Frosh Courses: ‘Big 3’ Plus In-Group Culture  
BY LANCE TAYLOR

Besides inspiring challenges like memorizing Scraps and Oxy phone numbers and navigating the stickering mainstays like 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 indispensable, except that it somewhat 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 forms.

As a matter of fact, both graphics and humanities are in-group classes. They’re great for natural-born oriental/projection drawers or frustrated humanities majors. For other frosh, about 99 percent 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—“Frosh-Mathematics,” “General Chemistry and Quantitative Analysis,” and “Introduction to Mechanics, Molecular Physics, Heat and Sound.”

—CAL and...  

More explanation of the Big Three: Math 1. It has lab, memo classes, and a fair share of homework for those who care to do it.

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

In charge of the recitation sections are TAs—graduate teaching assistants. In charge of the lectures is none other than Marshall Hall and Irwood Fuller, Professor and Associate Professor of Mathematics, respectively.

Math Profs

Dr. Fuller is a Princeton graduate, and came to Tech in 1932. He lives in Pasadena, and the lectures vividly on epistles and Mach I. He is one of the best of all non-geeks in the field of freshman calculus.

Dr. Hall is a Yale graduate and one of the authors of mete papers on group theory and such. He has a cutting wit, and woe betide him who likes to retaliate in some stupid remark in class.

Painting 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 bi-weekly) 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 lecture topics include: oxidation-reduction reactions, re-action kinetics, phase diagrams, and similar forbidding subjects. Actually the course isn’t too hard, especially if you would read chemists (chemists presumably know it all) pay attention in lectures and get a firm grasp of the course (and the tests).

Lecturer-in-chief is Professor Jurg Waser, who got his Ph.D. at Tech. Waser is a space-time crystallographer whose he isn’t teaching fresh, and is president of the American Crystallographic Association. He is a good lecturer, but doesn’t have enough everything on the blackboard, and has been known to fill all hours in the course lecture. He also gives pop quizzes.

About half the grade in chem- istry 1 depends on the bonus. The two terms involve quantitative manipulation both in lectures and lab. Calculus and Feeding of Burettes, Pipettes, and Flasks. Dr. Waser is the author of lab notes.

Third term chemistry is Swith- lab, qualitative chemistry under the tutelage of Waser and Professor Knittel, head of the Chemistry Department. Frosh are advised to read the book, for the men for comments on Swithlab, carefully ignoring the profanity.

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

Frank Advice, Having Fun Top Agenda  
BY TOM TICH

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 report on the history of Caltech is being written.

For the students, it is the first step on the road to the most exciting career. For the Institute, it has finally come the realization of the first slant club 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 procedures in previous years, but will become standardized over the last couple of years.

Keynote speakers will introduce each of the three principal events: an orientation; academics; attitudes, and athletics. These keynotes speeches will be augmented by discussions on the future of the freshmen, a faculty adviser, and a student council.

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 calciferous campfire.

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

Dr. Sharp’s “History 35” 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 antisleep plot.

Friday morning, Dr. Witten- back will talk on “Four Years to Make a Civilized Man.” This will be followed by a dissertation about the future and the topic of the speech. At the first sign

(Continued on page 6)
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 calf 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—how 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 worshiper, 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 the 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 few 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.

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Page Three

Thursday, September 22, 1960

Football Future Looks Bright;
Six Returning Starters Add Zip

BY PETER 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 L. Brucker, the team has been preparing for the season's opener against Cal State Los Angeles for the past month.

The 12 lettermen, all of whom are juniors, included six of the men who started against Chapman-Harvey Studd at the close of last year's season. Johnny Cline, John Ed Cline were especially good last year and look as if they have profited greatly by the extra year's practice.

This year's backfield looks very strong with优质 players at every position. Frank Marhall understudied Mel Holland last year and will be pressed by Dave Barker who played fresh last year and has been developed by Coach Charles Meltonary, also up from the fresh, looks as if he has a good chance to be the starting quarter-back, but seems short on experience.

Little needs to be said about left half Vince Hascall. Vince started most of last year's game and scored the touchdown down against CMS with a 90-yard kick-off return. Carlos Johnson, up from last year's fresh, has looked very good in the half back spot, and Larry Seely, although he was thrown into the practice late in the fall, seems ready to go.

Senior Vince Myrick is expected to be a pace maker this year.

The makers of Marlboro are happy to bring you another

* * *

"Sirs," I asked one of the makers whose name is Trueblood Strongheart.

"About the burning column," I said. "I am a mere high school student, but you will remember that we have the power to levy taxes?"

"I do," he replied. "I write for Marlboro Cigarettes."

"About the burning column," I made.

I looked at the cigarettes they make—mild yet strong, yet not terribly difficult to attain (it is, after all, America, and we have the power to levy taxes). But the important thing is that we have at the present time 11 all-conference honors playing for the Beaver polioists. Hamee was more than a good center as a freshman, and has been working out at tackle this fall. Jack Arnold and Bill Francis both sophomores, have looked very good at guard. Joe Rux lettered at left end last year, but was injured early in the practice season and will not be able to play for a few games. Hill Hassenzahl will undoubtedly fill in during the interim.

Carl Baum started at tackle last year and will probably do so again this year. His brother Curtis was a very good center as a freshman, and has been working out at tackle this fall. Jack Arnold and Bill Francis both sophomores, have looked very good at guard. Joe Rux lettered at left end last year, but was injured early in the practice season and will not be able to play for a few games. Hill Hassenzahl will undoubtedly fill in during the interim.

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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—1959.

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

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

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

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

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 ASCTT play. Last spring it was "Dark of the Moon."

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

The Band matches down street at Disneyland.

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The Campus Barber Shop

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8 a.m.-5:30 p.m. Monday thru Friday
Trustees Designate New House Names

BY ROGER NOLL

Caltech's three new Student Houses opened for business this week, impressing their residents with their modern decor and roominess. The Houses, formerly the offices of the Times-Mirror, are the new Page House, Lloyd House and Ruddock House, respectively. On the San Pasqual side of the new Houses is the new Greaty, christened the Harry Chandler Memorial Cafeteria.

Page House was named after J. Paine Page, president of the Board of Trustees from 1913 to 1934. Page is one of the most respected 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 Houses 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 Peshawar, 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 Publishing Corporation, the Paffinger Foundation and the Chandler family in honor of the famous newspaperman, Harry Chandler, publisher of the Los Angeles Times until his death in 1941. 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 Muench reminds freshmen that tryouts for positions in Caltech's famous singing group are still scheduled for Thursday evening. 7:15 p.m., in Dabney Hall Lounge, and Thursday at 1100 a.m., also in Dabney Lounge.

"Here's your chance to relax and enjoy yourself in some pleasant evening singing with a congenial group," Muench 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 28, at 7:30 in Caltechbon Hall. All undergraduates, grad students, and faculty members interested in playing band music are urged to attend. Any fresh men 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. Delchian will return for his 46th 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 Kaufman, in Flicker.

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