

# California Tech

Associated Students of the California Institute of Technology

Volume LXII.

Pasadena, California, Thursday, September 29, 1960

Number 2

## Saga Hits Caltech, Food Future Shines

BY LANCE TAYLOR

With only a few squeaks in its well-oiled gears (like slightly late food and slightly frustrated waiters), Caltech's widely heralded new food program took over this week. Saga Food Service is officially in business.

Saga, which furnishes food for better than 80 American colleges, has as its motto: "Keep the Kids Happy." So far, it seems to be succeeding admirably. Student comment in the Houses and everybody's comment in Harry Chandler's new Greasy is unanimous. The food is good.

### Organization Plus

Saga is admirably organized to provide good food. The kitchens (even the one in the old Houses) look like an efficiency expert's dream — with contented help smilingly producing contented meals. Even some of the more surly Filipinos in the old Houses look as if they were in seventh heaven.

Directly responsible for Saga's bubbling euphoria is Ron Aver-

ill, who is general co-ordinator for campus food. Averill, a business economics graduate of Oberlin College, has the steely eye, glittering smile, and confident manner of a young organization man—a species ideally equipped to produce Good Food for the Masses.

**NOTE:** Tuesday night there wasn't enough meat loaf to serve all the men in Lloyd once. Later Tuesday night a genuine live worm crawled out of a hamburger in Chandler Hall.—Ed.

### To Please Everybody

Averill, says Averill, is anxious to please everybody, and acts as if he intended to do it. He even plans added inducements to the day-in day-out grind of good food. Some of these are surprise buffet suppers, picnic catering, edible box lunches, and birthday cakes.

Other high-ranking Saga men are similarly imbued with the Saga ideals. In charge of the cafeteria and new Houses is Dick Dempsey; in charge of the old Houses is Phil Grinstead. Both are experienced "food men," which means they have been preparing, serving, and/or selling food for a good many years.

All other local Saga employees, with the exception of Dempsey's assistant, are from the Pasadena area. All the old cooking employees (the Filipinos and others) were kept on, and additional help was secured through local employment agencies. Student House waiters are also still very much in existence albeit in slightly reduced numbers and (clean) new jackets. They are paid by Saga, and will be under the supervision of Dempsey and Grinstead.

Averill claims that this sort of thing is standard Saga procedure. He also claims that when

(Continued on page 6)

## Taylor Starts First Term Carnegie Humanities Program

BY SID LEIBOVICH

The Carnegie Corporation has given the Caltech Humanities Department \$300,000 to subsidize "additional work in the humanities and social sciences," according to Horace Gilbert, chairman of the department.

The money is to be used over a three-year period in a program aimed primarily for the faculty and graduate students. Instead of underwriting research in humanities here, the program will bring outstanding men to the Institute to lecture and participate in seminars. While the lectures will be open to all members of the Caltech community, attendance at the faculty seminars will be open only to members of the faculty and graduate students.

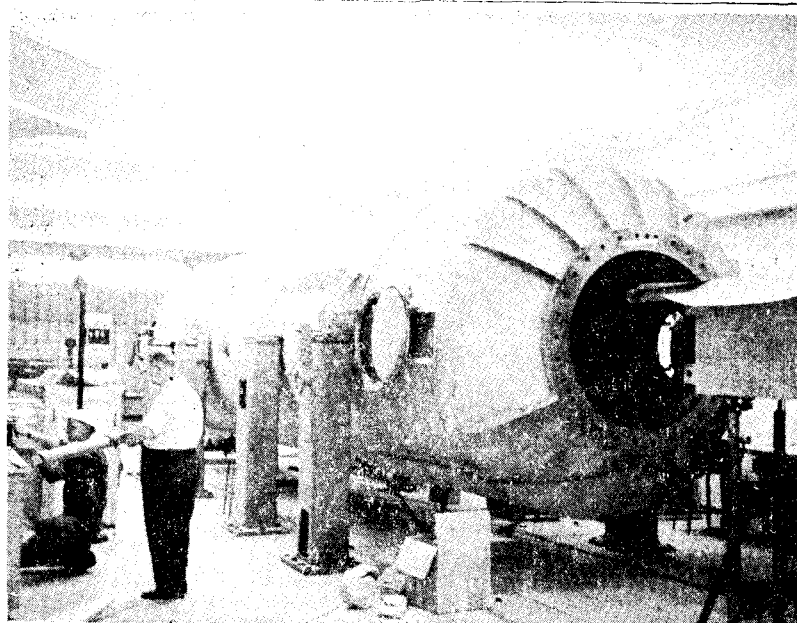
Dr. David Elliott is chairman of the faculty subcommittee in charge of the program.

This summer saw the beginnings of the program, with a series of seminars by members of the Rand Corporation. The seminars, moderated by Elliott and Matthew Sands, were the first installments on the portion of the program on the subject of "Science and Government, Institute Lectures on National Policy." These lectures and seminars focus on arms limitation and control and related topics, according to Dr. Gilbert. It looks very much as though the lecture subjects will range widely over topics of world interest, relating only generally to arms control per se.

Gen. Maxwell B. Taylor will kick off the first term's round of speeches and seminars. He will speak on Wednesday, Oct. 12, at 8:15 p.m., in Culbertson Hall. Other lectures will probably be held in Dabney Lounge, but arrangements as yet are not definite. The title of Gen. Taylor's talk has not yet been announced.

One week after Gen. Taylor's visit, M. Jules Moch, distinguished French diplomat, will take over. The subject of his talk, to be given at 8:15, Wednesday, Oct. 19, is also unannounced. Prof. H. A. Kissing of Harvard, Prof. W. Schilling of Columbia, and E. Katzenbach have already agreed to participate in the program. Prof. Schilling will speak on "The Decision to Make the H-Bomb," and Dr. Katzenbach on "Command Control Problems."

Sir Charles P. Snow has tentatively agreed to speak on "The Scientist in Government," as has Dr. J. R. Killian. Replies are awaited from other figures of note, including scientists, economists, psychologists, and political analysts.



Shown here is the 10,000,000-volt accelerator for use in discovering facts about atomic nuclei.

## New Linear Accelerator Readies For Research Use

The 10 million volt linear accelerator is now being installed in the basement of the newly completed Sloan Laboratory by engineers of the High Voltage Engineering Corporation, which built the machine for Caltech. Installation will take three to four months.

The basement laboratory is divided into an accelerator room, which contains the machine, a detection room into which the beam is bent by a huge magnet and aimed at one of five detection stations, and a control room well shielded from the other two.

During the experiments people will be only in the control

room because of radiation hazard. The accelerator is shielded by concrete and earth from the lawn above it and a radiation detector will be placed above ground to warn if the level should become dangerous.

The largest of the equipment in the detection room will be a magnetic spectograph now being designed by Dr. Ward Whaling.

To the present date, the heavy particle accelerators in Kellogg have been used in charting the energy levels of the nuclei of the 10 lightest chemical elements (from hydrogen up to fluorine and neon).

With the new accelerator, the energy level and nuclear reaction studies will continue into the heavier elements; they will also be able to investigate the higher energy levels of the lighter elements.

## Construction On Grad Houses Starts Library Is Delayed

Work will begin this fall on six more buildings of the current \$20 million development program. Ground is being broken Monday (see story elsewhere on page) for the four graduate Houses north of San Pasqual. Construction will begin in earnest within a month. They will have top priority, with completion a must by September, 1961.

The Karmen and Firestone additions to the aeronautics laboratory will be under construction before the end of the year. The Karmen wing will take about nine months to build, the Firestone section about one year.

The old dorm will be cleared away by the end of the year with construction on the Student Center to be built on its site (Continued on page 5)

## Dedication Set For Houses

The Caltech Student Houses are to be favored by the august presence of eight grad students this year, but only seven have arrived and one is reputed to have dropped out.

Ricketts House contains the majority of the seven grads with the whole of Snake Alley being set aside for grad housing. Three of the grads in Snake are: Joseph Liu, an aeronautics student from China; C. Y. Liu (no relation), also a Chinese aeronautics major, and Iya Abubakar, a geophysics major from Nigeria.

The two other grads, Narain Bhatia of India, and Philip Githinji of Kenya, live in 108 Rud-dock.

## 300 Girls

## Huge Exchange Set Friday Night

The first big social event to take place on the Tech campus this year will be held tomorrow night as all the Houses work together in a joint effort to start this year's social season off on the right foot. The House social chairmen, with Tim Little of ASCIT acting as co-ordinator, have arranged for over 300 girls to visit the campus and take part in this huge exchange.

The girls will come from more than a dozen colleges and high schools in the area, including Oxy, Scripps, Pomona, USC, Whittier, and Immaculate Heart Colleges; Westridge, Arcadia, San Marino, Muir, Mayfield, and Anokia high schools; and the L.A. County and Huntington Hospital nurses. Tech men will provide rides to and from the dance, which will last from 8:30 to 12:30.

Each of the girls will start off in a specific House, but they will be encouraged to circulate among all the Houses to make the exchange one big social affair. Each House will provide (Continued on Page 2)



Now wouldn't you like to dance?

I'd rather study.

Well, you can do it tomorrow.

I have to do it when I'm in the mood.

C'mon Honey, just one I'll ole dance

You're in my light.

Oh hell.

## Editorial

## Frosh and/or Houses

An interesting question beginning to arise in our minds this week is just how everyone feels starting a school year without the traditional two weeks of rushing the freshmen in a rotation to choose their permanent Houses.

Later in the year we expect that there will be another great debate, we hope somewhat more capably directed than last year's, to decide once and for all how to assign the frosh to Houses. We think it might be useful to ask a few questions and take a few notes in this first week, to be filed away for use when the question comes up. As we remember, some of the biggest points in last year's arguments hinged on the proper way to begin the frosh's career at Tech and the influences that the method of selection of his House might have on this beginning.

For example, what right now seems to be the attitude of the frosh toward Caltech, toward the importance of science in relation to the social and extra-curricular activities of college, toward the upperclassmen, toward the faculty, toward the Houses we have arbitrarily asked them to become members of? We recommend reading the impressions of frosh camp written by the freshmen members of our California Tech staff on page 3 as maybe one small answer to the question.

Are upperclassmen meeting the frosh in a manner that is as effective as that necessary under rotation when we attempted to judge each new man as correctly and rapidly as possible? Is the lack of pressure affording a more permissive atmosphere in which a frosh can grow at his own pace in his own direction without feeling a need to conform in order to get into the House of his choice or, on the other hand, is the lack of pressure preventing the upperclassmen from getting to know the frosh well enough to search out hidden leadership or social ability which he might encourage the frosh to develop?

To get a bit more philosophical, as we recall the big issue is that an overwhelming majority desires to make Student House living more meaningful than dormitory existence. What is desired is a system that will best insure the continuation of living units in which the students feel responsible for contact with faculty, for organizing social events and athletic competitions and which is a system permitting the students to take the initiative and assume the full work of organizing this part of a college education. It was argued that to best do this we need a mechanism to permit guys to live in the House with the people they most desired. However, the catch under the old system of rotation was that up to 50 percent of each frosh class does not get into its first choice House. Thus only half of the campus gets the supposed benefit.

We are attempting to draw no conclusions at this early date. We suggest only that everyone try to answer some of these questions as we see in this first week an alternative to the rotation method unfolding.

## Carnegie Series

Last spring, the Institute received \$300,000 grant from the Carnegie foundation (see story page 1). This grant was to be applied to research in the Humanities division, and there was no stipulation about how the money was to be spent.

We are glad to see that the money has been well-spent, so that students and Institute personnel as well as faculty members may benefit from the program.

The issues at stake in the many topics covered will be important for they will affect not only our generation but those generations and civilizations that follow in our steps. Of more immediate interest is the bearing which information presented may have on the current political campaign.

The speakers which are coming to the campus are well known in their respective fields. We would like to urge everyone to take a little time to hear the presentations, and then give the ideas presented some thought. See you all there.

## Senior Beach Party October 8

Big Secret! Where will the seniors hold their first beach party of the season? Huntington? Newport? Malibu? They're not telling, probably because they don't know yet, themselves.

Class president Don Forrest is spreading the word that the party will be held October 8, Saturday, from 11 a.m. to 3 p.m. in the afternoon.

Everything, including sunshine, sand, and soda, is free. The food provided includes soft drinks, beer, corn, hotdogs, and watermelon.

Transportation and women are the only items not provided from the class funds.

## Exchange

(Continued from page 1)

its own music and refreshments.

The girls will be wearing heels, so proper dress for boys will be coats and ties. In order to make the party a success, the only request is that girls stay out of the rooms until at least 10:30.

## Faculty Members Promoted

Promotion of 25 faculty members was announced by the Board of Trustees last week.

From associate professor to professor: J. Kent Clark, English; Charles E. Crede, mechanical engineering; James C. Davies, political science; David C. Elliott, history; Alfred Stern, languages and philosophy, and M. L. Williams, Jr., aeronautics.

From assistant professor to associate professor: A. L. Albee and W. B. Lamb, geology; Peter W. Fay, history; Nicholas George, electrical engineering; W. A. J. Luxemburg and C. H. Wilcox, mathematics; G. P. Mayhew, English, and E. E. Zukoshi, jet propulsion.

From instructor to assistant professor: Carver Mead, electrical engineering.

From lecturer to assistant professor: R. A. Huttenback, history.

From research fellow to assistant professor: R. E. Block, mathematics; R. S. Edgar, biology; R. W. Kavanagh and H. A. Weidenmuller, physics; R. G. Rinker, chemical engineering, and D. R. Smith, English.

From research fellow to senior research fellow: Anthony

Demetriades, aeronautics, and J. H. Mullins, physics.

From research fellow to instructor: C. R. B. Wright, mathematics.

## Frosh Test New SAT Test

The freshmen joined frosh at 14 other colleges as guinea pigs Monday for research aimed at an improved College Board Scholastic Aptitude test. They took a battery of exams which it is hoped will uncover some area of testing, which will better predict college class standing at high-level schools than does the present SAT. To do this, year-end grades will be compared with each frosh's performance.

How the frosh felt about this is explained by a freshman, Richard Karp.



## ARE YOU AS READY FOR THE FALL TERM AS YOU THINK YOU'RE READY FOR THE FALL TERM?

Check off the items: Raccoon coat. Stutz Bearcat. Beanie. Bank of America Checking Account...

*Bank of America Checking Account?*

Naturally! It's the safest way in the world to pay bills (the cancelled check is your receipt). It's the perfect way to keep track of funds. And, it's economical!

Open yours today at B of A!

**BANK OF AMERICA**  
NATIONAL TRUST AND SAVINGS ASSOCIATION  
MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

LAKE-GREEN BRANCH | 85 SOUTH LAKE AVENUE  
PASADENA, CALIFORNIA

## California Tech

Published weekly during the school year by the Associated Students of the California Institute of Technology, Incorporated.

## Editors

Tom Tisch, John Todoroff  
Managing Editors

Lance Taylor and Roger Noll

## Editorial Staff

Craig Bolon, Bill Bush, Barry Petersen, Dan Entingh, David Helfman  
Bob Greenwald, Bill Meisel, Richard Karp

## Business Staff

Cleve Moler, Manager

Circulation Manager: Howard Monell

The California Tech, 1201 East California Blvd., Pasadena, California.

Member of The Associated Collegiate Press

Second Class postage paid at Pasadena, California

Printed by Bickley Printing Co.

Represented nationally by National Advertising Service, Inc.

Subscriptions: \$1.00 per term, \$2.50 per year. Write: Circulation Manager,

# Student Camp Eyed By Frosh On Return

## FROSH FROLIC

The annual Caltech Frosh Camp attracted 202 less one active, reasonably uninhibited (green) freshmen plus selected upperclassmen and faculty and some transfer students who seemed a little "out of it" to Camp Radford last Thursday. Less striped suits but plus name tags, all headed for the hills in six complaining busses, excitedly pouring over issue number one of this exalted journal. Arrival at camp was reminiscent of stories of the assault on Guam.

After the menial tasks of finding food and shelter were finished, everyone assembled in the Lodge to hear Dean Strong and Dean Eaton welcome them and bandy "facts." The upperclassmen and faculty members present were introduced, disclaimed, and applauded. Since Dr. Sharp, scheduled to speak on "History 3D," was sick, Dean Strong filled in with a short history of the Institute. Call was given for talent practice, and everyone got to the real business at hand memorizing names, faces and personalities. Everyone, that is, except the talent, some of whom fell in bed at 2 a.m.

Breakfast talk the next morning centered around almost everyone's astute observation. "Damn, it was cold!" Following these comments, we assembled at the fire pit to hear Chief Devil Strong introduce his Executive Assistant. Dr. Huttenback spoke on "Four Years to Make a Civilized Man." The frosh got their first taste of "Do everything, but

not too much!"

Then the discussion groups assembled for their first meeting most to discuss, a few to argue about the definition of "civilized." After they broke up, numerous frosh and faculty exhibited their skill and prowess at softball, football, ping-pong, volleyball, assorted intellectual card games, and a rather nebulous sport designated as "mountain golf."

After lunch at the Filipino Greasy, Dr. Norman Davidson lectured on "The Education of a Scientist." His speech was followed by meetings of the discussion groups designed to tranquilize some of the more impressionable frosh. The honor system and the Caltech spirit of honor were seriously talked about.

Friday evening's program, the "Grand Amalgamated Concert and Talent Show," inspired the greatest number of laughs, handclaps, and occasional groans. The band, conducted by the inimitable Stan "Suza" Sajdera, creditably, and loudly, performed several selections. After many other cornball jokes, acts, solos, and a skit by our own Kent Clark, the show was closed with "impromptu" Dixieland by a Fearless Fiery Five Plus One. Before we settled down to more serious business, we received an enthusiastic exposure to our alma mater and a few of the more vain-glorious cheers. Then Dr. DuBridge, straight from one speaking engagement to another,

arrived to issue "An Invitation to Caltech." From the way he managed to convince us that our \$1300 bargain is quite some bargain, one concludes it's not surprising the new building program was so well subscribed.

Saturday morning's formal session was highlighted by Professor Owen's talk on "Techmanship." In the final meetings of the discussion groups following, most felt they had heard a pretty thorough analysis of Caltech activities and attitudes. After lunch, getting over the "shock" of losing the softball game to the faculty, a final whirl at activities, and a foot race, known as "clean-up," everyone descended upon the buses, enlightened and eager for the fun, the grind, and the smog.

A. Craig Bolon

Before new student camp started, I'm sure many freshmen looked forward to it with mixed emotions. However, now that it is all over I know we all share some of the same opinions of it.

First, I think we will all agree that it was a three days filled with variety. Because of the careful planning that went into the student camp, we were moved rapidly from one activity to the next.

The schedule was set up admirably to prevent any lack of interest. We went from faculty-member speech to discussion group to recreation period. This regular change of pace not only prevented boredom, but also

kept us from being hopelessly confused by the well-meaning, but sometimes contradictory speakers. Immediately after each speech, the discussion groups took over, clarifying and bringing out the sidelights of the speakers' major points. This, I think we will agree, was an excellent way to increase the value of the speeches.

What were the highlights of the new student camp? From the standpoint of speakers, I think most of us would say that the best was President DuBridge. He told us many interesting and informative things about Caltech that none of us had ever realized before, and he made "dry" facts come alive.

Along the lines of student participation, I know we all enjoyed the "Grand Amalgamated Concert and Talent Show," held the final night. However, I myself, and I believe many of my classmates, would choose a Mr. Wendel Wilkie Mendell as the outstanding individual performer as he led (?) the assembly in several yells.

This, then, was student camp, 1960. To the freshmen it was impressive, informative, and the beginning of four years of a whole new way of life.

—Bill Bush

## NEW STUDENT CAMP

When you are loaded into one of six buses along with over 200 other new students who are just as apprehensive as you are, a slight feeling of befuddlement is almost bound to ensue. Since it is the New Students' Camp which causes this feeling, evidently it is one of their major objectives to purge you of it. In order to accomplish this end, it seems at first as if many of the faculty members are actively competing among themselves to who can be the most "regular fella" in the bunch, if not by telling the best jokes (then possibly by telling the worst ones).

But this constraint dies quickly, and before long, judging more from the content of the speeches than the introductions, you can easily see that they, as well as most of your classmates, are regular fellas. Moreover, the mere fact that you are together with so many students with common outlooks, always in small groups, leads to a very close feeling among the total class. This is the atmosphere which pervades the Camp, and, at least in the eyes of the Frosh, typifies Tech.

—David Helfman

## CAMP IMPRESSIONS

More than anything else, Frosh Camp revealed the spirit of the Institute. When Bob Koh, our discussion group leader, said, "Freshmen aren't dirt at Tech," he underscored the impression that Caltech is an organization that unifies its members.

Faculty and upperclassmen were more than friendly. All appeared extremely willing to accept the frosh as partners in the venture of education.

As one of the group of frosh that talked to Dr. DuBridge after his Friday night speech, I was impressed by his thorough knowledge of all Institute activities. I had thought that Dr. DuBridge was a figure head; perhaps at best, a talented administrator. But no, we learned quickly that Tech's President is as much a scientist as any man on campus.

I learned that, despite the Honor System, Techmen do stretch a point once in a while. We did not need two extra blankets at night, nor was the camp pool warm enough to support swimming.

—Dan Entingh

The avowed purpose of the New Student Camp seems to be to convert a disoriented, unorganized and bewildered bunch of students into a well-oriented, close-knit and well-informed group of terrified CIT freshmen. Although it is utterly impossible to tell anyone all there is to know about Caltech in five short lectures, the camp succeeded very well in achieving its goals.

The many activities and the remoteness and informality of the camp life provided ample opportunities for me to associate with my fellow freshmen and with faculty and upperclassmen. These associations made me feel much more a part of my class and of the Institute as a whole than I did when I arrived on campus.

The lecturers and discussions, while leaving the solution of various conflicts I may encounter to me, provided a clearer view of these problems and gives me the opportunity to anticipate them and to realize that they are not unique.

But the above facets of camp life would be useless in solving freshman problems without one other factor that abounded at Camp Radford. This was the Spirit of Caltech, demonstrated so well in Dr. DuBridge's talk and in my associations with the upperclassman councilors. It is this spirit which makes the student a part of the Institute and at the same time gives him the ability to conquer all the many problems he will encounter in his four years here.

—Barry Peterson

Tech freshmen were again privileged to attend what is probably the most saddening experience that happens to them at Tech (with the possible exception of flunking out), New Student Camp. Many interesting facts, such as right now the average freshman has only a little more than a 50 per cent chance of graduating in four years, and theoretically, 53 units mean only 53 hours of study (a day?), become aware to the enterprising frosh at camp.

However, this sort of thing is only part of the New Student Camp story. Not every day does one see Wes Hershey of the YMCA throwing rocks at other people's mountain golf balls while claiming that he has never played the game before. Nor does one often see Dr. Huttenback, master of the Student Houses (we throw in these interesting facts once in a while), play the cymbals off-tune.

Allegedly, however, the real purpose of the New Student Camp is to instill in the frosh and transfer students the spirit of Caltech. In this it succeeds, but in more things than studies. Interesting things such as crew races and stealing the Big Boy from Bob's for ransom are also discussed. All in all, whatever it is that New Student Camp is supposed to do, it does.

—Richard KaKrp

**SPECIAL. If you're planning a big college weekend, be sure to include plenty of Budweiser®. It's the King of Beers.**



**Where there's Life... there's Bud®**

ANHEUSER-BUSCH, INC. • ST. LOUIS • NEWARK • LOS ANGELES • MIAMI • TAMPA



## Exciting Life

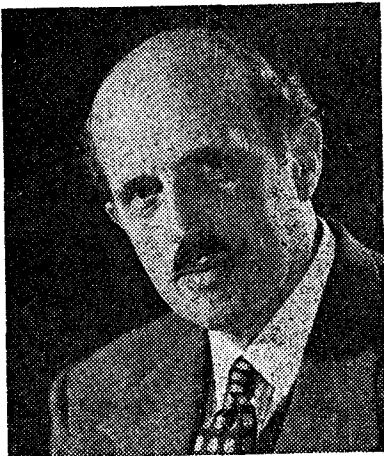
# Philosophy Of Stern Is Respected Worldwide

BY TOM TISCH

A routine announcement often belies a more important story. Such is the case with routine announcement of the appointment of Dr. Alfred Stern to the position of full professor from that of associate professor, a position which he has held for a number of years.

Dr. Stern's many articles and books are recognized throughout the world as masterpieces in philosophical thought, and his many experiences in the world have given him the rare ability to perceive and truly understand human problems and thoughts.

Born in Austria at the turn of the century, Stern took his degree from the University of Vienna, and served briefly as lieutenant in the Austrian army. However, as he matured, he iden-



Dr. Alfred Stern

tified himself more and more with the French culture. After receiving his Ph.D. from the University of Vienna, he taught at the Sorbonne for six years, until 1939. At the outbreak of the World War II, he volunteered his services to the French infantry — he was almost 40 years old.

When the Nazis overran France Stern escaped to Mexico City, where he became active in the French resistance movement through the Comité National Français, headed at that time by General de Gaulle. As press officer for this committee Stern published hundreds of articles and a book in support of Free France. He also taught at the

National University of Mexico, and the French College of Mexico City.

At the end of 1944, he went to New York City, where he taught at the French University of New York. The charter which de Gaulle had granted the university in New York was discontinued after the war. The intense concentration of European intellectuals on the East Coast in those years created an exasperating competition for positions. To avoid this Stern decided to "go west." In 1947 he became a member of the Caltech faculty.

Dr. Stern's work has been recognized in many ways. Among the awards that have accrued to him are the French Academic Palms, the title, "Officer of the Academy," also a French distinction, and the award Knight of the Legion of Honor for outstanding contributions to French culture and the valuable services he rendered the cause of France during World War II.

Stern speaks French, German, English and Spanish, all fluently, and he has published his many works in these languages as well as Japanese, Italian and Arabian. Stern feels that this familiarity with many tongues has helped to liberate him from what he calls "intellectual provincialism."

Stern published his first major works in 1932. It was "The Philosophical Foundations of Truth, Reality, and Value," and came out in German. Other books followed: *The Philosophy of Values* in 1936, *The Philosophy of Politics* in 1943, and *The Philosophy of Sartre and the Psychoanalysis of Existentialism* in 1951.

In 1957 Stern wrote *History and Values*, and used this as a basis for a lecture series at the Sorbonne where he was a visiting professor in 1957. It is an investigation of the mutual influences of value and history—history taken in both senses as the writing of history, and as the actual course of events.

Stern's latest book is the *Philosophy of History*, which is presently in press both in Buenos Aires and Paris. In addition, he has published a second edition of one of his books and is presently working on the second edition of a third.

In the summer of 1959, Stern went to Argentina for a series of lectures at the University of Buenos Aires. He was invited to stay for the Inter-American Congress of Philosophers in Buenos Aires, also, and for the Congress, he was elected president of the section discussing "Values," one of the four subdi-

visions of the conference.

More recently, Stern has just finished the necrology on Albert Camus for the French journal, *Revue Philosophique*; he has also done a similar article in English which will be published soon in the United States.

Stern has also just finished an article on Pascal for the 1961 *Encyclopaedia Americana*; the article on French science and philosophy in that *Encyclopaedia* is also written by him.

What are Stern's plans for the present — and the future? For the school year, he plans to concentrate on his new graduate philosophy course, Philosophy and Literature (P1 102) in which he will discuss the evolution of Western Philosophy and its expression in literature.

This next summer he has been invited to lecture at the University of Puerto Rico and also at the French Institute in Haiti.

## CFSAFST Needs Help, Members

The Caltech Faculty, Staff, Alumni and Friends Soccer Team, better known as the Senile Seven Plus Four, are looking for anyone interested, Dr. R. A. Huttenbach announced in a recent interview with the California Tech.

## Standard Unit Proposed For Blood Hormone

To accelerate work on an elusive hormone that shows promise in the treatment of some blood diseases, the California Institute of Technology and six other institutions propose the establishment of a standard unit of the substance to facilitate the study of it.

Biologists have developed methods of identifying, extracting and concentrating the hormone, erythropoietin (ee-rith-roepoe'-eh-tin), into a substance that is sufficiently active, biologically, so that such a standard unit can be established, said Dr. Geoffrey Keighley, senior research fellow, and Dr. Peter Lowy, research fellow, both of Caltech. Their work is supported by the American Cancer Society.

A sample of the concentrated material, made at Caltech from the blood of anemic rabbits, has been assayed in laboratories at seven institutions, and similar results were obtained in all tests. The institutions are Caltech, University of Chicago's Argonne Cancer Research Hospital, New York University, University of Buffalo Medical School, Northwestern University Medical School, National Institutes of Health at Bethesda, Md., and the University of California's Donner Laboratory.

While erythropoietin is now available in a biologically active form, scientists have not been able to isolate the hormone completely. They are attempting to do this to facilitate study of its chemical structure, and to determine whether there is more than one kind of erythropoietin. The hormone, which may be synthe-

sized in the kidneys, persuades "embryonic" blood cells in the bone marrow to make up their minds faster to become red blood cells. Subcutaneous injections of it cause a marked reddening of the marrow, where red cells originate.

Indications are that purified erythropoietin from animals will work on people. It is known that erythropoietin obtained from the urine of anemic people stimulates red blood cell production in rats, mice and monkeys, that dog erythropoietin works on rats and that rabbit erythropoietin works on rats and mice.

The hormone is easy to keep. The dehydrated form — a white powder — remains active several months at room temperature. In frozen plasma, it will remain active more than a year.

"A lack of common basis for

(Continued on page 5)

## Entering Honors Go To 15 Frosh

Fifteen freshmen have been accorded Honors at Entrance on the basis of their high standing on entrance examinations.

They are Barry L. Goldberg, David Holtz, Wallace D. Knutsen II, Thomas William MacDowell, Phillip G. Sokolove, James E. Baumgartner, Richard R. Burgess, David J. Divoky, Russell D. Hageman, Richard D. Hake, Jr., Roderick C. McCalley, John L. McClellan, Barry W. Peterson, George T. Preston, and George N. Reeke, Jr.

### THE CAMPUS BARBER SHOP

New Location:  
South End of T-4  
ALL HAIRCUTS  
\$1.50

Two Barbers to Serve You

### PARENTS AND FORMER SUBSCRIBERS

This is a sample copy of the California Tech, the weekly publication of the students of Caltech.

Subscriptions are available for \$3.00 a year (30 issues) or \$1.00 a term.

Write:

Circulation Manager  
The California Tech  
1201 East California Blvd.  
Pasadena, Calif.

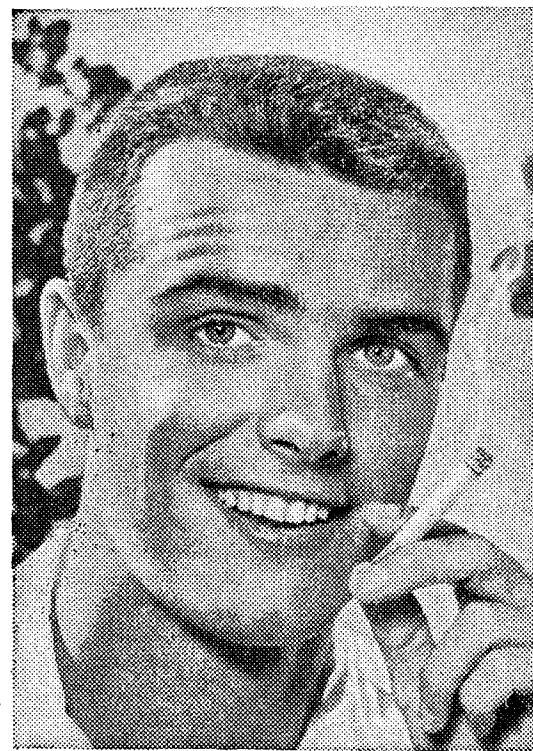
Thanks.



Tried  
Regular  
Filter  
Cigarettes?



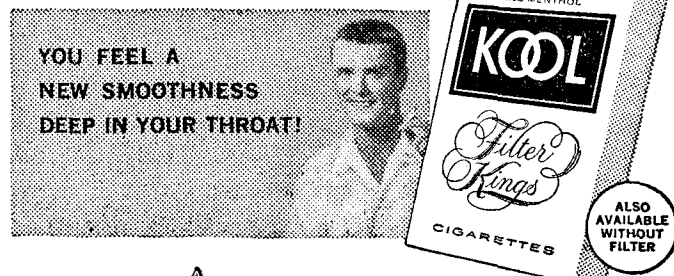
Tried  
Other  
Menthol  
Cigarettes?



NOW! Come Up...All The Way Up  
to the MENTHOL MAGIC  
of KOOL!

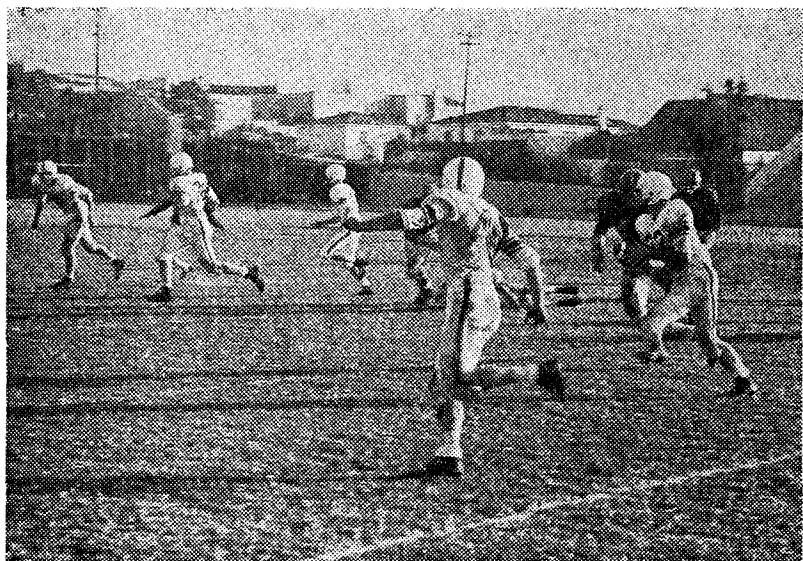
When your taste tells you it's time for a change, remember: Only KOOL—no regular filter cigarette, no other menthol cigarette—gives you real Menthol Magic!

YOU FEEL A  
NEW SMOOTHNESS  
DEEP IN YOUR THROAT!



©1960, BROWN & WILLIAMSON TOBACCO CORPORATION THE MARK OF QUALITY IN TOBACCO PRODUCTS

# SPORTS



Football team from last year demonstrates game tactics.

## Tech Football Team Tackles UC At Riverside Saturday

Saturday, the Caltech Beavers roll into action against the University of California at Riverside. Caltech is favored to win this game which is the season opener for both schools.

Last year, Riverside defeated by three touchdown passes from at least 20 yards out. This year, however, the Caltech varsity features a faster backfield which should be able to put up a much stronger pass defense.

On the following Friday, October 7, Caltech hosts Redlands in the first league game of the season which will be at the Rosebowl. Last year the Redlands Bulldogs beat Caltech 45-0, but this year seems to be much weaker since they made a poor showing in defeating La Verne 21-12 last week. Nevertheless, they must be ranked the heavy favorites in the contest.

Pomona meets the Beavers in the Rosebowl on the following Friday in a very even contest. The Sagehens defeated Tech, 31-14, last year, but lost many men due to graduation, and their best halfback, Pete Rodi, will be out due to a broken leg.

On Saturday, October 22, Cal Western comes to Tournament Park to meet the Beavers in a non-league contest. They looked very strong in the Pomona game.

Caltech takes to the road on October 29 as they travel to Whittier College. Conference champs last year, the Whittier Poets must be picked to repeat after defeating Santa Barbara 14-8 last week.

On November 5, Caltech travels to La Verne. La Verne put up a rugged defense last week against a powerful Redlands team and will give the Beavers real trouble. Last year La Verne defeated the Beavers, 14-6.

Occidental takes on the Beavers at the Rose Bowl on the following Friday, and can be expected to be the heavy favorite. Last year the Tigers, long traditional rivals of the Beavers, defeated our team, 75-14. While this game should not be a repeat of that debacle, Oxy still has a powerful team.

Caltech goes to Claremont-Harvey Mudd for the last game of the season which will be held on Saturday, November 11. A new team, CHM, has fielded a team for only two years. In both years that team was defeated by the Beavers—first 14-0, and then 14-12. The teams are very evenly matched again this year from

all appearances, but this heavily biased reporter will have to pick the Beavers to maintain the string of victories.

## Waterpoloists Begin Practice

The Caltech Varsity and Frosh Water Polo teams opened their practice session Monday under the watchful eye of Coach Web Emery. From the difficulty of the workout, it seemed that the Emerymen are pointing toward a possible conference championship. Initial teamwork seemed above average.

Eyes are pointed toward the opening games, first against PCC on October 7, and traditionally against the Caltech Alumni team on Saturday, October 8. Last year the Caltech team defeated PCC, and though PCC is returning stronger, prospects are bright for an opening victory. A defeat of the Alumni would be the first in a number of years.

Graduation thinned the ranks of the water polo men last spring, but returning lettermen, bolstered by an All-Conference transfer from Oxy, Fred Hameetman, seem to have the situation under control.

Mainstay forwards on the team consist at present of Bob Ruby, Fred Hameetman, Roger Bland, Pat Manning, and Bruce Chesebro. Sherm Gratch and Gary Mitchell also add depth to the team.

Tom Tisch will lead other guards Russ Russell, Gary Tibbetts, Lary Daubeg (up-coming sophomore) into the fracas on behalf of the defensive unity. Marshall Buck will hold down the goal.

## New Houses To Be Dedicated

A ground-breaking ceremony for the new graduate Houses and a dedication for the three new undergraduate Houses is planned for next Monday afternoon and evening.

The ground breaking will be at 4:30 p.m., somewhere in the cleared field near the corner of San Pasqual and Holliston.

Albert Ruddock, president of the Board of Trustees; Sterling Emerson, acting dean of graduate studies, and President Lee DuBridge will make short speeches.

James Page, Richard Von Hag-en (son-in-law of the Lloyd's), and Ruddock will be formally introduced to the members of

their respective new Houses just before dinner and return after a meal in the new Chandler dining hall to meet the students and probably take a short tour of their House.

At dinner their will be speeches by Dean Eaton on the history of the undergraduate Houses and by Dr. Robert Huttenback on the philosophy of the Houses.

## Construction

(Continued from page 1)

slated to begin next spring. This will be a nine months project.

Likewise, construction will begin next spring on the new auditorium also located north of San Pasqual.

The Millikan central library, earmarked for the quad in facing Throop Hall, is still in the preliminary planning stage. Ground will be broken in about a year and plans will call for completion in 12 to 18 months from that time.

Air conditioning is now being installed in the Keck Engineering Building. It will be ready for occupancy sometime in November, having been delayed two months by the fire last spring.

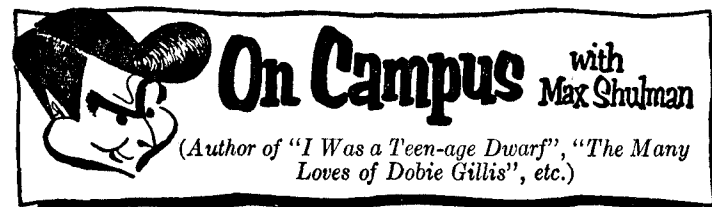
## Hormones

(Continued from page 4)

comparing erythropoietin from different sources, and in different ways and assayed by different methods, is deterring the solution of such problems as its chemical nature, its site of origin in the body and its possible therapeutic uses," Dr. Keighly said.

It is hoped that a uniformly standard erythropoietic substance may be made available to all interested investigators through some central agency such as the U.S. National Institutes of Health or England's Medical Research Council.

The seven involved laboratories propose the establishment of a standard unit based on its effect on test animals. A unit will be defined as the amount of it that is required to cause a net uptake by the hemoglobin in the blood of 20 per cent of a dose of injected radioactive iron in a sensitized rat. Iron is one of the building materials of red blood cells. Radioactively tagging the iron enables one to determine how many red cells have been manufactured after the iron is injected.



## THE PLEDGE YOU SAVE MAY BE YOUR OWN

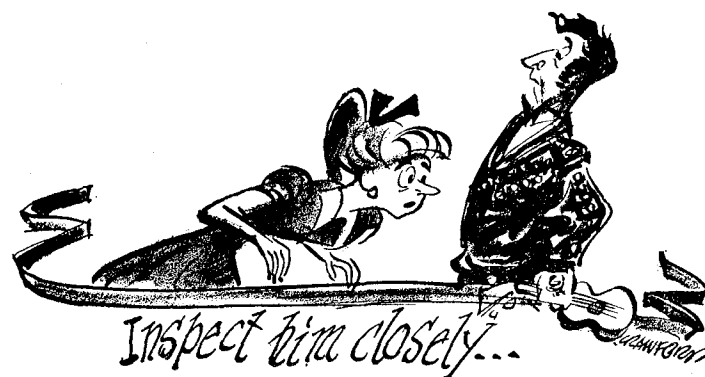
Today's column is directed at those young female undergraduates who have recently pledged sororities and are worried, poor lambs, that they won't make good. Following is a list of simple instructions which, if faithfully observed, will positively guarantee that you will be a mad success as a sorority girl.

First, let us take up the matter of housemothers. The housemother is your friend, your guide, your mentor. You must treat her with respect. When you wish to speak to her, address her as "Mother Sigafos" or "Ma'am." In no circumstances must you say, "Hey, fat lady."

Second, let us discuss laundry. Never hang your wash on the front porch of the sorority house. This is unsightly and shows a want of breeding. Use the Chapter Room.

Third, meals. Always remember that planning and preparing meals for a houseful of healthy girls is no simple task. Your cook goes to a great deal of trouble to make your menu varied and nourishing. The least you can do is show your appreciation. Don't just devour your food; praise it. Exclaim with delight, "What delicious pork jowls!" or "What a yummy soup bone!" or "What scrumptious fish heads!" or "What clear water!"

Fourth, clothing. Never forget that your appearance reflects not just on yourself but on the whole house. It was well enough before you joined a sorority to lounge around campus in your old middy blouse and gym bloomers, but now you must take great pains to dress in a manner which excites admiring comments from all who observe you. A few years ago, for example, there was a Chi Omega named Camille Ataturk at the University of Iowa who brought gobs of glory to all her sorors. Camille hit on the ingenious notion of suiting her garb to the class she was attending. For instance, to English Lit she wore a buskin and jerkin. To German she wore lederhosen and carried a stein of pilsener. To Econ she wore 120 yards of ticker tape. Her shiningest hour came one day when she dressed as a white mouse for Psych Lab. Not only her Chi Omega sisters, but the entire student body went into deep mourning when she was killed by the janitor's cat.



Finally, let us take up the most important topic of all. I refer, of course, to dating.

As we have seen, the way you dress reflects on your sorority, but the men you date reflect even more. Be absolutely certain that your date is an acceptable fellow. Don't beat about the bush; ask him point-blank, "Are you an acceptable fellow?" Unless he replies, "Yeah, hey," send him packing.

But don't just take his word that he is acceptable. Inspect him closely. Are his fingernails clean? Is his black leather jacket freshly oiled? Is his ukelele in tune? Does he carry public liability insurance? And, most significant of all, does he smoke Marlboros?


If he's a Marlboro man, you know he has taste and discernment, wit and wisdom, character and sapience, decency and warmth, presence and poise, talent and grit, filter and flavor, soft pack and flip-top box. You will be proud of him, your sorority will be proud of him, the makers of Marlboro will be proud of him, and I will be paid for this column.

© 1960 Max Shulman

\* \* \*

The makers of Marlboro, having paid for this column, would like to mention another of their fine cigarettes—mild, un-filtered Philip Morris—available in regular size or the sensational new king-size Commander. Have a Commander—welcome aboard.

HARVEY MUDD COLLEGE PRESENTS



**JAZZ AT CLAREMONT**  
WITH  
**CAL TJADER**  
AND HIS QUINTET  
**THE CANNONBALL ADDERLEY**  
QUINTET  
and presenting  
**PORTRAITS IN BRONZE**  
starring—**BESSIE GRIFFIN, THE GOSPEL PEARLS**  
Fri., Oct. 14 at 8:15 pm  
Bridges Aud. in Claremont  
Tickets: \$1.50, 2.00, 3.00 at door or at:  
**RUDI POCK'S** **MOORE'S HI-FI** **JAY DOTY'S**  
ONTARIO POMONA CLAREMONT  
A MODERN SOUNDS PRESENTATION



# Pauling Speaks Tonight On Battle With Sub-Committee

By KIP THORNE  
and BARRY GORDON

Linus Pauling, Professor of Chemistry at Caltech and Nobel Laureate, will speak on his current battle with the Senate Internal Security Subcommittee at a meeting sponsored by the Caltech YMCA for all students and interested persons this evening at 7:30 on the Athenaeum lawn.

Dr. Pauling is now in danger of being declared in contempt of Congress and perhaps imprisoned in connection with his refusal to give the Subcommittee the names of the scientists who helped him to circulate a petition urging a ban upon the further testing of nuclear weapons. The petition, which 11,021 scientists from all over the world signed, was submitted to the United Nations in 1958.

The legal bases of Pauling's refusal are, among other factors, the protections of the First Amendment. At present about ten people are in prison for refusing, on the grounds of the First or Fifth Amendments, to answer questions of Congressional committees. Besides refusing, on the grounds of the tee the list of names, Dr. Pauling has recently charged it with making false statements in a deliberate attempt to defame his reputation and cast doubt upon his integrity.

In addition to his activities in the field of Chemistry (winning Nobel Prize and lecturing Chem 1), Dr. Pauling has found time in several previous instances to tangle with the government. Perhaps the most interesting of these encounters occurred in 1954 when he was denied a passport to attend scientific meetings in Europe. That case was settled when his passport clearance was mysteriously granted immediately after he was awarded the Nobel Prize.

In connection with his present refusal to submit the list of circulators of his nuclear test ban petition, Dr. Pauling has stated: "Now, no matter what assurances this Subcommittee might give me about the use of the names of the people who circulated the petition that I wrote, I am convinced that these names

would be used for reprisals against these believers in the democratic process — these enthusiastic, idealistic, high-minded workers for peace. I am convinced of this because I myself have experienced the period of McCarthyism and to some extent have suffered from it, in ways that I shall not mention. I feel that if these names were to be given to this Subcommittee the hope for peace in the world would be dealt a sever blow.

Dr. Pauling further stated before the Subcommittee: "If I were to accede to your request to give you the names of these people . . . , it would be impossible for me, because of my conscience, to take part in these ac-

tivities in the future, because I would not be able to write a similar petition and to write letters to other people and ask them to get signature."

Dr. Pauling is to appear before the Subcommittee again on October 11, at which time he has been commanded to present the list of names. He, of course, plans to refuse, and this will probably result in an attempt to place him in contempt of Congress. Dr. Pauling may be saved from the October 11 encounter by the Supreme Court on October 10, which will then act upon his petition requesting a judgment on the constitutionality of the Subcommittee's demands.

## Tech Frosh Take New SAT Test As Bright Guinea Pigs

BY RICHARD KARP

Last Monday, while the remainder of the undergraduates registered, Caltech freshmen engaged in a two-hour battle with the college boards. This "battle" consisted of a special college board Scholastic Aptitude Test (SAT) for intelligent students. Ostensibly, the test alleged to be made up of two main parts, each divided into three tests. These two parts were on "logic" and "learning beyond the normal high school student." In actuality, the test was four social studies and current events tests, one English test, and one simple and tricky math test.

The cover of each booklet was adorned with pictures of Leonardo, Newton, Washington, Einstein, and others. Enterprising frosh added notes like: "These guys all flunked, did you?" Others drew small pictures with large hards labeled "Fiidel."

Typical of the type of question asked of intelligent students are the following:

- How is the price of rice in the Mozambique related to total attendance at Caltech soccer games?
  - The influential rate of parity amongst the silential palacious combids direct-

ly influences the amount of free spending money.

- Decreases.
  - Increases.
  - Remains the same.
  - None of these.
2. Which of the following is **not** a basic advantage of sexual reproduction? (Remainder censored.)

In another part of the test, a word was given followed by five others. The object was to find which of the five words reminded you of the given word. Sample words were U-2, cranberries, sex, and Zen Presbyterianism.

Another test gave the names of some "famous" people, and it was necessary to divide them into art, government, science, and writing (which evidently is not an art). A simple working code for this system was to remember that Pauling and Seabour are scientists, all Frenchmen (except Jacques Piccarde) are either artists or writers, all Englishmen are in government, and Bernard Baruch was not the 27th president of the United States.

As a conclusion, it seems that the test, coupled with the lackadasial attitude of the frosh, will make the whole thing a failure.

# Margaret Mead, Arch MacLeish Are "Y" Leaders

BY BILL MEISEL

The Caltech YMCA is planning a menu of events well calculated to stimulate the taste of Caltech students. Detailed planning will be hashed out the weekend of October 1, but the Y office has no reluctance in revealing the major features of the year's plan.

Heading the list is the Leaders of America Program. The Y will ring Playwright Archibald MacLeish and Anthropologist Margaret Mead to the campus this year.

MacLeish has lead a varied life with unvaried success in all he attacked. In the writing field his poems and plays are well known; he has received a Pulitzer Prize in recognition of his ability. In another field he has served in the cabinet of President Franklin D. Roosevelt.

MacLeish will be on campus for three days (Nov. 30-Dec. 2). He has informed the YMCA that he does not want to make formal speeches to the students; he felt it would be more profitable for him to lead bull sessions whenever the opportunity appeared.

Margaret Mead is an anthropologist who has made studies decidedly less than academic. She has studied the sexual customs of primitive people, including Americans. Some of her books are "Male and Female," "Coming of Age in Samoa," "Soviet Attitudes Toward Discipline," and "Cooperation and Competition Among Primitive Peoples." Dr. Mead will give several talks between April 10 and 12.

## Saga Food

(Continued from page 1)

Saga takes over a college, it is usually successful in indoctrinating old help to its new system.

### Family Food

Saga's system involves serving food family style in the Houses, which means it comes out in big bowls carried by tipsily trotting waiters. As part of its ambition to keep the troops contented, Saga provides seconds on everything but turkey, chicken, prime rib, and steak. Steak is served every Saturday night.

### Popularity Polls

Also involved in the Saga system will be food popularity polls. The first one at Caltech will be this October, and meals well-liked here will be played up on the menu. The Caltech results will be sent in to the national Saga office in Geneva, N.Y., to be combined with preferences from other colleges to produce a national popularity list. The popular lunch food last year, for example, was spaghetti.

The food polls are used to plan menus, which are sent to each school from the national office. Individual schools end up by pretty much serving what the national organization tells them.

Judging from comments at other Los Angeles area schools (Redlands, Immaculate Heart, Los Angeles State), Saga—centrally planned or no—serves good food. It seems to be starting out that way here.

As usual, theological students will come on campus for a short time this winter. Without doubt, this will cause some interesting debates.

The Y also plans some interesting co-educational conferences which should be socially as well as intellectually valuable. A good example is the Scripps-Caltech conference in February.

## Young Demos To Hear Brown

BY STAN KLEIN

The Caltech Chapter of Young Democrats will begin the new year with an address to the Student Body by Mrs. Rudd Brown, Democratic nominee for the House of Representatives from this area. She will speak Thursday night, October 6, in Dabney Lounge.

The main interest of the Caltech YDs at the present time is the campaign of Mrs. Brown. Her election is of special interest to Caltech students as her husband, Dr. Harrison Brown, is a Caltech professor. It is quite easy for even lazy students to find themselves involved in her campaign, as her opponent is considered to be to the right of Goldwater and as her chances for election seem very good.

The last few months have already seen the YDs expend much time in door-to-door registration, Dollars for Democrats, conferences and even a co-educational picnic. All interested people are urged to see Eli Chernenow in Ruddock. In addition, Mr. Chernenow will arrange transportation for all people interested in journeying to UCLA tomorrow, Friday, at 10:00 a.m., to hear an address by Gov. Stevenson.

## Dance Class Begins Year

The ASCIT Dance class will meet for the first time this year next Wednesday, 7:30 p.m., in Culbertson Hall, and every Wednesday night thereafter throughout the year.

As usual there will be a beginning class and an advanced class, both taught by a professional dancing instructor. It is hoped that last year's teacher, Mr. Tom Estes of the Mark Boyd Dance Studio in Beverly Hills, will be returning.

The girls for partners will again be invited from local high schools.

Co-chairman Pete Lazlo encourages all shy newcomers with the motto: "You will find people who dance much worse than you do."

Social dancing will follow the class instruction, at 9:30. Admission to the class is 50 cents.

Drugs Sundries Cosmetics Tobaccos

CALIFORNIA REXALL  
PHARMACY

555 S. Lake SY 2-3156  
Breakfast Lunch Dinner

look to Berlitz for languages!



BERLITZ  
School of  
LANGUAGES  
82nd Year

GERMAN, RUSSIAN, FRENCH

You can speak any foreign language fluently in an amazingly short time!

CALL FOR A FREE TRIAL LESSON

170 So. Lake Avenue, Pasadena SY. 5-5888

Also Los Angeles, Beverly Hills and Santa Ana  
Air Conditioned Studios Free Parking

HACKETT'S

SHIRT SHOP

10% OFF ON YOUR FIRST PURCHASE  
WITH THIS AD

SHIRTS SPORT SHIRTS TROUSERS BERMUDAS BELTS  
HOSE TIES UNDERWEAR JACKETS SWEATERS

Surprise Location: 915 E. CALIFORNIA  
2 Blks. West of Campus  
Also: 62 South Lake

Your Activity Card May Bring a Free Pizza From

ROMA GARDENS

1120 E. Green

Call SY 2-9748 for Speedy delivery service  
15% OFF TO ALL TECHMEN