Faculty Board To Consider
Myriad HSS Proposals

by Gavin Claypool

Two proposals are awaiting action by the Faculty Board which could alter the present format of the 108-unit HSS requirement.

The first proposal, drawn up by the Division of Humanities and Social Sciences, reduces the number of units of required "H" courses from 54 to 27, and eliminates the required 27 units of English. The balance (81 units) would be selected from almost all of the courses offered by the Division, with about twenty exceptions. Ec 100 Levels

Under the revised requirements, the following courses would lose HSS credit: Ec 100, Ec 110, Ec 121, Ec 122, Ec 130, Ec 131, Ec 132, En 151, L 131, SS 131, SS 141, SS 142. The language courses L 102, L 130, and L 152 (Elementary French, German, and Russian, respectively), would no longer receive retroactive credit for completing a second year in each language.

Law Professor

Levine Comes to Tech

A distinguished professor of law, Michael R. Levine, has been appointed Henry R. Luce Professor of Law and Social Change in the Technological Society. President Harold Brown has announced.

Levine is on leave from the USC Law School as a visiting professor of law at Duke University. He is concerned with the application of law to economic and technology and will participate at Caltech in studies on the impact of science on society and technology.

"Mr. Levine is an outstanding man in this new field of the social sciences in which Caltech is expanding," Dr. Brown said. "We are grateful to the Henry Luce Foundation for making the appointment possible and we share its concern over introducing an understanding of this context of American scientific and technical education."

Levine, who sees law as a purposeful, organizing force in the whole spectrum of human endeavors, is interested in applying abstract models to social problems. At USC he designed and managed its law center's part of the Sea Grant program.

Upon graduating from Yale Law School, he worked as an attorney for the Civil Aeronautics Board. He became special assistant to the task force on Economic Growth and Opportunity for the U.S. Chamber of Commerce. Subsequently he took a position as law and economics fellow at the University of Chicago Law School. He decided to go into teaching and joined the faculty of the USC Law Center.

Chemical Laws

Levine obtained his bachelor's degree at Reed College in Portland, Oregon. His early educational interests were in chemistry and physics.

The new Caltech faculty appointment, effective next September, is made possible by a grant of $225,000 from the Henry Luce Foundation, Inc., of New York. The Foundation was established in 1963 by the late Henry R. Luce, co-founder and editor-in-chief of Time, Inc. The grant covers a five-year period.

The chairman of the Humanities and Social Sciences Division, Dr. R. A. Huttenback, explained that the change was to ease the constraints imposed on students in choosing their 108 units. The courses not receiving HSS credit were classed as such because of their economical and/or vocational bent.

It was the opinion of the Division although not an unanimous one—that English was not unique with respect to other humanities courses, and so the proposal included elimination of the 27-unit English requirement.

On the Other Hand

The faculty Curriculum Committee has recommended that the 108-unit requirement be broken down differently, with 54 units coming from courses labeled English, History, Psychology, Music, or Art, and the other 54 from any of the courses offered by the Division. Credits toward the latter number would be restricted in the area of business economics and management to 27 units.

The committee felt that the field was divided between the sciences, the humanities, and the arts, and removed enough from science and engineering to give students a reasonable breadth in their undergraduate education. Since there is a wider variety of courses included in those five areas than included in those for the Division's 27 units, the higher unit requirement was considered justifiable.

Unlike the Division's proposal, which excludes most economic and language classes, the committee's recommendation excludes only reading courses. Even such reading courses could be granted HSS credit if both the instructor of the course and the Division Chairman agree that it meets their criteria for such credit.

Dr. Huttenback feels that he could accept the Curriculum Committee's proposal. This would satisfy the needs of the Division and the students, and also keep the faculty committees happy.
The Ideas of March

The Ideas of March have passed, and evil times are upon us. The food is terrible. The middle east seems on the verge of open war. The war in Vietnam continues without end or hope. Millions of people all over the world live on the verge of starvation. And most terrible of all, third term has begun.

A, woe, ill begotten earth, for dark days are upon us.

The landlord... Undermines Science?

I was shocked to see two Institute students stop in the middle of the campus to read the sonnet published in the last issue of the Tech and to engage in a heated discussion of poetic technique, for such conduct brings to sharp attention a dreadful state of affairs. Too many students are spending their time on such baseless and empty things at the expense of more serious subjects; and their selfish and short-sighted course can end in nothing but disaster for themselves and disgrace for the Institute.

Few persons are entirely aware of what is actually going on, and I feel it is my duty to warn them of the insidious forces which are undermining the school. For instance, the works of Edna St. Vincent Millay, that disgrace to American womanhood, are freely read by many, and a large number of students are more familiar with the sonnet form of Donne than they are with the laws of Newton. There are students in this school who have even read every volume of that vile piece of French decadence, A La Recherche de Temps Perdu! Literature is not their only vice, for they dissipate their time and energy discussing Ravel, Strausinsky, Matisse and Picasso.

Fortunately, we can easily detect the cause of this sad condition and set about to remedy it. I believe the offenders are not entirely culpable, but that they are victims in a part of a misguided campaign which the Humanities department has been conducting and is part of a far more sinister force. This evil influence is shown by the great interest in Russian novels dispersed through the campus, and vice versa. This is not a part of a deep-laid Bolshevik plot to discredit American science and spread the Russian propaganda. We must act quickly to stamp it out!

If the California Tech will Continued on Page Seven

Add Spanish

In the recent controversy over the language curriculum at Caltech the issue has been whether or not to cut back on the department. In the modern world where contact between different language groups is forever increasing, the Humanities Division is ill-advised to do anything but expand the language offerings. Critical importance should be the addition of a Spanish course to the language offerings.

I have inquired into the possibility of a Spanish course at Tech and have been told "How ridiculous; no technical literature of any value is published in Spanish and its literature should be initiated.

First of all, there is a large and ever-increasing number of Spanish speaking people in the United States and particularly in California. If we wish to better understand and communicate with our Spanish-speaking citizens there is no better way than learning the language and culture.

Second, there is the fact that Spanish is the second most widely spoken language in the Western world. There are three compelling reasons why a Spanish course to the language offerings. One concern I have heard voiced about having more under­graduates teaching loads. It seems abundantly clear that financial constraints on the Insti­tute will be at least, keep the number of professors at Caltech from increasing very much in the next several years. If Caltech wishes to move in the direction of more flexible curricula, more

by Etaoin Schroedlu

Once again, discussions for expanding the size of the under­graduate student body at Caltech are in the wind. The most recent state of proposals began with President Harold Brown's com­ment in a recent Engineering and Science interview that he felt a small increase in the undergraduate student body, to about a thou­sand total students, would be a good thing. Discussion has con­tinued, with student Phil Neches endorsing that view in his final meeting of the Ad Hoc Commit­tee at the end of last term.

I am myself not convinced that the proposed increase is a good thing (or a bad one). I do feel that there are some points which call for public considera­tion before such a policy is to be adopted.

Join Caltech

Tech is, of course, noted for its rigorous admissions standards. Would these standards be wa­tered down by choosing a class designed to produce, say, 275 or 300 entering frosh instead of the 300 entering frosh as admitted (for 'down the list' was admitted (for of the applicants before him, but distinguishing from the rest of his

Graduate students as the future of the Institute.

It

and do not necessarily reflect

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NEXT WEEK:

THE LANDLORD

THE CALIFORNIA TECH

Thursday, March 29, 1973

Volume LXXIV Number 22

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Graduate students as the future of the Institute.

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and do not necessarily reflect
IF YOU HAVE AN UNUSUAL TALENT, YOU HAVE WHAT IT TAKES TO BE A BUDWEISER WORLD CHAMPION!

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TO GET YOUR BUDWEISER WORLD CHAMPIONSHIP PATCH (EVEN IF YOU DON'T SET A RECORD), JUST WRITE YOUR NAME, ADDRESS AND WHAT YOU DID ON A POSTCARD.

Beckman and Ramo To Cut Programs

by Etaoin Schrodlin

Things aren't as good as they might be, but they are better than they looked last December and January.

That's the opinion of Jerry Willis, the Manager of Caltech's Public Events Office, the people who bring you all those events in Beckman and Ramo Auditoria.

Last December 6, Dr. Robert Oliver, Chairman of the Caltech Faculty committee on Programs, circulated a memo citing the overworked Public Events staff and requesting a budget increase to allow additional people to be hired. The alternative, Dr. Oliver claimed, was a substantial reduction in the number of events that could be put on in Beckman and Ramo for next fiscal year.

B—man Peters Out?

This proposal was not favorably received by the Caltech Powers-That-Be, but any rumors of Beckman's imminent demise are considerably overexaggerated. The budget for public events will be about the same this coming year as it has been this year. Jerry Willis anticipates some cutback in the number of events that will be scheduled. "We've been competing with ourselves too much lately; there have been too many things going on for our audience to be able to support," he said. "We've just been doing too much of the past few years."

Apparently the program cutback option will be easier than trying to pry money out of Caltech to hire more people.

What about the distress signals being flashed a few months ago? "Things don't look as bad as they seemed to be in December and January," said Willis. In December the Office had to accept the resignation of Tom Lehman, the Production Manager and a mainstay of the extraordinarily dedicated Office staff for several years. Lehman has continued to do some work for the staff since then, and "everybody has been bit-ing and piece-ing" to get the job done. It has worked, as regular Beckman and Ramo patrons would agree.

No Way

What will the programs be which are to be cut? Nobody has decided yet. The obvious choices are the big money-losses (most events in Beckman and Ramo lose money) and the events which require a great deal of staff time. According to Willis, cutting out the high-loss programs won't be undertaken if it doesn't have to be. Staff time is a more important resource, but it can't be generalized. "We would certainly be willing to spend a great deal of time on a program if there were much else going on then," said Willis.

The staff is always on the lookout for ideas ("We all look here") and is more than willing to hear from people with questions or gripes about the programming ("Call us!"). "We feel that it is very important to have programs that the students are interested in," said Willis.

That's our Public Events staff, doing an important job for the Caltech community.

Baxter Art Gallery

Still Goes Strong

The work of painters Walter Ashin and Ben Sakaguchi and sculptor Max Finkelstein is on display at Caltech's Baxter Art Gallery now through April 12. The exhibit hours are Tuesday through Saturday from 10 to 5, and Sunday from 12 to 5.

Ashin's work is in art institutions both here and abroad, and he is the winner of countless awards. The painter, who also has a wide reputation as a teacher, is showing recent large paintings along with lithographs.

Continued on Page Six

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ROMA GARDENS
Mandel: "There is no question that these courses have proved themselves . . ."
Since the question of the humanities has occupied a prominent position, I would like first to submit some thoughts on that issue. The Caltech curriculum provides an academic education and training. What is at issue is how the requirement for students in science should be satisfied. Totaling 108 units, that requirement allows little room in which to accommodate the studies which contribute to the larger part of the Caltech curriculum. In the last few years, the students have become better grounded in the basic sciences. This year, many students have asked to take in fields outside of science and mathematics; some do not know what to read, while others write a lucid sentence. If we were to do more than provide our students with first-rate professional training, it is imperative that we ask them to complete a rigorous course of liberal studies. More "broadening" courses like learning to play the piano will not do the job. Our students must be forced to intellectual engagement with alternative ways of looking at the world. The problems of values and identity, to what is unique as well as what is not in human experience. I do not believe that we would be hampering our students by making sure that they take 108 units for liberal studies. In the 10 years since our last report, the students have become better grounded in the basic sciences. We may also well ask: Should we establish an alternative course of study? We can also alter the criteria for the admission process. For example, we can recognize the value of liberal studies. It may only require the recognition that we are needed. It will not be a threat to those students who are interested in anything but the Caltech curriculum. What students do is crucial. We can do more to make the same enormous progress in science in four years? They would certainly graduate from Caltech with comparable credentials. Our curriculum offers some hope of making a scientific career. Moreover, the presence of students too much by reserving the...
Too Much Research?

"The research emphasis of the University of California," said Mayhew, "has expanded research interest, and the educational effectiveness of research-oriented universities is called into question by studies of graduates of liberal arts colleges who achieve far better on a number of measures than do graduates of research-oriented universities."

The study continues, "...academic values are threatened by the lack of institutional loyalty and responsiveness to student needs... Faculty members, to have been, especially during the 1960's...[some] departments, supplied with an outside economic base, seem to have been somewhat indifferent to institutional guidelines... The facts that the large research-oriented institutions have experienced the greatest intensity of student protest during the late 1960s may be related to the research and consulting preoccupations of the faculty..." With many professors, each doing his own specific research or the research of a limited number of close colleagues, there simply is no enough energy to work with other elements of the campus community."

Support Cuts, Expansion

Prior to World War II, universities conducted large-scale research in only a few areas. Faculty members, for the most part, engaged in research on their own, partly in spite of heavy teaching loads. However, cooperation between universities and the government during the World War led to rapid expansion of university-based research. Additionally, foundations and businesses began to allocate large sums for this purpose.

Unlike professors at the California State University and Colleges and the California Community Colleges, all professors at the University of California are expected to engage in research. This expectation is reflected in the need for comprehensive development of graduate programs and research activities on all UC campuses. It could be argued that Berkeley, UCLA and Davis should be supported and the others, even though they have expanded research interest, could be cut back to the educational missions comparable to the State University and Colleges."

Mayhew says the Legislature could also consider establishing a state science foundation, which would be a statewide equivalent to the National Science Foundation and would coordinate research search programs, furnish funds for basic research, and formulate statewide policy toward science.

The Plan

Mayhew said that California's Master Plan for Higher Education, adopted by the state's Joint Committee on the Master Plan for Higher Education, a report to the Joint Committee on the Master Plan for Higher Education."

Research A Brain Drain

"On the one side it is argued that research, which is supported by a department or separate grant, has drawn the best minds away from teaching... Even when faculty members teach, they resist out-of-class contacts with students because they interfere with research and consultation... Outside funding of star research projects and the lure of fame have tempted them to ignore or reject institutional educational goals."

Art Gallery

Continued from Page Three

"A large number of star professors have left last year at the University of New Mexico's Tamarind Institute. This phenomenon has been a theme, the stage and the sky."

Sakoguchi was featured in a major West Coast, first full-length Sakoguchi show. A printmaker and a painter, the Pasadena City College art teacher has received national recognition for his ability. His work is seen regularly in a variety of galleries and art institutes. Sakoguchi's representation in the Baxter show is one "impressive," cited: "nothing less than 4 foot panels which can be put together in different order. Sakoguchi's work terms with objects and people..."

Max Finkelstein's sculpture is in a private collection. Some pieces have been selected by the Museum of Modern Art in New York for loan to several American embassies. He has described his work as "the aesthetics of precision. To him, machined aluminum, computers, automated products, and the orbitry of space are elements of particular interest, as are squares, rectangles, hexagons, and circles..."
Antigone Opens
Beckman’s Third Term Schedule
by Marc Donner
Welcome home all you trolls and other assorted creatures. This term for your flicking enjoyment (the people (note) at Beckman Ticket Office have arranged a rather respectable collection of tempting delights. First to catch the eye is the National Shakespeare Company of New York’s presentation of Antigone at 8:00 p.m. on Saturday, March 31 in Beckman Auditorium. In the course of its ten (to date) annual tours, this non-profit organization has performed for over a quarter of a million people per season in colleges and universities across the country.

In Antigone, written in about 440 B.C., the conflict between Creon, the king, and his niece Antigone is usually interpreted as the classic statement of the struggle between the individual conscience and the central power of the state. In 1943 Jean Anouilh saw this conflict as the subject of considerable controversy and the question is still unresolved. Now, Murray and Malin suggest data from the spacecraft Mariner 9 point to the possibility that the poles on Mars have changed position numerous times over the last 100 million years. "We believe the evidence is even stronger for polar wandering on the earth’s neighboring planet than on the earth itself," they say.

The plate-like features which Murray and Malin believe may be evidence for polar wandering are shown in Mariner 9 photographs as circular areas averaging about 200 miles in diameter with outward sloping edges. The edges of the plates appear as narrow, evenly spaced light and dark bands with smooth, gracefully sculptured, gently sloping surfaces, their banded appearance apparently resulting from a series of stair-like contours. "These bands are surprisingly uniform in terms of their width and the amount of offset from one another," Murray said.

These circular regions only appear within the area around the poles where carbon dioxide and water frost annually appear and disappear. Murray and Malin believe they may consist of what originally was atmospheric dust, trapped by frost and left as a fossil-like residue after the frost evaporated. If this is the case, then the center of each circle would have represented a former spin axis of the Martian pole. "The surface of the plate-like areas is almost entirely free of craters," Murray said. "This suggests they are relatively young compared to other Martian features."

As supporting evidence for polar wandering on Mars, Murray and Malin allude to a large cluster of volcanoes near the Martian equator, discovered by Mariner 9. Murray and Malin consider that the volcanoes may be evidence of a condition necessary for polar wandering—massive fluctuation of the planet’s mantle created by churning currents of molten material, rising and falling, and occasionally breaking through the surface as volcanic activity. Huge masses of molten material shifting position within the planet, would be necessary to force the pole to shift its own position in relation to Mars’ stable outer core, the Caltech scientists explained. They believe radioactive heating within the planet may only recently have reached the point where these processes of mantle convection have begun.

**Curriculum Changes**
Continued from Page One

A committee proposal if the first 54 units were lowered to 27 units. In his opinion, students should have as wide a variety of courses as possible, and that restricting 54 of the units to English, History, Music, Art, and Philosophy would be too rigid.

**H, FH, G0**
Concerning Freshman humanities, the committee has agreed with the Division that the requirement should be continued. "Freshman Humanities" have been identified by various means, the latest being any Division course numbered below 10. A proposal (separate from the two mentioned above) is now under consideration by the Curriculum Committee, which would—by exception—make this description entirely correct. There would be a number of Political Science, History, English, and Music classes available for Freshman Humanities under the proposed plan, Ec 44b, and all philosophy and psychology classes now numbered below ten would be upgraded numerically to make them ineligible.

Students would still be able to be excused from the Freshman Humanities requirement by scoring a 4 or 5 on the advanced placement tests, or by receiving the instructor’s recommendation.

The next Faculty Board meeting is scheduled for April 9.

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Page Eight

Page House Wins Volleyball, Takes 9½-Point Lead

by Bob Kieckhefer

Page House swept first place in Interhouse Volleyball last term, widening its lead in the Interhouse Trophy standings to 9½ points. The Page Dudes, led by Ben Chun, had a 6-0 record, with the only blemish being a loss to Fleming in one of their three-game set.

Fleming, led by Chris Cooper, finished second in the standings when they lost to Page in the final game of the final set of the season. The Flem easily defeated every other house except Dabney, when the set went to three games.

Ricketts' third place in volleyball moved them into fourth place in the Interhouse Trophy standings. The Scurves relied on good teamwork in posting their overall record.

The Fall of the Ruggers

Ruddock placed fourth in volleyball this year, a substantial drop from a share of last year's third place in the Interhouse Trophy standings. The third annual William Shakespeare Film Festival will take place starting Saturday, April 7, at the Monica I theater in Los Angeles. The series features ten filmed versions of Shakespeare's plays: a Midsummer Night's Dream, The Taming of the Shrew, Henry V, Romeo and Juliet, Julius Caesar, Hamlet, Othello, King Lear, Macbeth, and A Winter's Tale.

Advantage of the special group rate ($1.25 vs $2) for AMND students. Price includes a recording of the performance at the theater and a chance to win a prize. The Festival concludes on Monday, April 2, with a special consideration for Caltech People. A Win- ter's Tale will be played on Monday, April 2, at the Monica I theater. The Festival is open to all members of the Caltech community. The Festival is open to all members of the Caltech community.

Page Nine

Cerebrum

Continued from Page Two

intellectual interaction between teacher and student, the instructors at Caltech will face increasing demands on their time just from the number of students here now: an increase of substantial percent of the current student body might be very difficult to handle. And, for one, place a higher value on the improved teaching goals above on a higher number of degrees produced.

A Student House

There is also the matter of the undergraduate Student Houses. As everyone must be aware, the Houses are not capable of meeting current demand unless conditions in them are so uniformly atrocious that a very large portion of returning Techers choose not to live on campus. There have also been that Houses with large numbers of freshmen and relatively few upperclassmen do not seem to work out. The Houses themselves have generally criticized the policies which in the past few years have admitted as many as 225 freshmen.

Caltech, of course, is branching out into various alternatives to the Houses, including the new co-ops. There is talk of Tech buying an apartment house for use by undergrads, similar to the one at 1001 E. Villa currently occupied by graduate students. Tying to provide housing for an extra two to three hundred students would fairly obviously place a severe strain upon the Institute.

Faculty and administrators might be inclined to overlook the importance of the houses in undergraduate life. At least one administrator has suggested that it is not Caltech's business to provide housing for undergrads who want it-after all, no other college does it. However, not all learning, even at Caltech, goes on in a classroom, and without the social aspects of undergraduate living is not necessarily a productive attitude. A great deal of Caltech's total effect on students, for better or for worse, comes about in the houses. I also suspect that, by and large, students who move off-campus tend not to be as active or involved in affairs at Caltech and elsewhere as those who live on campus (see above comments on extracurricular activities). Strong, or at least sizable, Student Houses (or co-ops or whatever) are an irreplaceable asset, which would be jeopardized by unplanned increases in the student body.

Is Not a Home

It is not clear why administrators want more Techers. I doubt that increased tuition fees (or even alumni donations, if we take the very long view) would provide much surplus after the costs of renovating and expanding the physical facilities of Caltech are calculated. Tuition is a small part of our operating budget, and most additional students, as most current ones, would be receiving scholarship aid. Added 'manpower' and diversity in the student body would be nice, but unless we just want 300 more of the same students we have now, we would do better to address ourselves to structural changes in Caltech's undergraduate program and environment.