

202 Frosh Head For Camp

Frosh Courses: 'Big 3' Plus In-Group Culture

BY LANCE TAYLOR

Besides inspiring challenges like memorizing Scripps and Oxy phone numbers and navigating the sickening maze which is Los Angeles, Caltech frosh will face still more problems next week—problems called classes. Fifty units of classes. Three science classes, two humanities classes, and a graphics class.

The graphics class is indescribable, except that it somehow involves drawing. If you can draw, you can draw; if you can't, you get a C. Humanities classes are almost as hard to say something about. They involve things like writing themes, listening to professors, reading books, filling in Finals Books, and so no.

As a matter of fact, both graphics and humanities are in-group classes. They're great for natural born orthographic projection drawers or frustrated humanities majors. For other frosh, about 99 per cent of the class, they are at best spice to the pudding of Science Incarnate. And science is incarnated in the Big Three—Math 1, Chemistry 1, and Physics 1 — "Freshman Mathematics," "General Chemistry and Quantitative Analysis," and "Introduction to Mechanics, Molecular Physics, Heat and Sound."

Calculus and . . .

Most academic of the Big Three is Math 1. It has no lab, more classes, and a fair share of homework for those who care to do it.



Marshall Hall

Subject of Math 1 is calculus, with side excursions into analytic geometry and vector algebra. The book is a Work in Progress by Tech Associate Professor Tom Apostol, which will one day be published as a definitive text for smart college math students. Currently, it is in the form of notes.

Math 1 is organized on the lecture-recitation section-home-work plan. Two days a week, all the freshmen in the class meet in two big sections, and in each section the lecturer tells them what is in the book and much that is outside of it.

At two other times during the week the frosh meet in recitation sections to be assigned homework, to discuss homework, and to have homework graded.

In charge of the recitation sections are TA's—graduate teaching assistants. In charge of the lectures are Doctors Marshall Hall and Brock Fuller, Professor and Associate Professor of Mathematics, respectively.

Math Profs

Dr. Fuller is a Princeton graduate, and came to Tech in 1952. He lives in Altadena, and lectures vividly on epsilons and deltas, the bane of all non-geniuses in the field of freshman calculus.

Dr. Hall is a Yale graduate and author of recondite papers on group theory and such. He has a cutting wit, and woe betide him who makes too many stupid remarks in class.

Pauling and Chem

Chemistry 1 involves six hours a week of lab—three-hour stretches twice — two hours of lectures, one hour of recitation section, and a hypothetical three hours of homework.

For the first two terms Chem 1 uses "General Chemistry," by Tech Professor Linus Pauling as a text, and covers general chemistry. The topics include oxidation-reduction reactions, reaction kinetics, phase diagrams, and similar forbidding subjects. Actually the course isn't too hard, especially if would-be non-chemists (chemists presumably know it all) pay attention in lectures, which form the meat of the course (and the tests).

Lecturer-in-chief is Professor Jurg Waser, who got his Ph.D. at Tech. Waser is a spare-time crystallographer while he isn't teaching frosh, and is president of the American Crystallographic Association. He is a good lecturer, but fast. He puts everything important on the blackboard, and has been known to fill 13 boards in the course of a lecture. He also gives pop quizzes.

About half the grade in chemistry comes from labs. The first two terms involve quantitative chemistry, which means Care and Feeding of Burettes, Pipettes, and Flasks. Dr. Waser is author of the lab notes.

Third term chemistry is Swiftlab, qualitative chemistry under the tutelage of Waser and Professor Ernest Swift, head of the Chemistry Department. Frosh are advised to ask upperclassmen for comments on Swiftlab, carefully ignoring the profanity.

Also involved in Chem 1 are visiting lecturers. These come occasionally to break up the monotony and provide culture. Star

(Continued on Page 2)



President Lee DuBridge meets a group of freshmen at 1958 New Student Camp.

Huge Dance Next Week

The House social chairmen are hard at work in a huge co-ordinated effort to bring around 400 girls to campus for an all-school exchange opening the year's social program next Friday evening, September 30.

Invitations will go to Pomona, Occidental, Scripps, and Whittier Colleges, the nurses at Los Angeles County and California hospitals, and Arcadia, San Marino, and Westridge high schools. The college girls will be freshmen, sophomores, juniors, and seniors and the high school girls probably juniors and seniors.

Each of the girls will be invited to one specific House, and each House is to provide dancing and probably entertainment, but people are to be encouraged to circulate among all seven parties and make this into one big gala affair.

Eating Hours

The hours of the new Chandler cafeteria, for this week and next week, will be 7:00 a.m. to 7:00 p.m.

Address Changed

The new mailing address of the Student Houses is 1201 E. California Street.

Interoffice Memo

4:00 a.m.—John:

Hey, I know it's late, but let's not forget to say something in the rag about getting some good freshman newspapermen to staff our staff. How about "Wanted: Energetic, Dynamic, Dedicated young man to fill executive position."

—tt

4:30 a.m.—Tom:

I think we might attract more with the erudite intellectual approach, like something on the order of "Challenging job for young news analyst interpreting local and national political and social affairs."

—jt

Frosh 'Active,' Not Smarter Reports Miller

This year's crop of 202 freshmen aren't much smarter than their predecessors, but have been considerably more active outside of the high school classroom than recent classes, according to Dr. Peter Miller, assistant director of admissions.

Miller revealed that this year the Admissions Committee was looking for more evidence of "life" in the applicants than is shown in just getting high scores on the College Board exams. The committee feels that the entrance tests now with uniformly high performance among the applicants are no longer very useful in predicting class standings.

This class represents 39 states, including all except Alaska, Arkansas, Vermont, Delaware, North Carolina, South Carolina, Georgia, Idaho, Nebraska, Kentucky and Tennessee. As usual, most are from California—78. Twenty-two per cent live in the Los Angeles area.

Six foreign students are included in the class, from Guam, Japan, England, Turkey, Mexico, and Switzerland.

There are 27 National Merit scholars (as opposed to 13 in the present sophomore class and 32 among the current juniors). General Motors national scholarships have been awarded to seven frosh, the previous Caltech high being five. In all, slightly over 50 per cent of the class will be receiving some sort of scholarship aid.

As usual the majority say they are planning to be nuclear physicists, according to Miller, and as usual they are pretty vague beyond this.

The class of 1964 has set a new high for advance standings granted in math. There will be two full sections placed in Math 1.5 or Math 2. There are only two serious candidates for advance standing in physics, according to Dean Strong, and none in chemistry.

Frank Advice, Having Fun Top Agenda

BY TOM TISCH

Today, as some 200 freshmen, a sprinkling of transfer students, and their faculty and student hosts head for Camp Radford and the 1960 New Student Camp, a new page in the history of Caltech is being written.

For the students, it is the first step on the road to a new and exciting career. For the Institute, has finally come the realization of the first sizable chunk of the \$20 million development program undertaken more than two years ago.

The program at the 1960 New Student Camp will in general follow the procedure that has become standard over the last couple of years.

Keynote speakers will introduce each of the three principal areas of discussion: academics, attitudes, and activities. Then, these keynote speeches will be augmented in discussions involving about eight freshmen, a faculty adviser, and a student counselor.

In spite of the pseudo-somber note introduced by these serious presentations, football, mountain golf, and the annual talent show are sure bets to liven the traditional camp.

Today's afternoon arrival at the camp will be followed by dinner — the first to be served by Saga, the new food organization — and a fireside assembly presided over by Dean Strong, venerable Dean of Freshmen.

Dr. Sharp's "History 3D" speech will highlight the evening. As usual talent practice will carry over into the late evening, much to the consternation of dignitaries who consider it a vile anti-sleep plot.

Friday morning, Dr. Huttenback will talk on "Four Years to Make a Civilized Man." This will be followed by a discussion group centered about the topic of the speech. At the first signs

(Continued on page 6)

Interoffice Memo

5:00 a.m.—John:

Maybe we've overshot a little. After all, at least one editor got there with no previous experience on the paper. It is indeed the resting ground for defeated politicians. Interest and enthusiasm is all that is needed.

—tt

5:30 a.m.—Tom:

Quite right. Let's just say that we're happy to talk with any and all frosh with the slightest interest in or curiosity about devoting a little time each week to writing or layout or headlines or copyreading or pencil sharpening. Free tours given at most any hour by editors John Todoroff and Tom Tisch.

Goodnight, jt

Editorial

The Big ?

Good Morning. So you're on your way to pre-Caltech camp—and you're happy and well fed—but there's something just a little out of place—like the calm is really at the eye of the storm and the edge is 4 years wide, and you hope that the next 3 days will give you the answers.

Here's an answer now. Chances are you've been asking questions, but the answers you've received haven't really satisfied your curiosity. There's a reason for it—you don't yet know what the right questions are, or of whom they should be asked.

Perhaps too, the answers you have received have been the best answers to your questions—but as yet you are unable to appreciate it.

Regardless of whether or not you're in the above predicament, the straightening out of the above confusion is really, as we see it, what the next four years at Caltech are devoted to. In essence you will be learning how to learn—who to ask and what to ask, concerning first of all science and engineering, but also regarding people and society.

Learning how to learn may seem like an awfully slow beginning, but we can vouch for the fact that it takes place in a hurry and continues for a long time—so far, 3 years. Moreover, it can and should cover a wide range of topics.

As Freshmen, this is the first time that most of you have had the chance to do anything you might want to do. Here on the campus and in the Pasadena-LA vicinity are opportunities to be a sports hero, an art worshipper, chances to take out that wicked looking gal, on the remote possibility the scoop won't get back to Mom and Dad, and yes, even write for the campus newspaper.

If you want, you may sleep through your classes (not recommended) or take up the new Caltech game of Petunia Patching (not recommended for thrill-seekers).

All these many things to do are, of course, talked about within the framework of the Caltech science and engineering curriculum. Soon you will have to make a value judgment about the value of studying with respect to these outside interests.

With this in mind, we think it wise to concern yourself with one important question: What are you going to do with your Caltech education?

You may choose the course of knowledge for knowledge's sake, the classic example of which is so-called "basic research." But we do not feel that this alone is enough.

One of the things which we almost inherit from our Caltech education is the responsibility to pass our knowledge along to the succeeding generation, one of the few ways in which an individual can make a real contribution to the course of civilization.

This implies that we couple our fundamental knowledge with a method of transmitting this knowledge, such as teaching, building machines and structures, or designing complicated devices to add to the welfare of people in general.

In spite of the early homework problem, we're glad you're here, and we hope you have a happy and successful next 4 years.

John and Tom

Parking

In case you have been too busy moving in and haven't heard the anguished screams, there are some new campus parking rules. The two most important 1) forbid student overnight parking everywhere except the far corners of Tournament Park and Chester street lots and 2) impose a new penalty of revoking all overnight parking privileges after five campus parking tickets and forcing you to move off campus after six tickets.

The House presidents, we are convinced, are well aware of the pros and cons and the feelings of both students and faculty and have begun work toward a solution to the campus parking confusion that will make everyone happy. They will be meeting with George Green, Institute vice-president, the first of next week.

Meanwhile, we strongly advise everyone to remain calm and go back to unpacking. —jt

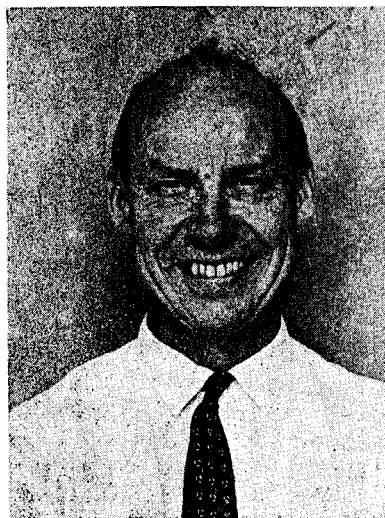
Courses Swift Lab !\$♦?★

(Continued from page 1)

of this troupe is (naturally) Pauling.

PHYSICS IS PHUN

Physics 1 is a recitation section-homework-lab course. Sections meet three times a week, and are treated to lectures, homework assignments, etc., by section teachers, who stick with the pretty much spontaneous. After the first month or so, students dream up their own experiments



Jurg Wasser

and then do them. The lab grade depends on ingenuity, resourcefulness, tact, and the TA.

First lecture: To Every Action . . . " will be given by Professor Richard Sutton, who is in overall charge of the course. Sutton gives some of the general lecture group all year, day in and day out. Teachers are either professors or grad students.

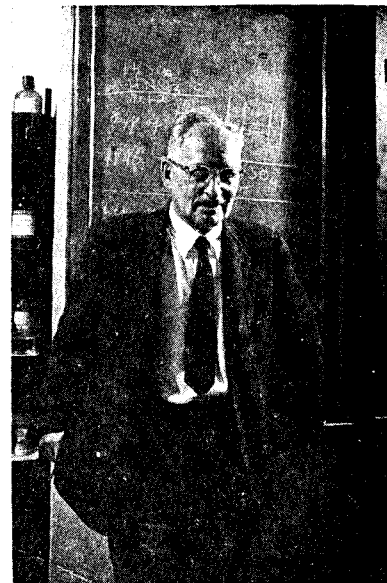
Also included in the course are weekly labs and every other weekly lectures: The labs are tures and will probably teach one section. He is also in charge of Caltech's relations with high schools, and has received a parcel of awards in physics education.

FRANK ISN'T FUN

The text for Physics 1 is Nathaniel H. Frank's first installment on a large collection of boring physics books. "Introduction to Mechanics and Heat" is the title. Also used in the course are notes on relativity, written by TA E. R. Huggins, wave notes, written by Sutton, and possibly other notes to be written during this year. Syllabus of the course is roughly mechan-

ics, with additions like relativity and a little quantum mechanics.

And a little quantum mechanics is enough, most frosh will discover when they start taking Physics 1, as well as the other Big Two. Mostly, the Big Three are a lot of work and a lot of learning. Most people feel pretty good when they get through them.



Richard Sutton



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California Tech

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

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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,

Football Future Looks Bright; Six Returning Starters Add Zip

BY PETE METCALF

Caltech's football future looks brighter than it has in several years as 12 lettermen showed up for practice in the two-week practice period before the beginning of classes. Under the direction of head coach Bert LaBrucherie, the team has been preparing for the season's opener against Riverside next Friday. The 12 lettermen, all of whom

are Juniors, included six of the men who started against Claremont-Harvey Mudd at the close of last year's season. Johnny Arndt, Vince Hascall, and Ed Cline were especially good last year and look as if they have profited greatly by the extra year's experience.

This year's backfield looks great with at least two good men for every position. Frank Mar-

shall understudied Mel Holland last year, but will be hard pressed by Dave Barker who played frosh last year and has looked great in practice this fall. Charles McBurney, also up from the frosh, looks as if he has a great deal of talent as quarterback, but seems short on experience.

Little needs to be said about left half Vince Hascall. Vince started most of last year's games and scored the winning touchdown against CHM with a 96-yard kick-off return. Carlos Johnson, up from last year's frosh, has looked very good in the left half spot, and Larry Seeley, although completely inexperienced has performed creditably. Ed Cline started at fullback last year, and although small, is prospectively one of the best in the league. Evan Hughes started as end, fullback, and guard last year and has also been practicing in the fullback position.

Ed Miller plays right half, and started in that position last year. Dave Grimes understudied him last year, and is again working out for that position. Chuck Ryavec was a question mark as the paper went to press, since he has yet to come out for practice, but was positively tremendous on last year's frosh team. When he does join the team, he will add a great deal of strength at right half.

The line, on the other hand, lacks depth. John Arndt, of course, looked great in practice this year, but he is the only right end that we have at the present time. Last year he started and made such a good showing that he has a good chance to receive all-conference honors this year.

Pete Rux lettered at left end last year, but was injured early in the practice session and will not be able to play for the first few games. Bill Hassenzahl will undoubtedly fill in during the interim.

Carl Baum started at tackle last year and will probably do so again this year. Ross Carder was a very good center as a frosh, and has been working out at tackle this year.

Jack Arnold and Bill Francis, both sophomores, have looked very good at guard. Joe Bockledge was last year's starting center, but has not been out for practice yet.

Bob Williams and Rick Foster lettered at guard and center, respectively, and should see a lot of service this year.

Sophomores Frank Vlach, Truman Seely, Ron Keritz, and Sig Hoverson have also been working out in the line, but it is difficult to tell what their prospects are since they have had so little experience playing varsity football.

The team plays its first game against Riverside on Saturday, October 1, at 2:00 p.m., at Riverside.



Beaver Chips

By Noll

A Freshman's Garden of Versus

The common cry of most schools that are poor in athletics is that they are "low pressure," putting athletics in their "proper perspective." Caltech differs from most of these schools in that "low pressure" and "proper perspective" are actually correct evaluations of Beaver sports.

This is not to say that Caltech athletes don't want to win — on the contrary, Caltech teams are highly respected for their tough competitive spirit and determination. Chuck Coker, Occidental College's famous track and football coach, said last year at the Caltech Sports Banquet that his Tigers always admire the way Techmen provide such tough competition in spite of their lack of previous experience and their tough academic schedule. It is generally conceded that Caltech students do not have the experience and ability to compete with the schools that they do compete with. Yet, invariably, Caltech teams pull some pretty big upsets every year, and even win some conference championships.

Caltech competes in the six-member Southern California Intercollegiate Athletic Conference, affectionately known as the SCIAC, in football, cross-country, water polo, basketball, tennis, track, baseball, and swimming in approximately that order. We also belong to intercollegiate soccer golf and sailing leagues. Last year, a better than average one, we won our second straight conference swimming championship, finished second in cross-country to nationally powerful Occidental, second in tennis, third in water polo. Only the track team was last.

Prospects for this year are very bright, with two of Caltech's most athletic classes in history, this year's juniors and sophomores, playing together on the varsity level. Seven of last season's varsity starters in football were sophomores, and now as juniors promise to form the nucleus of a solid squad. The cross-country team finished second last year, using five sophomores, all of whom have returned to wage the wars anew. The water poloers have two All-Conference players back, one a transfer student from Oxy, who should lead the team to a high finish.

Almost all Caltech athletes are developed right here by our excellent coaching staff. Men who were actually unathletic in high school have many times made the starting teams at Caltech. All this means that every frosh should think carefully about going out for a frosh team. Frosh sports are typically low pressure—we play for fun—and very enjoyable. Frosh footballers haven't won a game in God-knows-when, but no one who goes out fails to have a swell time. Frosh football coach Ed Preisler is undoubtedly the lowest pressure coach in the world, and one of the nicest guys you'll ever meet. And ditto for frosh and varsity swimming and water polo coach Webb Emery. So try an intercollegiate sport on for size — you won't regret it.

Beaver Poloists Swipe Hameetman

Caltech will undoubtedly draw an NCAA investigation for its latest athletic coup. All-Conference forward water polo player Fred Hameetman, formerly of Occidental College, enrolled at Caltech this fall, and will run out his remaining year of eligibility playing for the Beaver poloists. Hameetman was one of the conference's top scorers last year, combining a strong arm with excellent swimming to become a fine player.

On the Occidental-Caltech 3-2 plan, Hameetman will graduate with this year's juniors as a Civil Engineer.

Waterpoloists Look Strong Practice Begins Sept. 26

The return of a host of Varsity Lettermen and the addition of an All-Conference Varsity Water Polo team all point to the strongest team fielded in years.

Bob Ruby, All-Conference forward, and Tom Tisch, two-year letterman guard, will head up the group of returning lettermen. The water polo squad, which boasted a third-place finish in the conference last year, is also looking forward to the presence of Fred Hameetman, 3-2 transfer student from Occidental, who made the All-Conference squad as a forward for Oxy last year.

Missing from last year's starting squad will be Dave Tucker

and Don Voet, who have since graduated. The holes left by them in the defensive line-up will be filled in by other returning members of the squad, notably Gary Tibbetts, Russ Russell, and sophomore Larry Dabek. Roger Bland, first-string last year, and sophomores Bruce Chesebro and Pat Manning are expected to add considerable offensive strength to the team.

Freshman water polo is as usual completely unpredictable. The fact that there are seven men to a team, and the information that few students who come to Caltech have ever played water polo, is cited to interest prospective water polo players.



ONCE MORE UNTO THE BREACH, DEAR FRIENDS

Today, if I am a little misty, who can blame me? For today I begin my seventh year of writing columns for the makers of Marlboro Cigarettes.

Seven years! Can it be possible? It seems only yesterday I walked into the Marlboro offices, my knickers freshly pressed, my cowlick wetted down, my oilcloth pencil box clutched in my tiny hand. "Sirs," I said to the makers of Marlboro—as handsome an aggregation of men as you will find in a month of Sundays, as agreeable as the cigarettes they make—mild yet hearty, robust yet gentle, flip-top yet soft pack—"Sirs," I said to this assemblage of honest tobaccoists, "I have come to write a column for Marlboro Cigarettes in college newspapers across the length and breadth of this great free land of America."

We shook hands then—silently, not trusting ourselves to speak—and one of the makers whipped out a harmonica and we sang sea chanties and bobbed for apples and played "Run, Sheep, Run," and smoked good Marlboro Cigarettes until the campfire had turned to embers.

"What will you write about in your column?" asked one of the makers whose name is Trueblood Strongheart.



"About the burning issues that occupy the lively minds of college America," I replied. "About such vital questions as: Should the Student Council have the power to levy taxes? Should proctors be armed? Should coeds go out for football?"

"And will you say a kind word from time to time about Marlboro Cigarettes," asked one of the makers whose name is Honor Bright.

"Why, bless you, sirs," I replied, chuckling silverly, "there is no other kind of word except a *kind* word to say about Marlboro Cigarettes—the filter cigarette with the unfiltered taste—that happy combination of delicious tobacco and exclusive selectrate filter—that loyal companion in fair weather or foul—that joy of the purest ray serene."

There was another round of handshakes then and the makers squeezed my shoulders and I squeezed theirs and then we each squeezed our own. And then I hid me to my typewriter and began the first of seven years of columning for the makers of Marlboro Cigarettes.

And today as I find myself once more at my typewriter, once more ready to begin a new series of columns, perhaps it would be well to explain my writing methods. I use the term "writing methods" advisedly because I am, above all things a methodical writer. I do not wait for the muse; I work every single day of the year, Sundays and holidays included. I set myself a daily quota and I don't let anything prevent me from achieving it. My quota, to be sure, is not terribly difficult to attain (it is, in fact, one word per day) but the important thing is that I do it *every single day*. This may seem to you a grueling schedule but you must remember that some days are relatively easy—for example, the days on which I write "the" or "a". On these days I can usually finish my work by noon and can devote the rest of the day to happy pursuits like bird-walking, monopoly, and smoking Marlboro Cigarettes.

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The makers of Marlboro are happy to bring you another year of Max Shulman's free-wheeling, uncensored column—and are also happy to bring Marlboro Cigarettes, and for non-filter smokers—mild, flavorful Philip Morris.

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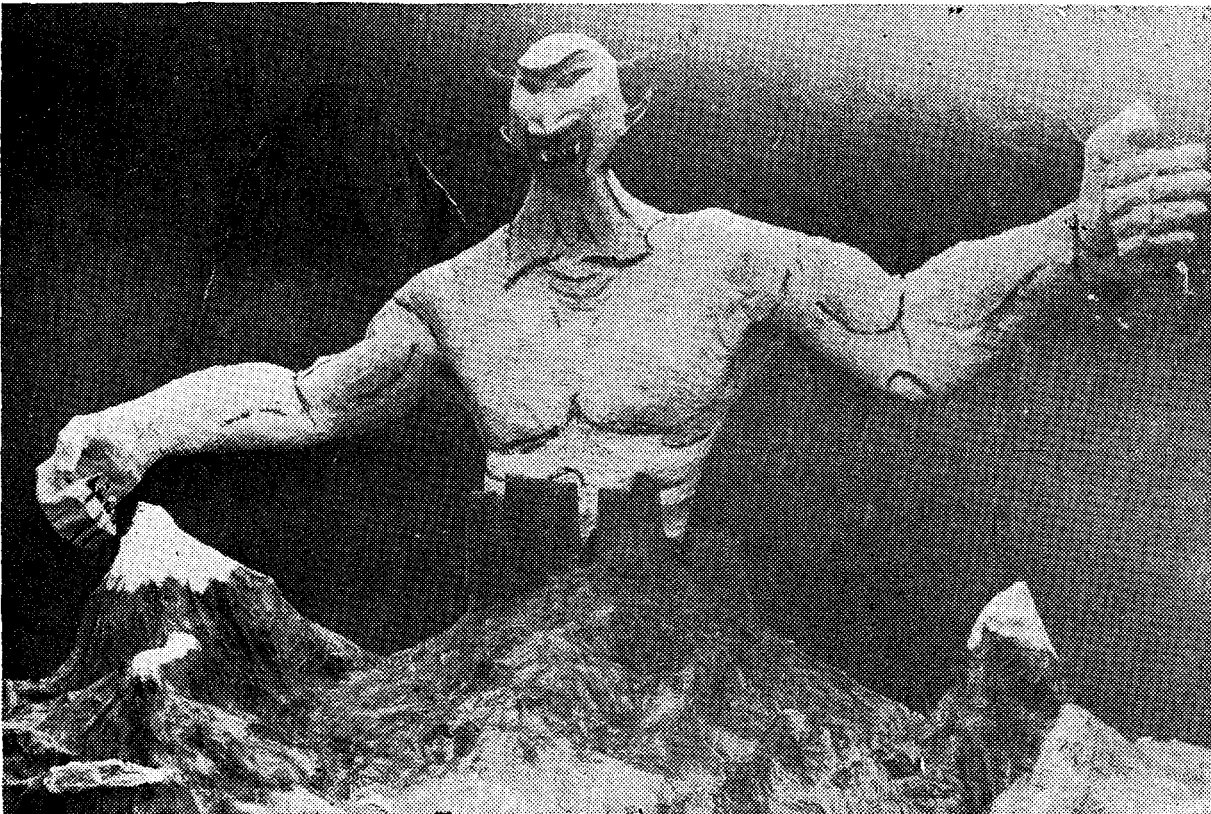
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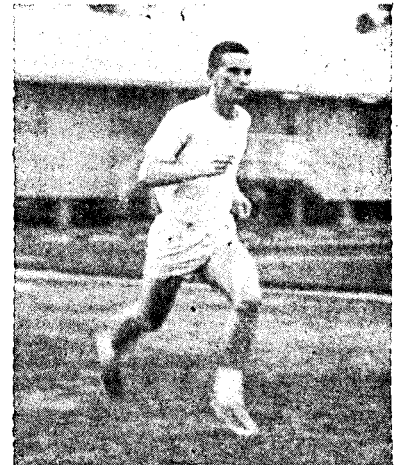
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This Is Student Life At Tech



The monster from "Night on Bald Mountain" dominates the Ricketts courtyard for their Inter-house Dance setting—1958.



Dick Tuft, junior, is the star of varsity cross-country and track squads.



The Y Leaders of America program brought Dr. James Conant, retired president of Harvard, to campus for a week of speeches and discussions.



The Glee Club toured California during spring vacation and sang for the closing ceremonies of the Winter Olympics.



Soccer is another sport in which Caltech usually fields a surprisingly strong team.

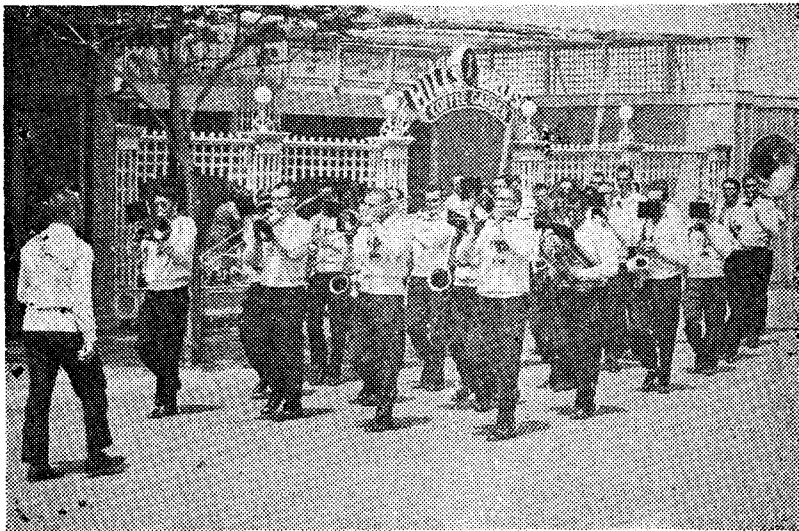


The Y organized a folk-singing and folk-dancing festival, which ended with this informal songfest in Ricketts House Lounge.

Pictures From Last Years Files



Tami Kirk (a JPL secretary) and Art Robinson in a scene from annual ASCIT play. Last spring it was "Dark of the Moon."



The Band marches down street at Disneyland.



Officer Newton, protector of law and order, also is the campus bard.



The Dave Brubeck quartet was featured at last fall's annual ASCIT-organized jazz festival.



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Trustees Designate New House Names

BY ROGER NOLL

Caltech's three new Student Houses opened for business this week with over 200 residents impressed by their modern decor and roominess. The Houses, formerly A, B and C, are now Page House, Lloyd House and Ruddock House, respectively. On the San Pasqual side of the new Houses is the new Greasy, christened the Harry Chandler Memorial Cafeteria.

Page House was named after James Page, president of the Board of Trustees from 1943 to 1954. Page is one of the most remarkable men in Caltech and Southern California history, as he has taken part in widespread civic and business projects. He has been the director of the Southern California Edison Company, the president of the California Bank, the treasurer of the Huntington Library and Art Museum, the director of Union Oil Company, the secretary of the Los Angeles Harbor Commission and a trustee of the Good Samaritan Hospital.

Ralph B. and Lulu Lloyd were honored by the Lloyd Foundation when the foundation donated Lloyd House in their name. Lloyd was eminent in California business, being the director of Security-First National Bank and Western Oil and Gas Company, a member of the Petroleum Industry War Council, 1941-1945, and an Associate of the University of California, aside from being a Caltech Trustee.

Ruddock House was named in honor of the present president of the Board of Trustees, Albert B. Ruddock. Like the others, Ruddock has been prominent in Southern California for many years. Starting as a member of the American embassies in Peking and Berlin, Ruddock went on to become the president of the Hollywood Bowl Association, Los Angeles County General Hospital, Huntington Hospital, Security-First National Bank and the County Museum. He has been a Trustee since 1938, and succeeded Page as president in 1954.

The new Greasy was donated by the Times-Mirror Publish-

ing Corporation, the Pfaffinger Foundation and the Chandler family in honor of the famous newspaperman, Harry Chandler, publisher of the Los Angeles Times until his death in 1944. He was also a Caltech Trustee, as is his son, Norman Chandler.

Page and Ruddock Houses were named after former Trustee presidents by the Board of Trustees this summer when it became apparent that no single big donation would be made toward the building of a new house. About half of the cost of the new houses came from small donations, and the other half from Institute funds, according to Dean Foster Strong. Although the development program was thought to be, if anything, oversubscribed, recent increases in building costs have forced the Institute to dip into its own funds to finish the student houses.

Lloyd House is the exception, being donated by the Lloyd Foundation several months ago.

Glee Tryouts Tuesday Eve

Glee Club president George Muenich reminds freshmen that tryouts for positions in Caltech's famous singing group are still scheduled for next Tuesday, 7:15 p.m. in Dabney Hall Lounge, and Thursday at 11:00 a.m., also in Dabney Lounge.

"Here's your chance to relax and enjoy yourself in some pleasant evenings, singing with a congenial group," Muenich advises. "No previous experience is necessary," he adds, "but — you don't get anywhere by not trying out."

Band Slates Practice Next Week

The Caltech Band will have its first rehearsal of the season Thursday evening, September 29, at 7:30 in Culbertson Hall. All undergraduates, grad students, and faculty members interested in playing band music are urged to attend. Any freshmen who have had previous experience playing in high school bands and orchestras will be especially welcome.

During the year, the band will be featured in a series of concerts given on campus. It will also provide music for many of the football and basketball games. Other appearances will be scheduled from time to time

throughout the year.

John C. Deichman will return for his fifth season as director of the Caltech Band. He is one of the select group of men who can truly be called a musician's musician. As well as holding an important position with the Los Angeles City schools, he is active in many other musical organizations. He directs the Rams' football band, and served as band coordinator at the Winter Olympics in Squaw Valley last February.

For further information, see Band Manager, Dave Kauffman, in Blacker.

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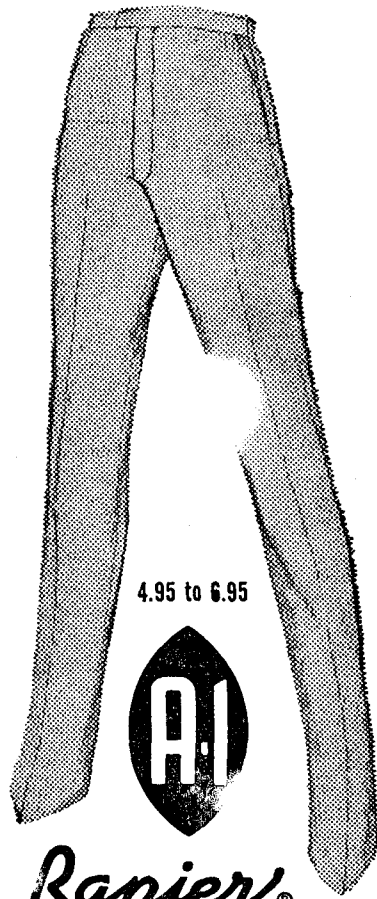
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Student Camp

(Continued from page 1)

of a wandering discussion, the group will break up to entertain themselves with volleyball and ping-pong.

Following lunch, Dr. Norman Davidson will shed some light on "The Education of a Scientist." This will in turn be followed by a discussion group on academic requirements and procedures of the Institute. While allaying the fears of the new students, the discussion group will most likely emphasize the importance and need for a real endeavor in the academic area.

Friday evening's program is the granddaddy of them all, presenting the "Grand Amalgamated Concert and Talent Show."

Following the talent show, Dr. DuBridge will issue "An Invitation to Caltech," in his traditional welcome to all new students.

Saturday's final morning session will be keynoted by Professor Owen, speaking on "Technomanship." Discussion groups followed by lunch, and a little ritual called "cabin clean-up" are then all that remain for the 1960 Student Camp.

Nash's