Construction begins on new student health center

Construction began Monday on the $300,000 Archibald B. Young Health Center, located on Arden Road next to Tournament Park. The new facilities should be ready for use by September 21, according to Mr. Wesley Hertenstein, head of the Physical Plant department.

NSF awards predoctoral fellowships

Thirty-four Caltech students have been awarded predoctoral fellowships by the National Science Foundation. D. C. Ten of the students are undergraduates about to enter the first year of graduate school, while the remaining 24 are in their intermediate or terminal years of graduate work.

The seniors receiving fellowships are Pete Crawlwy, Dick Hendry, Peter Jordan, Jacob Lubliner, Howard Marshall, Don Nierlich, Herb Bauch, Stu Richert, Edwin Royce, and Harrison Schmitt.

The fellowships consist of $12,000 plus tuition and fees for one year's study at any graduate school. The National Science Foundation, a government-supported agency, awarded a total of 845 fellowships to students selected from 3028 applicants.

Brief refresher course in Tech honor system

With the opening of a new term, the California Tech again presents a resume of the Caltech honor system in the belief that the preservation of the Honor System depends on the full and complete understanding of the participants.

The student Policies and Procedures presents one of the available summaries and also offers an opportunity to observe the attitude of the administration.

"The Honor System of the Institute covers tests, laboratory reports, and homework. It applies to both undergraduate and graduate students. Instructors should always keep in mind that an honor system cannot work unless it has been made perfectly clear to the students how much it means to them and that they must do their fair share in preserving the system. The only way to do this is for each student to be aware of the rules so that he is given a test or examination. Students may leave the room and return as they please, and it is the responsibility of the students to see that no cheating occurs. Unless the instructor directs otherwise, students may take their examinations in rooms other than those where the papers are distributed, but taking examinations in the Humanities or Physics libraries is not recommended. It is the student's responsibility to return his paper to the scheduled room at the announced time, and to send the examination, and that of the instructor to be there to collect all papers."

"Administration of the honor system is in the hands of the student Board of Control, and any violation of the honor system comes to the attention of the instructor. He should report the matter to the Board of Control, and the Board of Control, in turn, will report to the Chairman of the Student Board or to one of the deans. Violations involving graduate students should be reported initially to the Dean of Graduate Studies."

Architect's drawing of the Archibald B. Young Health Center now under construction.

"Doc" Clark writes, teaches, leads

Job opportunities for graduates of CIT have steadily grown more lush in the past two decades. Whether this is mainly due to changing demand, improved caliber of students, or to the efforts of Donald S. Clark is hard to say.

Clark, 38, a former student and a professional cooperative, Clark is proud of his work and justified so. He has been professor of industrial engineering since 1934, Director of Placements since 1935 and secretary of the alumni association since 1936. An alumnus of Caltech himself, he has been Resident Associate of Dearborn House, editor of Engineering and Science, president of the Alumni Association, active in World War II ordnance projects, and is currently president of the A.S.M.

Award-winning Research

Not one to be restricted to teaching alone, "Doc" Clark has done award-winning research in the dynamic behavior of metals and alloys, and has written two textbooks.

He seems to have spare time, too, and Jao spent it amassing a collection of rare old microscopes and a library of books and professional magazines on the subject of mechanical engineering (he binds many of these himself), and loans them out to his teaching assistants.

"As is the case with many instructors, Clark writes, teaching alone, "Doc" Clark has had the chance to learn the businesses with which he is connected, and is interesting work in himself. If you are interested, do any one or, preferably, all three of the following: put a note in the K box in Dabney; speak to the present staff on the publications; and ask Clark personally. If your interests lie, be and at the Board of Directors meeting meeting Monday night at 8:00 o'clock in the library.

There also exists a vacancy for the office of Little T editor.

Houses elect officers for 1957 term

Assuming the responsibilities of office at the end of last term were two of the following: John E. Taylor, Hackett, John Kildesperger, Dabney, Mike Konrad, Flask, Blacker and Dick Cooper, Troop. Joining them at Wednesday's Inter­house Committee Meeting were newly elected veeps Frank Al­fred, Dave Lange, Dr. John Smith, Bob Johnstone, and Jim Wilkin­son.

Other house officers for the coming year by houses are: Ricketts: Dick Barron, social vice-president; Ford Holzman, secretary; Hugo Fichter, treasurer; Hal Ingman, Vice President; Singmaster, athletic managers.

Dabney: Bob Lange-De Picciotto, social vice-presidents; Doug Shkoler, secretary; Bud Pianghiulle, treasurer; Alan Teigen, athletic managers.

Smith: Mike Levinson, librarian; Dennis Paul, historian; Lou Toth, comptroller; Premere: Mike Gray Hill Graham, social chairman; Dick Cooper, treasurer; Nick Grosman, treasurer; Alan Emanuel-Mac Poor, athletic chairman.

Wheat: Gary Zimmerman, librarian; Ron Dainow-Sier O's Guad; Johnson, social chairman; Tom O'Leary, secretary; Gus Akelula, treasurer; Tracy Atherton, librarian; Larry Martin; Gryker, athletic managers.

Big T, Tech seek officers

Due to a lack of candidates in the recent election, the offices of Big T President Dave Elsberry, Tech Business Manager are un­filled. These offices offer a chance to help the building with which they are connected, and are interesting work in themselves. If you are interested, do any one or, preferably, all three of the following: put a note in the K box in Dabney; speak to the present staff on the publications; and ask Clark personally. If your interests lie, be and at the Board of Directors meeting meeting Monday night at 8:00 o'clock in the library.

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Hewitt to talk to math-men

Dr. Edwin Hewitt, professor of mathematics at the University of Washington, will give two lectures for undergraduates at 4:15 p.m. on Monday and Tuesday, April 7 and 8. Topics to be discussed are "Introduction to an Integral" and "Generalization of Groups."

The first lecture will be on an elementary level, while the sec­ond will be more technical, and Dr. Hewitt will emphasize that the new emphasis on aud­iting non-mathematics majors and students in science and engineering in the future.

Hewitt received his Doctor of Philosophy in mathematics at the University of Wisconsin, and is presently professor of math­ematics at the University of Washington.

New sex lecture features panels

Sex lectures returned to Tech last night as a group of local physicians and psychiatrists presented a movie and a panel discussion.

Informal discussion groups and a special session of answering questions followed the presentation of the innovative films in the new series. These lectures, organized by Dr. Richard Webb, president of the Student Body and director of the health center, are the first of three scheduled next week since the Caltech YMCA disco­

program its program two years ago.

Following last night's movie and discussion, the audience sep­arated into four informal sessions in the student house lounges. Dr. George Maybew, master of student houses, em­phasized that each of these ses­sions were open to all men, re­gardless of house allegiance.

During the next week men are asked to submit questions, sealed if desired, to Maybew's office. Next Thursday the panel will conclude the program with another panel discussion, an­swering of questions, and fur­ther presentations.

Participating in this series are Dr. Thomas Dorr, Dr. Karem Mundinger, Dr. Alan Emanuel-Mac Poor, and Dr. Daniel Siegel, Webb, and Dr. John Wein.

Sex lectures were conducted by the YMCA until 1955, but they consisted entirely of one-man talks, and were designed to help the new emphasis on aud­iting non-mathematics majors and students in science and engineering in the future.
Eduational policies are spelled out by Institute

The substance of Caltech's educational policies, as formulated by Dr. Arthur Amos Noyes, is published in the Institute's Policies and Procedures with the observation that they should be kept continually before the faculty and student body.

The California Tech reprints them here as a reference for the faculty, the students, and the Tech's editorialists. Noyes' philosophy of education is progressive and appealing, and the Institute has adhered to most of its points.

However, there have been a few notable exceptions, and these will be the topic of future editorials. Meanwhile we present the quotations for critical examination:

"The four-year undergraduate engineering courses of the Institute shall include an unusually thorough training in the basic sciences of physics, chemistry, and mathematics, and a large proportion of cultural subjects; for the time for this being secured by eliminating some of the more specialized engineering subjects, which may be pursued in graduate courses by students desiring further professional training. It is hoped in this way to make the undergraduate courses of the Institute a combination of a fundamental scientific training with a broad cultural outlook, which will afford students with scientific interests a type of college education which avoids the narrowness common with students in technical schools and the superficiality and the lack of purpose of many of those taking academic college courses. The instruction in the basic engineering subjects will, however, be maintained at the highest efficiency so that the graduates of the engineering courses may be prepared for positions as constructing, designing, operating, and managing engineers. Provision will also continue to be made, especially in the four-year courses of Physics and Engineering, Chemistry and Chemical Engineering, for the training of students for positions in the research and development departments of manufacturing industries.

"Every effort shall be made to develop the ideals, breadth of view, general culture and physical well-being of the students of the Institute. To this end the literary, historical, economic, and general scientific subjects shall continue to be taught by a permanent staff of men of mature judgment and broad experience; the regular work in these subjects shall be supplemented by courses of lectures given each year by men of distinction from other institutions; the assemblies addressed by leading men in the fields of education, literature, art, science, and engineering, public service, commerce, and industry shall be maintained as effectively as possible, moderate participation of all students in student activities of a social literary, or artistic character, as in the student publications, debating and dramatic clubs, musical clubs, etc., shall be encouraged; and students shall be required or encouraged to take regular exercise, preferably in the form of games or contests offered by the Institute. The purpose of the Trustees is to make as rapidly as possible additional facilities for these student activities by the erection of a student union, a gymnasium, and dormitories. Great importance is also attached to making the campus attractive in its architectural and landscape features, because of the influence of such surroundings on the students and on the public.

MECHANICAL & ELECTRICAL ENGINEERING STUDENTS

Representatives from the Aeronautical Division of ROBERTSHAW - FULTON CONTROLS COMPANY will be on Campus April 3, 1957 to interview students who will graduate in June.

The Company Brochure is available in the Engineering Placement Office.

Tennessee:

California Tech
Editor-in-chief—Bob Wald
Managing Editor—Dave Lemmon
Night Editor—Jim Cole
News Editor—Jim Williamson
Feature Editor—Mike Eldred
Sports Editor—Steve Ensminger
Audience Editor—John Lange
Business Manager—Ed. Task
Entered as second-class matter November 22, 1947, at the post office in Pasadena, California, under the act of March 3, 1879.

Secretary's Report

Since Wednesday's meeting was not a regularly scheduled one, the presence of seven boating guests was gratifying. It was only unfortunate that all of the members of the Board could not be as prompt as our guests.

EDUCATIONAL POLICIES

The question of student activity in the determination of educational policies and changes in curricula of the Institute was discussed at some length. This has become a quite complex question, however two points which came out on Wednesday evening were: will we be able to work with the faculty on general issues or will we have to resort solely to criticism, and the possibility of proposing some changes in the Engineering curriculum in the not too distant future. The second of these points, while less general, is at this time the more pressing issue. A poll of student opinion concerning the Engineering curriculum will be taken soon.

CALIFORNIA TECH COMMITTEE on landscape features, because of the possibility of proposing some changes in the field of art, music, and drama, is unable to suggest changes at this time. The second of these is the possibility of proposing some changes in the Physical Sciences curriculum, which has been brought to the attention of the Board at a previous meeting. The Board foresees the impending danger of Farrago but would like to see a really good magazine take its place. Since all the details of the Scholz, et al., proposal were not readily available, this discussion will be concluded Monday evening.

PUBLICATIONS COMMITTEE

The other apparent problems led to the establishment of a Publications Committee to review all ASCIT publications. Considerable changes, particularly in the jobs of the various business managers, will probably result from the findings of this committee. The committee is composed of the ASCIT Secretary, Treasurer, and Publicity Manager. The views of any interested students are very sincerely solicited.

CLASS SCHEDULES

The ASCIT Board has gone on record with the Educational Policies committee as opposed to classes from 4 to 6 p.m.

Mike Godfrey
ASCIT Secretary

8800

Authors Tee

These famous Arrow Tee Shirts have comfort woven right into them. They can't sag, can't bind, can't stretch out of fit. Here's a fine-spun fabric that "gives" with every motion you make. And the Dacron reinforced neck band keeps in perfect shape—permanently. Arrow Tee, $1.25; Arrow Guards (knit banded), $1.25.

ARROW

Tee means "Top!" when its an Arrow

Arrow Tee Shirts and knit banded Guards are made of the finest, finest spun fabric. The Dacron reinforced neck can't sag out of place. Comes in any size and we have our fine assortment of Arrow Tees and Guards.

Tee, $1.25 up; Guards, $1.25.

An inside story you ought to know

MECHANICAL & ELECTRICAL ENGINEERING STUDENTS

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Food riots rock Tech: house meals boycotted

by Berken Chang

Students, police clash in Saturday night protest; traffic blocked by hodnett and burning gasoline, wholesale arrests; student house meals boycotted.

The trouble began with the administration's plans to acquire money by raising prices and cutting expenses—a noble American pastime. Next fall student house rent and board at Tech are to be raised 11 per cent. Services are to be abolished: room cleaning, linen supply and night telephone privileges. Meals are to be a little simpler, but just as nourishing.

"Fierce and solemn and ominous! Here is some more information from The Tech" (official newspaper of the undergraduate Massachusetts Institute of Technology), March 5, 1957.

"What began as a small crowd of chanting students turned into a full-scale riot last Saturday night as residents of East Campus demonstrated against the Institute's announcement to increase dormitory rent next term.

"Waving homemade posters declaring 'We protest' and 'Lower rent' the students yelled about in front of the Dean's home shooting off fireworks and throwing snowballs. As host sets blast..."
**The Barfly**

by Kay någhara and
Bil Shuster

This column is dedicated to those undiscriminating persons who feel all alcoholic beverages consist of either beer or bourbon.

The first drink in this series is commonly known as the Last Kiss:

**LAST KISS**

1 oz. brandy
1/4 tsp. lemon juice

The proper way to mix this drink is to measure all quantities with a straight edge and strain the mixture into a chilled glass. From experimental formulations it has been found that deviating from the recommended proportions detracts from the balanced flavor.

The next step is to present the glass, full of course, to the proper female. It is not guaranteed to make you the life of the party but is highly recommended to gain the desired end as indicated by the title—i.e., the Last Kiss. The drink can do no more than this but if you can't handle the situation from here on, don't blame me.

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**The Fair Sec's**

by Al B. Doya

Tucked away in a corner of the Kellogg Radiation Lab is England's latest contribution to the health and welfare of the North American colonies (and Caltech in particular) in the form of Jan Cooper, a vivacious and lively good will ambassador who belies the old story about all Brits being grins and shires.

Jan, who celebrates next month the first anniversary of her arrival in America, claims the American way of life has several advantages over life in England.

High on the list of her special interests are swimming, dancing, partying in general, and bicycle racing. Jan claims several years' experience in the cycle racing field, all acquired while in England.

Since coming to the USA she has traded in her no-cylinder two-wheeler for a trim-looking V8 Ford that is the envy of about ninety per cent of the co-ed loving members of the student body.

Inevitably during the course of our interview the question of Jan's impression of Caltech men arose. "Just like any place else," she said. "Some are very nice, some not-so-nice and, well, you know, you see all kinds." Don't give up though, boys, for she was quick to add; that she was much more impressed with Caltech men than the male population of England.

With a recommendation like this to build your ego and bolster your confidence, I'm sure that it will be easy for you to change course slightly on that long week down to Bridge for eight o'clock so that you pass Kellogg and get a glimpse of at least one person with a happy face and cheery disposition before you settle down into the daily grind.

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**A Campus-to-Career Case History**

Thurston B. McLeran, called Mac by his friends, is an engineer with Southern Bell Telephone and Telegraph Company at Decatur, Georgia.

Much of his work is concerned with the future—planning for telephone service to meet predicted demands a year, or five years ahead.

"My biggest job to date," Mac says, "has been engineering additional communications facilities for an aircar and ajoining aircraft factory in our district. This means making field studies of the customer's requirements and planning how new telephone facilities can best meet them. Then I translate this information into working plans for our construction and installation people. It's a big job, and gives me a lot of responsibility. It's challenging work, too, for an engineer."

Figuring on his own future concerns Mac also. He graduated from Georgia Tech in 1952, with a B.S. in Electrical Engineering. He went with the telephone company because of the advancement opportunities it offered. Today, Mac is married and has one child. He looks forward to an interesting career in a growing business where individuals can advance as far as their abilities will take them.

There are many rewarding career opportunities in all Bell Telephone Companies, and at Bell Telephone Laboratories, Western Electric and Sandia Corporation. Your placement officer can give you more information about Bell System Companies.
“What’s it like to be a Physician at IBM?”

Five years ago, college senior Nick Hammer asked himself this question. Today, as Administrative Assistant to the Quality Control manager, Nick reviews his experience at IBM and gives some general advice to those interested in pursuing a career in the field.

Nick came to IBM in 1961 with a B.S. in physics. He started as a Technical Engineer in Test Equipment Engineering—working on an analog bonding system. When that project moved from the Endicott to the Poughkeepsie plant, Nick followed it, becoming first an Associate Engineer, then a Project Engineer. As the latest iteration of Quality Control, he has worked on IBM’s first transistors and later on IBM’s vast array of punch cards, from simple sorters and cards to the “electronic” computer.

Today, as Administrative Assistant to the Quality Control manager, Nick reviews his experience at IBM and gives some general advice to those interested in pursuing a career in the field.

Problems fascinating to the physician

Nick has taken full advantage of IBM’s extensive educational facilities to get ahead at IBM. He took at least one course each semester on subjects within his immediate work area—courses on digital and analog computer systems and on their components such as cores and transistors. He found that taking management courses was also very helpful. “If you want opportunity for study,” Nick says, “IBM will provide what you want.”

How about further study?

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Frosh ball seeks depth

PAZ NAZ, 7-2

The Caltech tennis team hosted the Pasadena Nazarene Crusaders Tuesday. Caltech won four singles and all the doubles emerged triumphantly, 7-2. The first doubles match was the closest and the best of the day's matches. Frank Cornelia and Turtlene Muller, considered the 

Beaver ball club gains much needed experience on trip

by Bill Kern

Mixed emotions were in order as the Beaver baskettballers turned from their trip to sunny San Diego. The 80-day southern sojourn saw some of the best basketball played by a Caltech team, but also some of the worst. The “shakedown cruise” gave the Beavers a chance to develop under the pressure of some stiff competition which served to point out weak spots with awesome rapidity. The record for the trip shows one win and three losses.

In the first game Wednesday at El Toro Marine Air Base, Coach Ed Presler used pitchers Goldberg, Johnson, Howell and Nelson but failed to halt the Marine attack at Tech lost 115. The vacation layoff noticeably affected Beaver hitting as four errors and seven pass balls combined with 15 walks and 20 El Toro hits to run up the score.

By the next day, however, the situation settled down as Howell went all the way to defeat the San Diego Naval Training Center 83 in a very satisfying ball game. The Beavers did it with eight hits including a superfans homer by Ed Berry in the ninth. Tony Howell gave a fine exhibition of almost perfect control coming through in the clutch to frustrate the Navy hitters and rate honors as hero of the trip.

“Big company works for me...”

JOHN D. EVANS, University of Pennsylvania, 1955

“I began working on a training program for General Electric in the summer of ’52. Right now, I’m Employee and Plant Community Relations Manager” of my company’s new plant in Burlington, Iowa. One of the advantages I found in working for a big company like General Electric is that, because of its size, it is able to give me, and other college-graduate employees like me, a wide variety of training and experience in anyone of 159 plants all over the country. Through an extensive on-the-job training program, it is providing me with the opportunity to become one of the top men in my field, and I know that as long as I apply myself to each job, I’ll keep moving up. The way I look at it, General Electric is helping me help myself. That’s why I say I’m working for a big company, but a big company works for me, too.”

“A big company works for me...”

John D. Evans, University of Pennsylvania, 1955

The Frosh football team, under the guidance of Jack Peter- son, seemed to find the good season if it can overcome the lack of an experienced catcher.

So far neither of the two positions of the catcher and short stop. Both, Blakemore, who plays third, has some experience. The biggest of the team are shaping up well. Lance Wallace plays first, Tom Jovin and Grant Carrington take second; Howard Hartung, short; Bob Golden, outfield; Bill Smith, first-outfield; Dave Singmaster, catcher-backstop; Bob Gould, catcher; and John Wash, hitting pitcher and clean-up hitter.

The Frosh played one practice game, 22-15 on Saturday, and lost to 5-1, with most of the goals coming on passed balls by the catcher. Wednesday, they played their first League game with Tech, Saturday they play LACP, both here.

TRACK

As usual the Frosh swimming team is looking like a winner. At the Redlands Relays, March 1st, they came in second” to a powerful Pomona team. Today, they have a dual meet at Redlands, 4:00. The big men on the team, bucket feature: Roni in the freestyle; Wally Stoltz in backstroke; BOO Thompson, butterfly; Don Voet, breaststroke; and Bill McLennan and Rony in diving.

TENNIS

The Frosh tennis team shows promise for the coming season. They have won almost all of their practice meets and lost two, giving the team an 11-1 league matches so far. Number one man on the team is ambidextrous John Walsh, who understudied the other five ranked men. In order, are Dave Cohen, backstop; Frank Grose, second; John Burd, Mike Magee, and Marty Carnoy, player-manager. Also on the team are: Bob Sheley, Lou Toth and Pedro Bol.

This wide framework of opportunity is a unique characteristic of a company of General Electric’s
Linksters need scribe badly

Members of the golf team! Do you want fame, glory, the undying acclamation of the student-body? Do you want your exploits to be the topic of breathless conversations? If so, then you need publicity; you need a means of reaching the...
**New Tech Staff**

This issue of the California Tech is the first endeavor of the new staff, under the leadership of Bob Walsh, editor-in-chief. New assistant editors include: Dave Leeson, managing editor; Pat Cole, night; Jim Whittemore, news; Mike Mount, feature; Steve Emanuel, sports; and John Lugo, audience.

**Student Shop**

Applications for membership in the Student Shop are now available from John Conover, Hulker; Andy Ferga, Dalby 25; and Alan Forsythe, Dalby 27.

The Shop accepts members only once during each term; all applications must be submitted immediately to one of the above to be accepted. Both undergraduate and graduate students are eligible.

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**What’s doing... at Pratt & Whitney Aircraft**

Professors practice what
they preach... and vice versa

Following a practice of twenty years, Pratt & Whitney Aircraft will again welcome a group of college professors as members of the engineering staff during the coming summer months.

Last year our “summer professors” represented colleges from coast to coast. They tackled important projects in such diverse fields as instrumentation and vibration, combustion, compressible flow, and materials development. Despite the limited time available to these men, they made significant contributions to our overall effort.

Though it was to be expected that both the company and the participating professors might benefit directly from such a program, the sphere of influence has been much broader. The many students who are taught by these professors during the college year are sharing the ultimate benefits... profiting from lectures that are sparked by the kind of practical experience that can be gained with a recognized industry leader like Pratt & Whitney Aircraft.

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**ATTENTION GRADUATES**

on

**Tues. April 2**

A General Tour of the
JET PROPULSION LAB.

Followed by a free dinner and an opportunity to meet with JPL representatives, is being offered to all gradu­ate students and all students graduating this spring, who are interested in full time employment possibilities at JPL.

For further information phone 54 0-1141 ext. 301 or 325 or contact the student placement office.

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**PRATT & WHITNEY AIRCRAFT**

DIVISION OF UNITED AIRCRAFT CORPORATION

EAST HARTFORD, CONNECTICUT