

The registrant can often arrange such an interview on his own initiative with the board in the area where he resides, and so advise his personal appearance an opportunity that will accede to what he has accomplished.

The registrant can often arrange such an interview on his own initiative with the board in the area where he resides, and so advise his personal appearance an opportunity that will accede to what he has accomplished.

**Appeal After Personal Appearance**

If none of these alternatives are accepted, the registrant should request that someone else be allowed to appear in his stead at the personal appearance, e.g., his mother.

Finally, if the board will accept notice of the appeal, neither the registrant cannot appear, he should note that in his original letter he had appealed his classification, and ask that his file be sent to the State Appeal Board. The registrant may wish that it be sent to the Board having jurisdiction over the area in which he is living or working. In either event, if the appeal can be transferred, the registrant should also have the right to transfer to an interview with an appeal agent for the purpose of taking an appeal. This is particularly significant in view of the fact that Sec. 1626.12 of the Regulations permits the personal appealing to attach a statement to his file, setting forth in what manner he believes the local board erred, directing attention to information in the file the local board failed to properly consider, setting out in full information offered to the local board but which was not included in his file, etc.

The registrant can often arrange such an interview on his own initiative with the board in the area where he resides, and so advise his personal appearance an opportunity that will accede to what he has accomplished.

The registrant can often arrange such an interview on his own initiative with the board in the area where he resides, and so advise his personal appearance an opportunity that will accede to what he has accomplished.

The registrant can often arrange such an interview on his own initiative with the board in the area where he resides, and so advise his personal appearance an opportunity that will accede to what he has accomplished.

The registrant can often arrange such an interview on his own initiative with the board in the area where he resides, and so advise his personal appearance an opportunity that will accede to what he has accomplished.

**Evidence in Appeal**

When the registrant makes a request for an appeal, his file is set apart as a separate board known as an appeal board. This board reviews the entire file and makes its own determination as to the proper classification. The registrant is notified immediately of this decision.

**Group Forums: Political Talk And Action**

By Larry Shippen

A new group has been organized for discussion and action on political questions. It has appeared in the Caltech campus. The Forum, a loosely organized assembly of members of the Caltech community, has held two meetings, on November 25 and December 1. Discussion focused on two main issues: Introduction of a course on science and political questions, and encouragement for the political and sociological questions introduced by the course. The Forum is open to everyone; meetings are advertised by those who called the initial meeting, and also by posting messages in the local area. The Forum is open to everyone; meetings are advertised by those who called the initial meeting, and also by posting messages in the local area.

**Late Evening Pick-Me-Ups At The Coffeehouse She's Open Again**

Every Nite

9:00—2:00

(AM—PM)

Coffee Still Set/Up

---

Continued from Page One

Sex and Other Coming Things

Crystal-ball-seeing into the future (third term), the Y has many programs already being planned.

**Sex Found At**

Finishing the sex program will be a four-part series concerning the future of sex. The possible changes in values and morals and the use of contraceptives are two possible topics. As usual, the Y would also like to organize a "Futurists in Science" program. This would create an intercampus-undergraduate dialogue pertaining to the future and what roles science may play in careers in science. Hopefully, the program will help to educate undergraduates under grades and majors which currently they would want to concentrate in and also which sciences hold relevance for them. Also, "Physics is dead" rumor be unfounded.

If anything interests you and you would like to know more, check with the Y or call ext. 2163.
SAGA OF BOY WANTS GIRL

by Robert Geller

Last December I was fortunate enough to win the Pacific Southwest Regional Knockout Championship. Held at Coronado, Calif., my good fortune was playing with an excellent partner, former Caltech graduate student Bob McDonnell, and two superb teammates, Matt Bartouk and Barney O'Malia. Today's hand is an example of how well my partners played, first upsetting the top-seeded Soloway team, then going on to win the event.

Today's hand is taken from the semifinal match between our team and the Horsham team. Bob McDonnell's exceptional defense on the hand defeated an ice-cold game contract played by John Strauch, one of San Diego's finest young players. The underlead of the queen and jack of clubs was the normal expert lead in such a situation, although it is not recommended by the text-books. Strauch won the club with his singleton ace and led a diamond to East's king. When East returned a trump this made it clear that declarer was not going to be establishing the diamonds for any tricks. Strauch took the ace of trumps and led a diamond to West's nine.

COOL HAND GELLER

by Nick Smith

As usual, California politics has taken a turn for the obscure. Mayor Joseph Alioto of San Francisco has announced that he will not seek the Democratic nomination for governor this year. He stated that he could not effectively be a mayor, run for governor, and sue the state for $100 a day in fees. Strauch won the club with his singleton ace and led a diamond to East's king. When East returned a trump this made it clear that declarer was not going to be establishing the diamonds for any tricks. Strauch took the ace of trumps and led a diamond to West's nine.

Another amusing announcement is made by Senator Murphy who, although he may not be running for the Democratic Senatorial nomination, will still be running for office. He is going to run for the Republican nomination for governor. Magnuson, an active member of the Republican party, Johnson in the Senate, Unruh in the Assembly, and if you can break the pathos of bad melodrama, the laughter flows and flows. Keep your eyes and ears open!
Songsters Chuck Mitchell, Jo Ellen On Ice This Week

There is another all music show at the Ice House, and it's a good one. The show runs through next Tuesday, so you'd better see it.

Opening the show is a singer by the name of Roy Harris. His style, manner and appearance are similar to Arlo Guthrie's, including the slack hat. He did some traditional songs, a couple of recent hits (such as "Helplessly Hoping") and some of his own. His guitar work is smooth and simple, and his voice easy and relaxed. If you'd like to see someone you won't forget, come to the Ice House. All the same, we didn't feel Harris's singing, but those are the only two singers worth mentioning are Janis Joplin and Yma Sumac. I like Jo Ellen's singing, and I think most of you will, too.

The star of the show is Chuck Mitchell, a singer sply described as a troubador. (No plug intended.) His voice is rich and deep, his guitar work flawless. Often, in between songs, or even during them, he would break into poetry, with excellent effect. He did have a rules of contemporary songs, some of them better than the original versions. Some include: "Judy, You're a Woman," "Just Like a Woman," and "Sisters of Mercy." John Stewart, Bob Dylan, and Leonard Cohen should all be jealous of the improvement since they wrote and performed the songs. Chuck Mitchell has excellent audience support, and is a true showman. He struck me as interesting that he finished one set with a song by Joni Mitchell. "Both Sides Now." I don't want to decided whose version is Harris is a true showman. He struck me as interesting that he finished one set with a song by Joni Mitchell. Mitchell's "Both Sides Now." I don't want to decide whose version is better. All three acts are extremely entertaining, but I think that Roy Harris is overshadowed by the other two acts. If you get the chance, go to the Ice House soon.

Art Museum Expands Hours

Due to continuing high public attendance, the Pasadena Art Museum will extend its gallery hours to 9 P.M., every Friday evening, acting director Thomas G. K. Ellis said. The museum is now able to provide free parking as well, Terrell said.

At 9 the new hours of the major cultural facility, located at Colorado and Orange Grove Boulevards, will be: Tuesdays and Fridays, 10 A.M. to 9 P.M.; Wednesdays and Thursdays and Saturdays, 10 A.M. to 5 P.M.; Sundays, Noon to 5 P.M.; closed Mondays.

"We're going to open as a part of the opening of the new museum in November has far exceeded our expectations," Dr. Luxemburg would like to see several changes. He has felt that the museum is able to do, if this really wants to.

Do Your Thing

He describes the people in the Humanities Division teach what they do. Among of having someone in the history of Esquire, the Institute should find people who are involved in the problems of Continental columns five.

Luxemburg

Tech and make it related to the issues of today's arm control, Vietnam, racial strife, etc. He feels that the humanities courses should be more like "evocative noise." There seems to be some structure, but he does not. Instead of having someone by things like "Runner's Blues" to be happy "Morning Song." There are people who write you out there who won't like Jo Ellen's singing, but those are the two people who believe that the only two female singers worth mentioning are Janis Joplin and Janis Joplin.

A & H Discount Records

Largest Selections of LPs

Pasadena

1766 E. Colorado Blvd.
Pasadena

976-7436

DEPARTURE by Pat Boone: Tetra-
grammaton, l-118

Unfortunately, this was not enough of a departure for the never-ending Pat Boone. Listening to it, one gets the impression that he has finally broken into a chorus of "Big John." This album consists of a number of excellent written songs, by some of the best writers of modern folk music. Among them are songs by Fred Neil, Bill Bissell, Tom Buckley, John Stewart, and John D. Loudermilk. Pat Boone's manner and appearance are similar to any of these songs, however, and even does a freaky ending on the last song on the album, one called "Standard." He's never so know something like this would appeal to the listener. As far as I can tell, Menius in these two pieces is trying to create an intensely personal vision of the title to the Resurrection of the Dead and of the City of God. He attempts to incorporate space and color into his pieces, so that they are totally unemotional in effect, but are rather more like "evocative noise." There seems to be some structure, but Menius feels, I think, that his statements should not be hampered by the structure, so that it tends to be something, hard to find. Since he had the composer's implied blessing, Menius's interpretation of these works is probably to be validated.

Personal

The works are, in fact, in creating something of a departure for the unprecedented. Pat Boone says he tried to incorporate into his music. Upon repeated listening, the works appear to be more and more formatted and seem to make more "sense," whatever that means. But to be able to accept this sort of music as pleasurable or meaningful, artistic expression requires dedication and concentration on the part of the listener, and one should keep this in mind when considering whether to purchase the disc.
Ticket Information

The Golden Bear, down at 306 Ocean Blvd. in Huntington Beach, is open Jan. 16th until the 18th of January. On the 29th, Tim Morgan rides again at the sign of the toad and note, 24 N. Mentor here in Pasadena.

Shelley's Mamie Hole is the place to look for you. They use the Annercom thru Jan. 18, and Willie Bobo starts jazzing on the 20th.

The Pasadena Civic, also featuring Laura Nyro in concert on January 17th, at 8:30 P.M. Tickets are at P.R.O. for all the above concerts are available at Mutual agencies and random other places often referred to as usual.

David Miller

Truckin’ My Blues Away

Attrigly, I.e limitations of the painted (or VarType'd) word! I am getting tired of hearing music which I liked in the original being redone by big bands and big-name stars. But if I complain about it in print, how can I explain in words to someone who doesn't read it what annoys me about the way Jose Feliciano extinguished "Light My Fire"? Lots of people don't even like this kind of music; they are even aggressively uninterested in hearing it. Besides, the practice is nothing new. Someone once told me that "Stardust" had been recorded over 700 times, in every conceivable arrangement, and some inconceivable to the normal mind (not to mention unrecognizable).

There will be special student discounts available for tickets to the three premier performances of the Thornton Wilder's "Our Town," opening Feb. 12 at the Huntington Hartford Theatre. Henry Fonda will head the all-star Piedmont Playhouse cast in the Pulitzer Prize-winning classic being presented at the Hartford through March 1 only. Student body cards must be presented at the box office in order to receive discounts on the pre-sale tickets, which are set for 2:30 and 8:30 p.m. Wednesday, Feb. 11, and at 2 p.m. on Feb. 12.

Amplex

Campus Interviews:

WEDNESDAY, JANUARY 21

If an interview at this time is inconvenient, please contact Mr. Lloyd Lindquist, Employment Office, 9555 Bay Rd., Redwood City, Calif., 84063. An Equal Opportunity Employer.
in the northern region of Malawi—a tiny, southern African republic—there is a saying:

"Chem miqalikul pose.

Roughly translated it means: the center of the Universe is wherever you happen to be.

Said a proverb might well have come from any of the 57 countries in Africa, Asia, Latin America and the Pacific in which Peace Corps Volunteers are working. There, and in villages throughout the underdeveloped world, a man's Universe begins with what he feels and ends at the limits of his senses.

The events of nature—rhythm and occurrence—are felt to be related somehow to a man's life—his love and his hate, his moral conduct.

To speak of vectors or molecules is to speak of religious doctrine.

To touch a coleoptile is to risk sickness.

To change one's methods of subsistence cultivation is to invite disaster.

A world view such as this has a certain psychic and social validity which the western world is only beginning to comprehend. But it is also peculiarly limiting. That so much of the world should continue to live in poverty, hunger and sickness when so much could be done is a parallel fact which Americans today find difficult to accept.

Science and mathematics are powerful tools in great demand in hungry nations throughout the world.

Science and mathematics graduates are urgently needed to help devise compelling methods of control—some connected with a sensitivity and patience for human parameters of technological progress, too often neglected.

And all of this must be done with a sensitivity and patience sufficient to inspire in those we serve a confidence in their own ability to improve their own conditions.

The Peace Corps has been sending such people abroad for nearly nine years.

In June, 1969, there were roughly 10,000 Peace Corps Volunteers abroad, working in 60 different countries. Of these, 197 were trained biologists, 96 were chemists, 31 were electrical engineers, 304 were mathematicians, 65 were physicists, 2 were statisticians and 1 was an entomologist.

Hundreds more, listed as teachers in Agency statistical summaries, have come from the science and mathematics backgrounds in undergraduate colleges and universities.

The total number of recruits with mathematics, science, and electrical engineering backgrounds needed for programs beginning this summer will exceed 1,500. Some of the programs in which they are being asked to serve are listed below:

Peace Corps Volunteers are not invited abroad because anyone thinks they know all of the answers. They are invited more for the attitude which they bring to their work, a belief that lasting development and ultimately peace can best be achieved by small communities of men working together to solve common problems.

Volunteers are invited, as one Ghana journalist put it recently, to "help us go the way we want to go." This means a Volunteer must be ready to listen as well as to talk.

Each recruit receives intensive training in the language and culture of the country to which he is assigned. He also receives additional training in his particular skill. Untrained teachers assigned to education projects practice teach for at least three months before beginning work at their permanent posts.

Training is an essential and integral part of Peace Corps service.

It marks the beginning of a period of learning, inquiry and self-examination which will continue throughout a Volunteer's assignment.

A Volunteer serves abroad two years. He accumulates leave within his region of assignment at the rate of two days per month of satisfactory service. He receives a subsistence allowance sufficient to cover the cost of adequate housing, transportation, clothing and incidentals in his country. He also receives full and free medical care while in the Peace Corps.

For each month of satisfactory service—including training—a Volunteer accumulates a readjustment allowance of $75 which is set aside for his return to the United States. This year's $7 Peace Corps will ask that the allowance be raised to $100 per month.

The basic requirements of Peace Corps service are:

...U.S. citizenship; ...over 18 years of age; ...preferably no dependents under 18 years of age; ...a strong interest in helping others.

Why do it?

At the very least, service abroad as a Peace Corps Volunteer gives you an unprecedented opportunity to step outside of your own country and live another culture for two years. It offers you a chance to travel, to learn another language, to live in poverty, hunger and sickness, and to examine yourself in ways which may never be open to you again.

For a science or math major, the value of Peace Corps service now—before settling into a life-long career—in potentially great. It offers you an opportunity to discover the human parameters of technological progress, too often overlooked in our rush search for more knowledge and greater control over nature.

The late Max Born spoke often in his latter years of the need for a humanized science.

"Science in our age," he wrote in his autobiography, "has an economic and political function, and however remote one's own work is from technical application it is a link in the chain of actions and decisions which determine the fate of the human race."
by Im Moskatel

The newest chapter of the Caltech Alumni Association is in Sierra Leone on the west coast of Africa. It has two members, both recent graduates and both volunteers in the Peace Corps.

Frank Fujimoto graduated from Caltech in 1967. Larry Shirley graduated last year with a combined major in mathematics and history he was one of the top of his class. Within a week after graduating last June, Shirley found himself in Freetown, Sierra Leone. For the next three months, Larry had to use all the ability to study he had learned at Tech to master the geography courses and to learn the national language Krio. He taught in Freetown over the summer in one of the local secondary schools.

Practical Data
Along with the "intellectual" training Larry received were some good hard facts. Meu, Arizona, his home town, is pretty different from West Africa. For an American tourist in a big city, it's pretty easy "not to drink the water." Larry had learned how to prepare the water and foods for drinking. He had to learn what illnesses he could expect and how to avoid them. He had to learn how to cure whatever he might encounter.

In all, Larry's training in Freetown was over. He then took a boat to Sherbro, an island of about 40 square miles 20 miles off the coast. Here he had to get accustomed to the people of Borh and learn their dialect, mende, which was somewhat different from Krio.

Larry has been in Sierra Leone for eight months now and he is teaching math for eighth and twelfth graders. Larry teaches math in English, but when he has to bargain with the townspeople for groceries, Krio and Mende come in handy.

Vacation Time
It is now the mid-year break. Larry and his roommate, another Peace Corps volunteers are taking advantage of the vacation to explore the island on a hiking expedition. They are stopping to talk with the villagers and to stay in the hamlets that dot the island.

Larry's father says that Larry "is maintaining the same enthusiastic and ambitious spirit that he had when he left for Sierra Leone. He is happy and finds his new environment most exciting."

After the midyear break, Larry plans to start a course in basic math for adults. He is bringing the idea of an evening school to Sierra Leone. Summers won't be dull either. Larry will be working on a summer project and then off on a month's vacation traveling.

Memorex is a young, growing company which is widely diversified in the sophisticated computer industry. With our growth and diversification we are able to offer you a creative, stimulating environment with an unsurpassed ground floor opportunity.

We have openings on the San Francisco Peninsula for Memorex Corporates, our Supplies Division and for the newly formed Memorex Equipment Group.

If you're looking for a place where your talents will be appreciated and put to work, then contact your placement office today.

Campus Interviews
Wed., February 18
If campus interview is inconvenient at this time please write our College Recruiting Director at 1110 Shulman Avenue, Santa Clara, California 95052. An Equal Opportunity Employer.

Sick of Tech? Sick of snaking? Sick because of B&G food? Give yourself a break! Get a pizza transfusion at

ROMA GARDEN
BEER & WINE
1120 E. Green
449-1948
OPEN 5 TO 1 DAILY

Thursday, January 15, 1970

THE CALIFORNIA TECH
Page Nine

Life In Africa Exciting
Peace Corps Teachers Find

The City of Banth on the Island of Sherbo, Sierra Leone.

photo by Shirley

Draft Questions Answered
Q. Explain the drawing and how the random sequence was established. A. December 1, 1969 there was a drawing in Washington of 366 closed capsules. In each capsule was a slip of paper on which was written a month and a year for the day, for example, May 1, June 1, etc.

The order that these capsules were drawn will determine the relative position in the national random sequence of registrants born on all the dates of the year, including February 29. If May 21 was drawn first, all men born on May 21 would be No. 1 in the national random sequence. If February 29 was drawn last, all men with that birthday anniversary would be No. 366 in the national random sequence.

Q. How will this sequence be used by local boards? A. Each local board will assign numbers to its registrants who are I-A or I-A-D in accord with the national sequence. Some local boards may not have, at any one time, men with birthdays on every day. In such a case the local board would go to the next number. For instance, it might call numbers 1 through 5, then 7 and 8 because it had no men whose birthdays were on the day drawn sixth in the drawing.

Q. Why is there a drawing of the alphabet? A. This drawing randomizes the alphabet so that in instances where a local board has two or more men with the same birthday — and is required to order one but not all of them for a call — it has a way to determine which comes first, second, etc., by applying the random alphabet to the names.

Q. Does every body get a number out of the first lottery? A. No — the first drawing will determine the random sequence number only for those men who were born since January 1, 1970. Some men in the group may get a number from the first drawing may not be classified I-A until next year or later. In such cases, a young man's number will determined his order in the national sequence in use that year. For example, a young man's birthday is drawn No. 80, and he is now deferred for college, but loses his college deferment in June 1971, he will now be No. 80 in the national random sequence in use that year. Q. How do new 19-year-olds get a number? A. In 1971, the day of the year will be held. This drawing will determine the national random sequence to be used in 1971. The only registrants who would look to that drawing to determine where they stand in the national random sequence are those who turn 19 during 1970. Q. How do you use more than one drawing? A. The date of May 1 may be drawn No. 1 in the first lottery. This would be the number of a man who was in college during 1970, but graduated and lost his deferment in June 1971.

The date of September 11 may be drawn No. 80 in the next lottery. A man born on September 11 who was in college during 1971 would be No. 80 in the random order. So would the first man whose birthday of May 1 was drawn No. 80 a year earlier. If both men were in the same local board they would be called on the same call or if one, but not both were required, the random alphabet would determine which one went first. Q. Can a man whose birthday is drawn early in the drawing still join the reserve? A. Yes. Just as now, he can join a reserve any time before the induction order is issued. Q. What about volunteering for active duty? A. The policy is to authorize enlistment for active duty at any time up to the day of induction.
The Caltech varsity wrestling team lost a close match to Biola in the first league action of the season in the Beaver gym Saturday. The score was 25 to 19, in favor of Biola.

Alan Beagle and Bruce Johnson won their matches by falls to account for ten of Caltech’s points. Beagle took four minutes to pin his opponent in the 190 pound weight class. Johnson pinned his heavy-weight adversary in just 1:20.

Other victors for Caltech were Randy Lewis at 142, Gary Zieve at 150, and Gary Wood at 155. Lewis won by an 8-0 decision, Zieve had a 5 -1 victory, and Wood won by a 7 – 4 tally.

Caltech hosts Puadena College and UC Riverside this Saturday in a tri-meet beginning at 1:00 p.m.

This competition also saw the Caltech epee team scoring a victory over the LAVC squad, winning 8 of 9 bouts. Richard Piccard and David Robinson were undefeated, and Richard Pelletier won two of his three bouts. With transfer students Bondman and Rhodes soon to be eligible for competition, the epee team hopes to gain the depth that will be needed for the rest of the season.

Fencers Foil LAVC
by Dick Piccard and Norm Pendegraft
The Caltech foil team, led by five Ruddock House members, posted a convincing 6 – 3 victory over Los Angeles Valley College last Saturday at Tech. After jumping off to a two bouts to zero lead on a 5 – 1 win by D. A. Smith and a 15 - 0 win by Norm Pendegraft the going got a little tougher with the match not being decided until the seventh bout and Smith’s decision to tangle, come-from-behind win. When the smoke cleared the score showed Smith with 3 wins and no losses, Pendegraft with 2 wins and no losses, Ming-Wah Cheung with one win, Jim Stone 0 – 2 and Blit Chia 0 – 1.

Flem's Nip Ruds In Football
by Richard L. Short
The house of Fleming emerged victorious over the house of Ruddock by the narrow margin of 9 – 7 in a Decohobus football challenge played on a wet Super- Sunday.

Rain fell through most of the first half of the game, but it did not cut the enthusiasm of the two houses.

In the second quarter Fleming opened the scoring in the second quarter when quarterback Joe Templeton fired a touch-down pass to end Richard Burton. Fleming had a 6 – 0 lead at the end of the first half, since they made every point.

In the third quarter the Fleming House defense caught Ruddock’s quarterback, Keith Harris just inside the end zone for a two-point safety. This proved to be the big difference in the game.

Ruddock scored a TD in the final quarter on a long pass from Harris to Bill Butterworth. Stu Sando went over for the extra point to make the score eight to seven.

Swimmers Edge UCSD, 65-46
by Richard Short
The Caltech varsity swimming team took only eight swimmers and one diver to the meet at the University of California San Diego Friday because UCSD had called and intimated that they would have a small squad and no divers for the meet. As a result, says coach Walter Reck, the teams went down unprepared.

What should have been as easy win for Tech turned out to be a team that has only competed in swimming for two years, thus became a very close match. The Tech scored the victors by a score of 65 to 46, of course, credit to Caltech because San Diego had no 3 meter divers for the meet. As a result, says coach Walter Reck, the teams went down unprepared.

Swimming Systematic
The scoring for swimming involves several factors to the winning team in a relay, while in individual events 3, 5 and 1 point are given in second and third place, respectively.

The Tech 400 meter relay team of Devery Tyson, Dick Piccard, Bob Rude and Jeff Rude edged the UCSD quartet with a time 4:09.5 as compared to San Diego’s 4:13.5.

Steve Sheffield won the 1000 yard freestyle event, Tim Hight of CIT took first place with a time of 2:02.2, beating the SM man by just 3.2 seconds.

Low Fielder finished third in the 200 yard backstroke event, ahead of tramute Larry Andrews. In the 200 yard individual medley, Tyson and Hall placed second and third, respectively, and Caltech led 23 – 20 at that point.

Larry Andrews, the only Tech diver to compete in the one meter dive, got 111.2 points while the winner had 129.75 points.

Swatch’s Ghoth
Caltech’s Ghoth won the 100 yard freestyle race in 53.8 seconds, just one second ahead of the second-place finisher. Jeff Rude finished fourth in 57.55 seconds.

In the 200 yard backstroke event Fielder finished third behind two San Diego swimmers. Fielder was just 8.2 seconds behind the winning time of 2:34.0.

Sheffield won the 500 yard freestyle with a time of 5:52, giving Caltech a 45 – 42 lead with two events left.

Tyson and Hall then placed first and fourth, respectively, to make the score 50 – 46, C.I.T. Tyson’s time was 2:34.2.

Last, but Not Least
In the last event, the 400 yard freestyle relay, the Beaver foursome of Jack Rudy, Royde, Coates, and Sando took an 18 point lead over the LAVC squad.

Continued on Page Eleven
He overspecialized.

There was a time when George really had the old world by the tail. Fifteen years an expert on vacuum tubes. He knew his business, and knew it well. He was sure that he was going places. Then came the transistor. A blood in need of more members, especially in the freestyle and backstroke categories. Coach Reck stated that 16 to 20 swimmers are needed to have an effective squad. Last year’s team, that placed third in the league, was much bigger than this year’s squad. Many outstanding swimmers graduated and many frosh and upperclassmen decided not to go out for swimming this year to contribute to the lack of manpower.

Continued from Page Ten

Hight snipped UCSD by less than a second, while 3:39.3. The score was 57 to 46. The swimming team is very much a professional kind of atmosphere. Our projects rarely go on five years or more. And they’re small enough so you can be both specialist and generalist. Whether it’s a new electro-optical system or an advanced transceiver, a high-speed, digital data-handling system, or a new concept in electronic packaging, you broaden your basic knowledge on a variety of exciting projects. All this takes place in the most professional kind of atmosphere, where you’re allowed much leeway in creative thought.

Young Presidents Planning Program

On Their Companies

The Faculty Committee for Relations with Industry will sponsor a program by the Young President’s Organization at 7:30 PM on January 20 in Winnett Clubroom 1. The YPO is an educational organization with a membership of several thousand successful executives who have become presidents of sizable companies (the typical company has 200 employees and grosses $5 million annually) before the age of 40.

After a short presentation concerning the backgrounds of the panel members, the meeting will be opened for questions and general discussion. Topics will include the opportunities in industry for recent graduates, company involvement in social problems, and the development of successful enterprises. For the opportunity to touch bases in various of disciplines. Our projects rarely go on five years or more.
STAFF MEMBERS URGENTLY WANTED!!!

THE CALIFORNIA TECH staff needs YOU! Putting out the TECH gets to be a lot of work — too much for just one Editor-Reporter-TYPIST-Playout Troll-Paste-Up Troll.

TYPISTS are needed Monday and Tuesday evenings for about two or three hours each evening. Two typists are needed each night, so the more, the merrier. If you can type, please help. My fingers are getting very sore.

REPORTERS to cover all of the news breaking around the Institute are in great demand and short supply. After getting this exclusive story out of Dr. Bonner, I still had to write the rest of the paper. HELP!!! If you are interested in ASCIT, the YMCA, the Research Center, Electric Car Race, or any other regular or random activity at Tech, write about it. You will find that our Editors are perfectly willing to accept any and all such copy.

Speaking of EDITORS, the opportunities for advancement on the TECH staff are amazingly rapid. → Records, movies, and plays need reviewing, which translates to FREE TICKETS AND RECORDS for dedicated staffers. Also, you can enroll in En15, which carries three units of "A" guaranteed to those who write an article a week!

Last, but far from least, we need PASTE-UP TROLLS. These funny creatures turn out the beautifully-proportioned TECHS which you all love to read. Drafting experience is desired, but not necessary.

Come and help me! If you are interested, see Paul Levin (20 Dabney), Phil Neches (3 Fleming), or Ed Schroeder (Off-campus), who can usually be found helping me in the TECH office in Winnett Center.