Amendment Passed By Students
ExComm Created By Proposal
Four amendments to the Administration Undergraduate, passed by the student body in Tuesday's special election. The amendment to the President in Council by establishing an Executive Committee to consider policy and longrange problems and by redistributing the officers and their duties within the Board of Directors.

Appointment of the Head Yeaf to Business Management, California Tech, and Editor and Business Manager of the Big T by the BOD is also provided for in the new set-up.

Official election results showed a total of 220 votes were cast, 198 in favor and 38 opposed to the ASCIT reorganization, 192-76 on the Head Yeaf Leader proposal, 191-75 on the California Tech-Rutgers Management amendment, and 104-60 on the Big T change.

Elections for the officers were held this morning in California Hall. Election of the new officers will take place on February 27.

ASCIT officers to be elected include President, Vice President, Secretary, Treasurer, Activities Chairman, Business Manager, Adjunct Chairman, and Representative at Large. In addition the Editor of the California Tech and the Secretary of the Board of Control, a new office created by the amendment, will also be chosen this week.

Campaigning for the part of the nominees will begin Monday, February 23. The famous Blue and Gold card will be on campus, and run candidates' statements in next week's issue.

It Can't Happen Here
Jobs Gained By Initiative; No Silver Platter Deals
By Brad Efron

Hypothetical Scene: We see a common college student, still able to slip
ping down the Olive walk, perusing a familiar list. frantic Joe Clark.

Techman: Ladedadedadeda . . .

Doc Clark: Young man (uproariously), what are you doing in my dorm?
Techman: Oh it’s you again, Doc. Now if you’ve told me once I’ve told you a thousand times, don’t bother me about a summer job until school’s out next week.

Doc Clark: Please young man, pretty please, Roomee Whoofee is bounding me to death for someone to pick up and chop down their Hawaiian plant for the summer. They don’t care about transportation or anything, so long as how’s he a Techman. Name, college, major, grades, and hours and house and gaurentee regular allowance and wage...

Techman: That’s enough, Doc. This is no better than Grand Central or IBM or Westing-

house offered. Sorry, Say, why don’t you try another notice on the bulletin board? Might get someone this time. I have to be slipping along now, or I’ll miss Geology Club.

Doc Clark: But young man, young man!

Techman: Ladedadedadeda . . .

Unfortunately this scene is deplorably hypothetical. The Placement Service doesn’t find jobs for anyone, but rather helps Tech students to find their own. It is the real-life Joe Clark, “We don’t give anyone a job on a silver platter”.

Initiative is up to the individ-

ual, and now it is shore too soon to start initilating if you want someone to do this summer work. The Placement Service at 9 a.m. is available to help in finding who to talk to and how to meet them. The office, open during regular school hours, is on the North first floor of Throop.

Write To Congress Advises Randall
Economist Impressed By Students;
Discusses European Achievements

“Economist done his work in the common market and eco-

nomic integration of Europe. Said Randall, “Ten years ago I could not believe that the com-

mon market was possible. It’s a modern miracle. These men are going to change the whole picture of

A New European Union. By Ivo De Graaf, Brussels, Belgium.

Economist Impressed By Students;
Discusses European Achievements

“The student body ought to be mighty proud of good citizens,” said Clarence B. Randall during his visit to Caltech this week. “There’s a great inven-

tion called the mail. Randall was apparently pleased with the interest shown for participation in extra-
curricular and service activities.

Dr. Hallett Smith will bring up questions during his two-day stay under the leadership of the

Caltech's Dr. Hallett Smith. Students are interested in a panel discussion moderated by Dr. Theodore Greene during his two-day stay under the leadership of the Lea-

ders understand by the knowledge and under-

standing of economic questions in the world. He compares with the Smoak's view. A great un-

integrated, Social dancing and a bon-

fide complete the evening.

On Sunday morning three fac-

ulty members and four students will discuss the important ac-

complishments of the conference.

ASCIT Awards Keys, Scrolls
The ASCIT Honor Point Committee this week selected 19 students to receive Honor Keys. In addition, 22 men were award-

ed Honor Certificates.

Twelve juniors competed for the Travel Fellowships for travel abroad during the coming summer. The awards were announced last Friday. The

thirteen juniors have been nam-

ed winners of Junior Travel Fellowships for travel abroad during the coming summer. Three winners are to be named.

I think the consensus of the group was that it's a great innovation. I also attend meetings of the cabinet and national security council to keep informed. I take part of the burden off the shoulders of the President.

Three Win Travel Prize
Three juniors have been nam-

ed winners of Junior Travel Fellowships for travel abroad during the coming summer. The awards were announced last Friday. The

thirteen juniors have been nam-

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SUMMIT CONTROVERSY

The agenda for Russia's proposed summit conference remains a mass of controversy with the sole acceptable negotiation topic being measures to prevent surprise attack. Russia wants a nuclear weapons ban; the United States refuses unless nuclear production is also banned. Russia wants a nuclear-free zone in Central Europe; the United States is afraid that this would neutralize Germany and force American troops out of Europe. The United States wants Germany unification, while Russia says it wants only agreements between the two German governments. The United States asks for a free Eastern Europe, but Russia says no. Russia links the common desire for freedom of space to nuclear bans and disarmament and hopes for free trade in strategic goods to the Soviet bloc. The United States opposes such free trade.

UNITED ARAB REPUBLIC

Egypt's Nasser will have virtually dictatorial powers in his new "United Arab Republic," where he appoints and defines the power of ministers and legislators and heads the one national political party. Yemen alone has thrown off the general Arab drift toward Nasser's Arab unity program and offered federation with the "Republic" if she can keep her king. Israel and the West see Nasser regaining power he lost when Israel attacked Egypt. Even though he is pro-Soviet, he will dissolve Syria's Communist Party as he has already done in Egypt.

TUNISIAN VILLAGE BOMBED

Tunisia's ambassador Mongi Slim has taken the French bombing of a Tunisian village on the Algerian border before the UN Security Council and will present an act of aggression. The French states that the village was bombarded to discourage Algerian rebels from attacking across the border.

The United States is especially worried about the repercussions on African nationalism and on the moves which Russian propaganda and foreign policy might take.

SPACE COMMITTEES

Congress gladly gave the President 1.3 billion dollars more for defense this year and approved of Eisenhower's Advance Research Projects Agency though allowing it non-military space control for one year only. The new agency created jointly by President Eisenhower and Defense Secretary McElroy will be headed by Roy Johnson, a vice-president of General Electric.

In the administration's new unification of the space effort, Dr. James Killian was asked to lead a space survey and William Holiday was appointed Director of Guided Missiles. Meanwhile, the Senate set up its own committee on space.

(Continued on page 3)

A message to
Graduating Seniors and Candidates for Advanced Degrees

PHILCO CORPORATION

Government and Industrial Division

activated its new research and development facility on the San Francisco Peninsula in March, 1957. This facility is PHILCO's

WESTERN DEVELOPMENT LABORATORIES

dedicated to research and development of electronic and electromechanical systems in the fields of:

• Radar and Tracking
• Advanced Communications
• Digital Computers
• Systems Analysis and Integration
• Reliability
• Field Instrumentation and Testing

Our new, permanent, modern laboratories under construction in Palo Alto, California will be ready for occupancy in April.


Career opportunities with

PHILCO

WESTERN DEVELOPMENT LABORATORIES

806 Chestnut Street
Redwood City, California

(Continued on page 3)
Opinion

Conquest Of Space Not Mere Stunt

By Howard Weisberg

It looks like the United States is hot on sending a rocket to the moon . . . before the Russians of course. This is viewed by many of the congressmen, administrators, scientists or military men who run our rocketry programs as a propaganda move, necessary to improve U.S. prestige, but still mere propaganda.

Actually, however, a cursory examination of the facts reveals many excellent reasons for going ahead on what the Pasadena Star News and the Saturday Evening Post are already calling "The Conquest of Space."

Basic Research

Science will benefit from interplanetary research. Data about cosmic rays, facts about the planets, possible discovery of new life-forms, and data from astronomical observations made from outside the atmosphere, will make obvious contributions to physical knowledge. In fields where current theory is based on unproven conjecture, availability of concrete data may well lead to new insights and radical changes in theory. Space travel may turn out to be one of the greatest projects in the history of basic scientific research.

In technological fields there are numerous possibilities — weather control to name one. Judging from past technological history, one can expect plenty of other practical applications from the new knowledge.

Turning to the military field, future possibilities are even more obvious. Viewed in the light of the strategic policy of Massive Retaliation, possession of the moon takes on urgent value.

The general idea is that if our Side has rockets based on the moon, then the Other Side will not attack, for if they did, they would be wiped out on earth, a little later they would be wiped out in turn by our moon-based rocket fire.

Strategic Advantages

It appears that a moon base, once set up, will possess tremendous strategic advantages. It is much easier to send a rocket from the moon to the earth than from the earth to the moon. In a vacuum a near miss by even a powerful weapon would be harmless, so counterattacks will require great accuracy. A moon base will always face the earth, making observation easy. Or on the other hand, launching bases could be built on the far side, always out of view. Due to the earth's rotation and possible limitation of earth-bound observation stations to one hemisphere, tracking objects from the earth will be a difficult problem. At any rate, it will be quite a trick to detect an object with a cross section of one-half square meter at a distance of 200,000 miles. A little more thought leads to unending speculation about re- cognizance satellites, anti-satellite satellites, lunar wars and the like. Much of this may be realized in the next few years.

Jealous Rivalry

Ideally, space development should be an international venture, run by the United Nations, but it is probably already too late for any such agreement, and we can look for the same kind of jealous rivalry that has characterized human ventures outside the atmosphere, will lead to new insights and radical projects in the history of basic scientific research.

The main point brought forth by proponents of the freshman dorm idea is the reputed success of the system at other schools. This is refuted by more than one recent graduate, however, particularly by the one man who can rightly claim experience with both systems. Why ban the freshmen from the experience of the student houses at the stage when they can most profit from it? Why give them time to become "out of it"? Why require freshmen to learn broad subjects and social niceties from other freshmen or from "house mothers"? Freshmen don't learn from other freshmen — they learn from faculty and upperclassmen.

This is our considered opinion that the student houses are among the best things our college can boast, and most worthwhile experiences available anywhere. There have proven their worth to those who have experienced them, and the critics concentrate their efforts on this one weakness, in particular the drawing of the freshman, colorless academic program.

The OUTSIDE WORLD

(Continued from page 2)

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A Tasteful Experience

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California Near Lake
In two weeks we shall vote for new ASCIT officers, and once again we shall undoubtedly reconfirm our mass conviction that the healthy and conservative ex­troverses with loud voices and sterile imaginations shall indeed inherit the earth.

Today, if you are foolish enough to wander towards Cull­erton, you will be treated with a few minutes of triteness from each nominee and his nominator. The primary purpose of this ritual seems to be to inflate the egos of the several house pres­i­dents and the other "prominent men about campus" who will be asked to nominate the various candidates.

Campaign Speeches Empty

Next Thursday you will have the pleasure of going intellectually blind while reading the statements of the various candi­dates in the California Tech. If they all seem the same to you, don't be surprised. They start out by paraphrasing that part of the By-Laws which deals with the duties of the various officers. Then they list the many offices which they have held in the past (this is supposed to indicate that they have experience—of course they never mention what they actually did in the job, what ex­perience they actually gained); they list their many activities (this indicates that they are ac­tive "doers"—they don't sit and think or anything nasty like that); they list their many laurel wreaths (I have a letter in foot­ball, so obviously I would make a good officer.) The statements end with a nebulous paragraph exuding "sincerity" and "enthusiasm.

Some Just Drip

Every now and again some highly imaginative candidate will start out dripping with enth­usiasm instead of ending with it. Some neglect to discuss the duties of the particular office. Some just drip through the whole statement. And on rare occasions, someone will break the pattern altogether and launch into a native discussion in two hundred words or less, straight out of Hobbes or John Locke on the virtu­ous government or of honesty. (Vice­presidential candidates are par­ticularly addicted to honesty.)

Conspicuously lacking is any discussion or any opinion on the problems that will face the ASCIT organization in the com­ing year.

Never an Opinion

Some candidates will discuss the duties of the particular office which they are seeking. But, in past years, they have hardly ever expressed any ideas on how to carry out those duties better than they had been carried out by the incumbent. They have never expressed any opinions on how to improve the caliber of the work of the office.

While some rare souls have seen fit to discuss the virtues of honesty, no candidate has ever discussed the virtues of expensive athletic awards, of having or not having Harry Bridges come to the campus, of spending $500 a year on debate, or any­thing of the sort whatever. No candidate has ever intimated that he even has an opinion on such subjects. While candidates will emphasize the necessity of having capable men on such committees as the Educational Policies Committee, they never discuss the EPC itself or what it should do. The candidates for office will be the last to say that "writing minutes" or "cashing checks" is all there is to their jobs. But when it come to talk­ing about something else during the campaign, they simply don't do it.

Urrp!

And the speeches during dinner are no better. It is to be hoped that the By-Laws recommen­dation in the California Tech, that there are the posters — I shall make a solemn vow to vote against the candidate with the best posters.

The election rally is in many ways the best aspect of ASCIT elections. At least it doesn't pret­end to be serious.

Is it any wonder that we get a bunch of unimaginative con­servatives on the Board of Di­rectors?

Getting off to a fast start with THE GENERAL PETROLEUM TEAM

World record speed runs like the 191.2 mph set by the Renault experimental gas turbine car at Bonneville depend on a combination of precision engineering, driving skill and the expert fuel and lubricating knowledge of Mobil teams.
Jazz

Accent On Keys - - Great Pianists

By Lloyd Kamin

Bud Powell - Jazz Original
Morgan McN 4177

Bud Powell was the first influential pianist of the modern school. He was the first pianist to study and master the harmonic and rhythmic innovations of the bop experimentalists. As most of these were horn men, such as Charlie Parker and Miles Davis, Bud was ahead of the band and expressed the ideas on piano. Similar to Earl Hines, of an earlier period, Powell viewed the piano as a horn, and in doing so, issued somewhat of an emancipation.

Although endowed with enough technique to express himself in rapid single-noted passages, Powell was still seriously hampered by the demands of the medium, and his work now seems a bit crude. He made excessive use of dynamics, and typically favored little surges within the long phrase played by the right hand. Powell was the first to negatively ignore his left hand, using it sporadically for accents.

Powell's work is interesting in that it was first, and that it spawned countless imitators. These imitators, however, are predominantly more pleasing to hear than Bud himself, as they have further developed his style. Powell has become primarily historical.

Thelonius Monk - Genius of Modern Music

Blue Note BLP 1210

Monk was an essential contributor in the early formative sections of modern jazz. His conception was, and still is, unbelievably advanced harmonically. He will be hailed as an innovator for some time to come.

Monk is firmly rooted in jazz tradition. The spirit of spirituals and gospels is increasingly obvious in his work. The predominant blues strain is effectively covered by a complex dissonance that insured years of obscurity. For a decade it has been known that Monk was far out, but the big question was: far out where?

Monk is a perfectionist, but his goals are not the common ones, and he appears eccentric and uncompromisingly complex. The beauty in his compositions lies in the harmonies, as evidenced by his superb Round Midnight, probably the most beautiful ballad to come out of jazz. Monk's playing style is predictably stark and spare, with no attempts to soften the angular lines.

It is difficult for me to derive enjoyment from listening to Monk; the dissonance distracts me from the fundamental message. I am fascinated by the scope of the man's genius, and Monk serves as a constant reminder of the enormous amount of material to be learned.

Lennie Tristano

Atlantic 1224

Tristano is a recluse. He has been accused of being cold and mathematical in his playing, and of having no feel for jazz. It is certainly true that Tristano juggles tapes, and superimposes phrases and lines, just as he experiments with intricate mathematical patterns. But what is wrong with being an experimenter, as long as the experiments are successful?

As to Tristano's not feeling jazz, why, the claim is absurd! Jazz is above all an expression of emotion, and the tortured mind of Lennie Tristano is a fertile one.

It is the ultimate of internal tension present, reflecting the turmoil and conflict residing within the man. I always receive the definite impression that Tristano is just about to burst a blood vessel.

Tristano has two distinct styles. Whenever he blows with the alto sax artist, Lee Konitz, Lennie uses block chordal passages that are orchestral in approach. He shows, therein, his complete mastery of the keyboard, subtly changing tone at a time of the note-crowded chord, and achieving a highly dramatic effect.

Usually, though, Tristano will play single lines, with his left hand appearing as a constant reminder of the enormous amount of material to be learned.

(Continued on page 8)

SENIORS AND GRADUATE STUDENTS IN ENGINEERING

The Douglas Aircraft Company invites you to ON-CAMPUS INTERVIEWS

February 17, 18, 19

Find out about the interesting positions, assistance in furthering your education and outstanding promotion opportunities with the world's largest manufacturer of living conditions, research facilities and opportunities to advance professionally at the various Douglas locations.

Reserve your career decision until you have talked with the Douglas representative. It may be the most important interview of your life.

SEE YOUR DIRECTOR OF PLACEMENT FOR YOUR INTERVIEW APPOINTMENT

MARK YOUR CALENDAR!

Campus interviews for rewarding career opportunities as:

ELECTRONIC and MECHANICAL ENGINEERS/PHYSICISTS

will be scheduled for

February 18

with representatives of

FEDERAL TELECOMMUNICATION LABORATORIES

The graduate seeking unusual opportunities in advanced electronic engineering will do well to learn about Federal Telecommunication Laboratories, a division of internationally famous IT&T.

Laboratories in
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COMING FEBRUARY 20 & 21

Hughes announces campus interviews for Electrical Engineers and Physicists receiving B.S., M.S., or Ph.D. degrees. Consult your placement office now for an appointment.

HUGHES

RESEARCH, DEVELOPMENT AND MANUFACTURING

Hughes Aircraft Company - Culver City, Los Angeles, CA; Greensboro, NC; Valley Forge, Pennsylvania; and Tucson, Arizona
HUTCH...

Shown in this self-portrait is Steve Hutchison, ubiquitous cartoonist, here drawing a typical denizen of Caltech. He was a hit with his ingenious caricatures, spurred on by helpful comments from the large audience invariably present. Setting up shop one night each in the four houses several weeks ago, he succeeded in capturing the inner personalities of nearly 200 men, at the amazing rate of one every few minutes.

A specialist in jobs for college groups, Hutch travels to many western colleges. His only previous visit to Tech occurred two years ago.

Houses Schedule Full Weekend

This week's social calendar shows a full complement of nine social events, as the houses party it up before the lean, cold time of finals.

Rickett's traditional Apache Dance tops the weekend with its Bohemian atmosphere of the slums of Paris.

Tech's steam tunnels will acquire red lights for the night.

TRAVEL PRIZE

(Continued from page 1)

work at Silliman University, a college-hospital-mission station. He will report on medical research opportunities in underdeveloped countries.

Graham will visit all the major centers of Europe with an eye toward surveying employment opportunities for Tech graduates, in the fields of research, technical, and sales representative work, and civil service.

Linson plans to travel throughout Europe, meeting students and observing student life to acquaint himself with their "ambitions, ideas, and philosophies."

and become the Sewers of Paris — the only approach to the underground realm. Rickett's lounge will become a French cafe, complete with private booths and pizza. As always, the Apache costumes will include beards for the men and abundant makeup for the women.

Fleming has planned two exchanges for this weekend, one tonight with Scripps' Browning Hall, and one Saturday with Whittier. Friday night will find the Fleming men attending their off-campus Artist's Party.

Blacker has scheduled a Valentine's Dance for Friday night. On Saturday they will hold a Pasadera-wide treasure hunt, followed by refreshments and prize awards in their lounge.

Dabney will host a Valentine's Dance, complete with orchestra and full decorations on Friday. They will travel to a mountain retreat on Saturday for an informal evening party - their Soma Holiday.

Throop's Valentine's Dance is scheduled for Saturday.

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INSIDE AN OBSERVATORY ATTACHED TO A LEADING UNIVERSITY

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YOU SEE VICEROY HAS MORE THAN 20,000 FILTER TRAPS, THOUSANDS AND THOUSANDS MORE THAN OTHER LEADING BRANDS!

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Light One! Discover... VICEROY GIVES YOU MORE OF WHAT YOU CHANGE TO A FILTER FOR!

print it on your shopping list...

Budweiser.

KING OF BEERS
Tigers Squeeze By Fired-Up Tech Five; Poets, Diablos Trounce Beaver Cagers

Tech's small but game basketball team came very close to upsetting Occidental on the Tigers' court last Tuesday. Rallying from an eleven-point deficit, the Beavers closed the gap to 66-64 in the final minutes, and Oxy was forced to call on all their skill and luck to pull out a 72-67 victory.

Caltech grabbed an early lead, but this vanished when Oxy rallied late in the period and spurted into a 32-25 halftime advantage. The second half was played on even terms as the score seesawed around this seven-point margin, until Tech put on the full-court press and came in with a rush.

With the score 66-64, Tech gained the ball only to lose it on a controversial play, where many fans felt the referees missed a foul. Whatever happened, Gene Rock, who was chosen "coach of the week" by the Independent-Star News, and his crew gave a great account of themselves.

Fred Newman was high-point man for the night with 28, followed closely by Ralston of Occidental, who hit for 25. Rounding out the Beaver scoring were Sonny Nelson, 14; Glenn Converse, 10; John Stein, 6; and Bob Emmerling, 6.

Horsehiders Start Drills

On Monday, the Caltech baseball season officially opened as both varsity and frosh teams start regularly scheduled practice sessions. Things got underway this week when varsity coach Ed Preisler and frosh mentor Jack Petersen gave chalk talks and began organizing prospective team members who have already started getting into shape.

Tech generally produces high-quality competitive teams in this field, having tied for the SCC championship in 1956. Anyone interested in baseball should contact Preisler at the athletic offices or turn out on the diamond about 10:00 p.m.

Netmen Win Tennis Team Opens '58 Season; Downs PCC 3-2

Showing early season rustiness, Caltech's varsity tennis team took three out of five singles matches from a determined PCC last week.

Swimmers to Meet SMJC

Tomorrow, Caltech's varsity swimming team hosts Santa Monica Junior College in the first '58 meet to be held in the Alumni Pool. The tankmen from Santa Monica are perennially tough in the water and will provide rugged competition for the Beaver swimmers.

The Beavers, though they scored a victory over the Los Angeles Athletic Club on Friday, are not yet up to last year's par. That meet was a little more than a practice contest, being the first of the season.

Web Emeny's crew, stands an excellent chance of improving a third place showing in the '57 SCC campaign. Back from record-breaking performances last year are Don Owings and Clark Rose, bolstered by such point-getters as Bob Blandford, Keith Brown, and Bob Smoak. In addition, several promising sophomores, notably Dave Tucker and Peter Bony, have come up from the '57 frosh squad.
**Frosh Dorms Proposed In Housing Plan**

A plan to convert two of the three proposed new student houses into freshman dorms is being considered by the Faculty Committee on Student Houses. The plan would provide upper-class advisors for the freshmen, and perhaps postpone their rotation to senior year. The Committee will consider all possibilities for undergraduate living organization before it approves final construction of the new dormitories. However, it is submitting the above plan for discussion among administrators and students.

Proponents of the proposal feel that freshmen need a year by themselves to develop and build a healthful attitude on the high ideals and optimistic dreams of scientific success which they bring with them from high school before being exposed to upperclassmen supposedly possessing cynicism and poor study habits.

The upper class advisory system, modeled after that used by Stanford in utilizing a freshman dorm plan, could fill in for the feeling of equality with sophomores, juniors, and seniors now boasted to be available to the new student. The unique house system, according to Dean Foster Strong, would, along with faculty members, be utilized so that several upperclass leaders and students best suited to the advisory job will volunteer when the full nature of their responsibility is formulated and presented as a personal challenge.

These positions, called “sponsors” at Stanford, are considered the highest campus honor and the supervising sponsor is a job actually held by the student president, disclosed Strong.

One more argument circulating in favor of housing all frosh together for one year is to foster school and class spirit above housing loyalty. Strong points out that Caltech can’t ignore, class unity, the importance of the group, and the reason behind their strength at most other schools in the country.

Much has been said on the other side in defense of the present procedure of immediate house membership. Men are worrying about the social development of the freshmen isolated without cars and dating contacts in the dormitory. It is argued that dorm life will have to be a rule prohibiting upper-class house members from loaning cars because there would be, in effect, a year-long rotation process? Stanford and other schools being cited by sponsors of the fresh dorm plan, it has been noted, are co-educational.

Most present house members vehemently insist that the experience of the first year in the house is an indispensable part of a maturity process that Tech is now able to offer. There is widespread fear that the people who do volunteer to move from the house into the dorm would be the less desirable members who have not built a strong house loyalty.

Strong indicates that the discussion is just beginning, and he frankly admits not knowing the answers to all of the objections being raised. He suggests that all students who have friends in schools under a fresh dorm system try to find out its success so as to add practical experience to back the opinions.

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**An engineering career with the Bell Telephone Companies**

John Lawlor is a Transmission Engineer with New England Telephone and Telegraph Company in Boston. His answers reflect his experiences during five years in the telephone business.

**Q. How did you begin as an engineer in the Bell Telephone Companies?**

**A.** My first fifteen months were spent in "on-the-job" training—changing assignments every three months or so. These assignments gave me a broad, over-all background in telephone engineering. And they were accompanied by plenty of responsibility. They progressed in importance with my ability to handle them.

**Q. What is the attitude of older engineers and supervisors toward young men?**

**A.** I've found a strong team spirit in the telephone company. You're encouraged to contribute your ideas, and they're received with an open mind. Young men and new ideas are regarded as vital toward the continuing growth of the company.

**Q. How about opportunities for advancement?**

**A.** I'd say they depend on the man. Opportunities to demonstrate your ability come with each new job you're given. The size and importance of your assignments grow with your ability to handle them. All promotions are made from within, and the growth of the business is creating new openings all the time. One more thing. Most telephone engineering locations are convenient to colleges. You can aid your advancement by keeping on with your studies.

**Q. How does the telephone company stack up where pay is concerned?**

**A.** Starting salaries are competitive with those offered by most large companies. Raises are based on merit, with several increases during your first two years with the company. What's more, your performance is reviewed regularly to make sure that your pay keeps up with your progress. All things considered, I think a Bell Telephone career is second to none in rewards and opportunities.

Find out about career opportunities for you in the Bell Telephone Companies. Talk with the Bell interviewer when he visits your campus. And read the Bell Telephone booklet on file in your Placement Office, or write for "Challenge and Opportunity" to: College Employment Supervisor, American Telephone and Telegraph Company, 193 Broadway, New York 7, N. Y.