

# The California Tech

California Institute of Technology

Volume LIX

Pasadena, California, Thursday, November 7, 1957

Number 6

## Houses Plan Spectacular Interhouse

by Cleve Moler

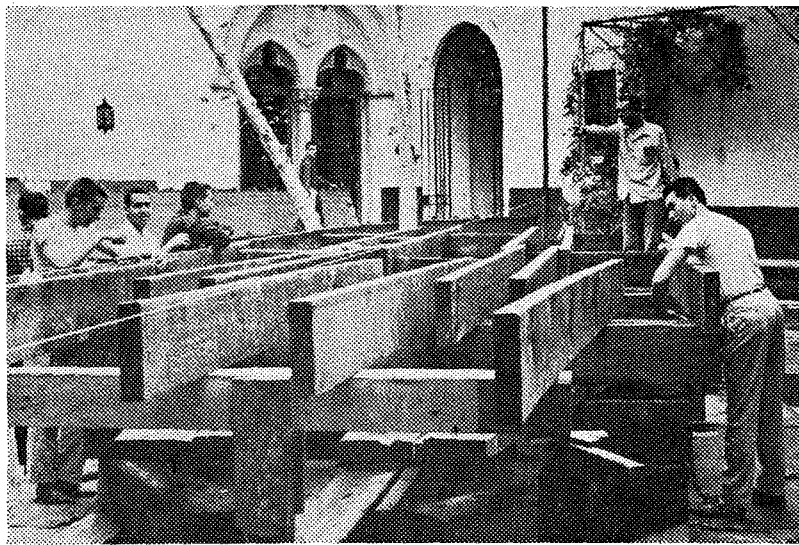
Caltech's annual Interhouse dance is approaching too rapidly for student house social chairmen, as usual. The big affair, which is scheduled to begin around nine Saturday night, is traditionally the most spectacular social event in Southern California.

Towering above all surrounding structures will be Throop Club's Eiffel Tower. Part of Throop's "Paris" theme, the tower is 36 feet tall. Couples who venture across Olive Walk will enter the Parisian display through a 17-foot Arch d' Triumphe. Throop's porch and lounge will become a sidewalk cafe and bar for the evening.

### Fleming's flooded

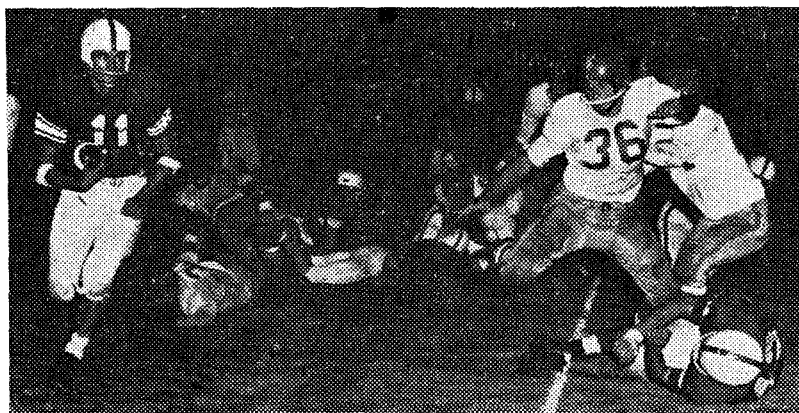
High point of Fleming's extravaganza will be a "huge" geyser, "gushing" from the side of a cardboard mountain. (Rumor has it that the geyser is only an excuse for importing a 7½-horsepower pump. Actually, Fleming is planning to dominate future water fights with their 110-foot spray.) Exactly what part a geyser plays in the

(Continued on page 6)



ASCIT Photo  
Social chairman barks orders at shipbuilding crew in Blacker courtyard.

## Touchdown



Dick Van Kirk breaks clear around Whittier's Max Fields for Caltech's second score.

## IHC Modifies Point System

The Interhouse Committee last week completely overhauled the scoring system for the Varsity Rating Trophy.

Under the new rules the assignment of Varsity Rating points will be: For Varsity, 4 points for players and 2 for managers; for Frosh and JV: 2 for players and 1 for managers. The new system was adopted to eliminate the difference between the sports previously designated as "major" and "minor" under outdated ASCIT by-laws. It also allows only half as many points for managers as for players in any sport.

### Alternatives rejected

Alternative schemes, such as awarding points only for lettering managers or only for a certain number of managers per sport, were discussed and rejected in favor of the newly adopted system. The move to eliminate the major-minor distinction was carried unanimously.

## Voters Defeat Amendment

The proposed constitutional amendment failed to pass in last Thursday's election, it was announced at Monday's Board of Directors meeting.

The amendment, which required a two-thirds majority to pass, was defeated by 131 no's against 189 aye's; 262 aye's would have been necessary to outweigh the 131. The BOD moved unanimously to accept the report of the election committee, and the matter was closed. Had the amendment passed, the by-laws would have been modified to provide for an additional \$2 assessment to cover the cost of individual Big T pictures.

## Van Kirk Scores Twice; Beavers Scare Strong Poets

Pasadena's Rose Bowl was the scene of Caltech's first home conference game Friday night. In a contest whose outcome was in doubt until the fourth quarter, the Beavers went down before the rolling ground attack of Whittier's Poets, 20-12. Excitement ran high at half-time as Tech led 12-6.

The outstanding plays of the game came from Beaver quarterback Dick Van Kirk who scored twice while keeping the ball on the fullback option. Halfbacks Max Fields and Len Peden and fullback Max McCartney all shared in ground gaining honors for Whittier.

The first quarter started slowly until Les Peden took off around end for a 34 yard gain. A few plays later quarterback Ron Klepfer handed off to Fields for a TD with 4:33 to go. The

try for the extra point was blocked. In the last few seconds of the quarter Tech burst through for a first down before changing ends.

### Tech takes lead

On the next play Van Kirk kept the ball on the option and went 52 yards for a score. His attempt at the point after was

(Continued on page 5)

## Donna Brightens Office As ASCIT Goes Businesslike

by Howard Weisberg

Donna is back! The vivacious, understanding secretary, who formerly was recognized by all Techmen as the secretary in the YMCA office, is now working for ASCIT.

Each Tuesday and Thursday, from 9:30 to 2:30, the atmosphere of the ASCIT office in lower Fleming is notably brightened by the presence of this gray-haired (since age 7) married (since last summer) young secretary. At these times she busily types correspondence for the ASCIT officers, and also handles secretarial tasks for groups such as the Big T and the California Tech.

### ASCIT becomes businesslike

All this is a part of the program started this year by the ASCIT officers to put our multi-thousand dollar government on something approaching a businesslike basis.

With this in mind, the office will be manned by students on weekdays when Donna does not

## Gardner on Satellite: Too Late for Vanguard

(This is the report of an exclusive California Tech interview with former Assistant Secretary of the Air Force Trevor Gardner.)

by Dave Leeson

"With the launching of Sputnik II, it is too late for us to save face by launching our own satellite," said former Assistant Secretary of the Air Force Trevor Gardner.

Interviewed by the California Tech yesterday at his Pasadena office, Gardner expressed his opinion that "the best answer to Sputnik I and II is not our own Sputnik." The former Air Force research and development head said he could make "a better case for canceling Vanguard than for continuing it."

### Very poor second

He made clear his feeling that we could, even at best, finish only a very poor second in the eyes of the world. He pointed out that not launching Vanguard would force the Russians to meet their IGY commitments by revealing data obtained from their satellite program.

Gardner, who resigned his government post in February, 1956, in protest against what he considered to be the mishandling of the long-range missile program, expressed the opinion that our best move is not to counter in the satellite field, but to concentrate on fitting our defense plans more closely to the international political and technological situation as it exists today.

### Red tape and rivalry

He reiterated the warning of his Life Magazine article that the U.S. is lagging dangerously behind Russian developments in the field of missile and rocket technology, and that this delay is due for the most part to tangled administration red tape and inter-service rivalry. "The Russians have established apparent technical superiority," he said, "and our present position will remain intolerable if the administration does not come to a full realization of the significance of this fact."

It was his feeling that the

(Continued on page 3)



Courtesy Independent  
Trevor Gardner

## Candidates Selected for Royal Court

Six gorgeous girls have been chosen as candidates for Homecoming Queen by a committee of Caltech "beauty scouts," ASCIT Publicity Manager Bill McClure announced this week.

### Public appearance

The girls will appear in person at dinner next Tuesday and Wednesday, Nov. 12 and 13, in all the Houses. The personal appearances were arranged by the committee to supplement pictures of the six which will grace the Tech bulletin boards from Monday of next week to Thursday, Nov. 14, (election time). More pictures will be published in the next issue of the California Tech, in order to provide the Techman with the greatest possible basis for his decision.

### Voting

Voting time will be from 11 a.m. until early afternoon Thursday.

Results of the vote will not be made known until halftime of the Homecoming Game with Oxy, Nov. 15, Fri. The Queen and two princesses will be crowned at this time in the traditional ceremony.

## SCOREBOARD

### FOOTBALL

Whittier 20, Caltech 12  
Whittier 44, Caltech 0 (Frosh)

### WATER POLO

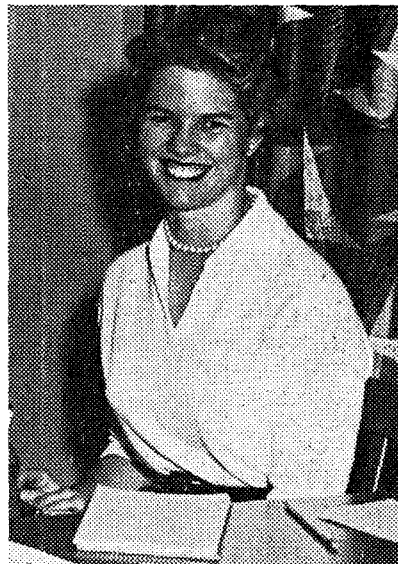
LACC 10, Caltech 9  
Pomona 5, Caltech 0  
Pomona 11, Caltech 3 (Frosh)  
Oxy 5, Caltech 3  
Oxy 19, Caltech 1 (Frosh)

### SOCCER

Caltech 3, UCLA 2  
Cate 7, Caltech 0 (JV)

### CROSS COUNTRY

Redlands 22, Caltech 33  
Redlands 21, Caltech 34 (Frosh)



ASCIT Photo  
Donna

work. Positions are still available for Monday, Wednesday and Friday morning. "They won't have to do anything except answer the phone," stated ASCIT prexy Dick Kirk enthusiastically.

## California Tech

Associated Collegiate Press honor rating: First Class

Editor—Bob Walsh

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Art—Bruce Allesina, Ted Bate

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### Editorial

## Damn, We're Neat

(First of a series)

Many students, especially freshmen, seem to have the erroneous impression that Caltech traditionally fields poor teams in all intercollegiate sports. More unfortunate is that this feeling has been allowed to spread to neighboring schools, much to the chagrin of Tech athletes.

This notion is due to two things. The first is the consistent weakness of freshman teams; the second is the poor records posted in the most popular sports—football and basketball.

In the remaining sports—soccer, water polo, cross-country, track, swimming, baseball, tennis and golf—Tech has posted a quite respectable 42% win record in the last two years. This is despite competing against such big schools as USC, the University of Arizona, Cal Poly (SLO), UCLA, and San Diego State, and such near professionals as Occidental in track and cross-country. In recent years Tech has won conference championships in baseball and swimming, sent a track star to the Olympics, and retired a soccer trophy by winning three straight championships.

The basketball team, however, has had three consecutive bad years since winning the conference crown in 1954. This seems to have been due to a combination of manpower problems and ineffectual coaching. But this will not be a continuing problem. With a new coach and a much stronger team, Tech will probably sport a strong hoop squad this year.

Football will be a problem as long as it retains professional aspects at nearly every other college. Yet this year Caltech is fielding a strong gridiron squad, and will probably be favored to win every remaining game.

Tech athletes win their share of games, and this year they will be winning more than their share. Those who persist in looking at the wrong side of the ledger in order to maintain their high-school concept of the technical college are hurting both themselves and their friends.

Caltech is strong this fall in football, soccer and water polo. If those who like to think of their schoolmates as "twitches" would attend some games and identify themselves with the teams, they would surely find it a rewarding and enlightening experience.

## Oil, Arms, and Refugees

From a purely selfish, nationalistic point of view, it is vital that the Middle East remain in the free world. For without its oil, which amounts to two-thirds of the world's proved reserves, Western industry could not long survive. This, it seems to me, should be the major consideration in the formulation of U.S. Middle Eastern policy.

It is obvious that our present policy is not achieving this purpose. For just within the last couple of years we have lost prestige in almost every Arab nation, some of which have become actively hostile or outright enemy territory, namely Egypt and Syria. And there is no reason to believe that the results will be significantly different in the future.

### Instability

The problem is that the Middle East is suffering from economic and political instability. Years of association with the Western world have not brought a significant improvement in conditions; many Arabs are now wondering if Russian Communism might raise them out of their misery. The obvious answer, from our point of view, is to see that something is done to improve conditions.

Perhaps a consideration of the present problems will suggest how they might be solved. First, there are the economic factors: the terrible poverty of the masses as contrasted with the wealth of the landlords, kings, and the industrialized nations; the disparity of wealth between the oil producing states and the havens; the 900,000 Palestinian Arab refugees, and the inability of the middle class and the educated Arabs to find useful occupations. The political problems are no less important: unstable national governments; intra-regional conflicts; war with Israel, and the clash of Western and Russian interests.

### Obsolete weapons

Recent Western efforts in the

## The Outside World

### News of the World in Brief

#### FOREIGN

Russia jumped into the spotlight of foreign affairs by sending up a second Sputnik complete with dog and sending down Marshal Zhukov with some friends. Russia kept Zhukov's status silent for some time and then, simultaneously with his confession, announced that besides being removed from the office of Defense Minister, he also lost his posts on the central committee and Politburo. He was accused of attempting to establish personal control over the army while fighting party rule. Kodion Y. Malinovsky was appointed as the new Defense Minister. Khrushchev announced that Zhukov would be given a job somewhere. Since Zhukov had been a great World War II

area have been limited primarily to helping the arms race. This raises the question as to why we have sent arms to Jordan, Lebanon, Iraq, Iran, and Saudi Arabia. Ostensibly they have been to help these countries defend themselves from the Russians. But do we really think that these obsolete weapons could stop the Russians or even slow them down? Obviously, it is the threat of American intervention that prevents Russian aggression.

U.S. arms seem merely to challenge Russia to send more arms. Although no one knows what the Russian reaction would be, perhaps the U.S. could propose a moratorium on arms shipments to the Middle East.

### Development agency

It seems to me that our money could be better spent in helping to finance a United Nations Middle East development agency which would attack the two basic causes of the area's instability, poverty and refugees. This could be financed perhaps by direct national contributions and a levy on all oil shipped from the region. The agency's first task would be to execute the blueprinted refugee resettlement plans for the Sinai Peninsula and the Jordan Valley, which could ultimately absorb one-quarter of the present refugee population.

Only one fact is certain: every passing year makes the refugee problem a little worse, the Arab states a little more unstable, and the Russians a little happier. It may be a debatable point as to whether we have a moral obligation to try to help them solve their problems, but there is no question but that it would be in our own best interests.

CARLIN

hero, the news of his fall surprised quite a few people.

#### France

France, which has been without an active government for over a month, may have a new Premier in its former Finance Minister, Felix Gaillard. After the General Assembly rejected Guy Mollet, President Coty asked Radical Socialist Gaillard to try. Gaillard now has the backing of the all-important Socialists as well as the Conservative Independents and Gaullists, and appears to be capable of forming a successful cabinet. Europe is especially anxious about France's present economic situation which is endangering all the plans for economic union.

#### Algeria

Algerian rebels have agreed to negotiate a truce only after Algeria is granted independence, a condition which does not appeal to France. President Bourguiba of Tunisia is trying to arrange a meeting between his country, Algeria, and Tunisia.

#### Syria

UN debate on the Syria-Turkey question ended when Syria agreed not to press for a vote on her inspection committee plan if the West would not vote on mediation by Hammarskjold, who might still unofficially try to settle any flareups. The nine-nation Arab League voted to support Syria in any crisis. Syria also signed a twelve-year economic and technical aid pact with Russia.

#### Poland

Poland applied for economic aid and may get it, pointing up our State Department's policy of fostering independent communism in Eastern Europe.

#### DOMESTIC

Defense spending has been varied by McElroy due to recent developments abroad. He revoked Wilson's cuts on research and development and urged the service to restore any action in those fields.

#### Teamsters

The Teamster's Union in effect rejected the AFL-CIO ultimatum to clean house and will appeal its case to the December convention. Meanwhile, large numbers of rank-and-file were signing an affidavit saying that Hoffa's election was illegal.

#### Little Rock

Little Rock was quiet although still with a representation of the army. Eisenhower is presently having trouble filling a new six-month civil rights board, especially with Southern representatives.

## Secretary's Report

### PROPOSED STUDENT UNION

At present, plans call for a new Student Union building to be built where the Greasy and Throop Club now stand. Since it will replace these buildings, the Student Union cannot be built until the new cafeteria (a part of the planned student houses) is completed. However, the facilities which it will contain are now being planned. Subject to further review and additions, these facilities include: areas for the YMCA and Throop Club, a social room and snack bar, an enlarged area for the bookstore, a game room, student shop, offices and meeting rooms for the Board of Directors, the California Tech, the Big T, Totem, and the Little T. There will be darkrooms for the ASCIT Photo department and for individual student's use. There will be meeting rooms for the use of undergraduate clubs, and an area to house the equipment of the Radio Club. At sometime in the future there will be a meeting of students and faculty to discuss the space required by these various organizations, the most convenient arrangement of the rooms, and any possible changes in the above list.

### ASCIT BLOOD DRIVE

The ASCIT Blood Drive will take place from 1:00 p.m. to 5:30 p.m. on Thurs., Nov. 1. Cordes will carry on a bloodthirsty campaign for this cause.

### MODEL UNITED NATIONS

The Model United Nations delegation chairman for this year will be Mike Talcott.

Michael Godfrey  
ASCIT Secretary

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# EPICURE

## Theatre

**Waiting For Godot.** Samuel Beckett's abstruse tragi-comedy is experiencing an extremely sensitive portrayal at the Dahl Theatre in western Los Angeles.

Presented by The Playgoers Company as the first of a series of high-quality drama, **Godot** offers a delightful evening to the quick-thinking intellectual who matches wits with Beckett in an attempt to capture all his nuances. The intrinsic worth of the play is a matter for some debate, since few claim to understand it fully, but the performance is exceptionally empathic and moving.

Jack Albertson, as the bum Vladimir, skillfully blends the indignities of life with the dignity of the human spirit as he portrays with humor and pathos the eternal blind striving of the human race toward unseen goals.

The other bum, Estragon, probably represents an even less enlightened hope for salvation. Perhaps he signifies faith, as opposed to Vladimir's "reason." Joey Faye brings him brilliantly to life on the stage in a memorable performance.

Theodore Marcuse and Knox Fowler are cast as Pozzo and Lucky, who at first appear to represent the master and slave classes, but more probably represent two possible answers to the never-coming of Godot.

The action covers two days. Each day Estragon and Vladimir appear toward evening at the same bleak scene, embrace, and try to while away the time as they wait for Godot. Each day Pozzo and Lucky appear, and there is a good deal of confusing action and conversation. Eventually night falls, and a boy comes to tell them that Godot could not make it; but maybe tomorrow . . . One is given the impression that the same has happened every day for a long, long time, but at the same time each day is a little different.

Some ideas for interpretation for those who have seen the play or may see it this week: Each day may be intended to represent a generation. Night represents death, and the embracing of Vladimir and Estragon represents the union of faith and reason at life's end. Pozzo represents the artificial standards of society, and Lucky represents the life-is-meaningless attitude. Godot represents heav-

en or utopia or whatever man dreams of.

For a real intellectual workout and a fine dramatic portrayal, we strongly recommend this show. The last performance is Sunday, with curtains every night at 8:30 and Saturday at 8 and 10:30.

Watch for the next play in this series, Jean Anouilh's **Colombe**, beginning November 21.

**Waiting for Godot**, Dahl Theater, 7165 Beverly Blvd., Th., F., Su. 8:30, Sa. 8:00, 10:30; \$3.30, \$2.75, \$2.20.

### New around town

**Ann B. Davis Show**, Cabaret Concerttheater, Tu-Sa 9:00

**Festivals of 1957**, Padua Hills, W-Sa 8:30; W, Sa, 2:30

**Orpheus Descending**, Gallery, Ne Mon 8:30, Sa 8:00, 10:30

**Sands of the Negev**, Horseshoe, Th-Su 8:30

**Waiting for Godot**, Dahl, Th, F, Su 8:30, Sa 8:00, 10:30

**Witness for the Prosecution**, Players Ring, N 8:30, Sa 10:45

(Continued on page 6)

## GARDNER (Continued from page 1)

Russians can "rattle their missiles" with authority, having proven their ability to put Sputnik II in its orbit with apparent ease.

In Gardner's words, "The time has come when we can no longer tolerate the existence of the Iron Curtain; we cannot continue to operate in a vacuum. The Iron Curtain has got to have holes punched in it at all costs." Further, "we need not only technological developments, but also practical moves in the field of foreign policy," he said.

### No time

Commenting on his past recommendations that a missile department be established along the lines of the Manhattan Project of World War II, he now feels that there is "no time to disentangle the missile mess."

"What is needed now is a man on the level of the President or Secretary of Defense to head all missile development and direct the consolidation of projects already under way. We must now give top priority to our military ICBM and IRBM projects; the administration must be made to see that the present situation is intolerable.

Gardner, who is now president of Hycon Manufacturing Co., is considered one of the country's top experts on missiles. During World War II he was head of the development engineering office of "Scientific Research and Development, Rocket and Atomic Bomb Project" at Caltech.

He was president of Hycon until his appointment in 1953 as Special Assistant for Research and Development to the Secretary of the Air Force. He resigned this post in protest February 11, 1956, and returned to his present position.

(Ed. note: In view of the national importance of missile and rocket technology and the apparent inadequacy of the press to deal with a partly scientific problem, **The California Tech** made a special effort to obtain authoritative comment on this topic. Our interview with Gardner, although enlightening, demonstrated clearly that this problem is far more complex than appearances indicate, and further, that many of the men who are playing prominent roles in this field are situated right here at Caltech. In coming issues the **California Tech** will go deeper into these problems.)

# "Tech" Sends News Editor To Conclave

Mike Milder, California Tech news editor, will represent Caltech at a neditorial affairs conference of student representatives from California, Nevada, and Hawaii. Held on the campus of Mills College in Oakland the weekend of Nov. 25-27, the meeting will be in conjunction with the National Student Association regional conference.

The editorial affairs conference will be the first held by the western regional colleges. Plans are to organize and discuss editorial topics and problems of interest.

On a smaller scale, the Tech hopes to host a meeting of southern California small college weekly newspaper editors at Caltech in February. Consequently, it has urged all invited colleges to send representatives to the upcoming regional-level conference.

## "I'm in a business nobody dreamed of three years ago"

"In a company that develops new ideas by the thousands," says 30-year-old William K. Cordier, manager of General Electric's Man-Made Diamond pilot plant, "a young man's career progress need not be limited by his particular field. In my five years with General Electric, I've gained valuable experience in several different fields, and each assignment has helped me to move ahead. Right now, I have an exciting job. I run the world's first diamond-making plant — a business nobody dreamed of three years ago."

### Diamond Making a Reality

The job Bill Cordier holds is an important one, created because General Electric has the scientific and technical resources needed to seek out new knowledge and swiftly translate it into products that people want and need. In 1955, the company announced a major scientific breakthrough — the production of real diamonds in the laboratory. Today, little more than two years later, General Electric is making and selling quantities of these diamonds for civilian and defense use.

### Achieving Three-Way Progress

General Electric's ability to take on and solve big problems — in research and development as well as every phase of production — is constantly creating challenging new opportunities for the 29,000 college graduates at the company. As we see it, by providing a healthy climate for a young man's self-development in whatever area he may choose, we encourage not only his own progress, but that of the company and the nation as well.

Educational Relations, General Electric Company, Schenectady 5, New York



WILLIAM K. CORDIER received his B.S. in Mechanical Engineering from Purdue University (1949). He joined General Electric's Metallurgical Products Department in 1952.

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Patents

# Series Continues With Info On Protecting Inventions

by Roland Smoot

Caltech Assistant Patent Counsel

This is the third in a series of articles relating to the protection of industrial property.

The last time we indicated that in order to obtain a patent it was necessary to first have an invention and that having made your invention your second step was to see a patent attorney.

As we have indicated before, a patent is a contract. It is generally considered to be the most complicated legal instrument in all the fields of law. Therefore, in order to obtain adequate protection for your invention, it is not only advisable but in general necessary that a patent attorney prepare your application for patent.

**First, disclose invention**

Of the various parts of a patent application, the two most complicated and, as far as you are concerned, the most important, are the specification and claims. The specification must be a complete disclosure of the invention. It must be sufficiently complete so that any person skilled in the particular field to which the invention pertains may, by reading the specification, understand and be able to practice the invention. Many inventors are not willing to make a complete disclosure of their invention and yet they want a patent. These inventors want to hold back some key element or trick feature so that they can obtain a monopoly and still not reveal the essential character of the invention. Such a patent, if obtainable, would be void.

**Describe clearly**

In order to prepare a patent application, the attorney must have more than the mere idea. The poor guy is not an inventor. All he can do is put your invention into the proper words so that the Patent Office will be happy. The better your disclosure, the more complete your drawings, the better application he can prepare.

**Next, prepare claims**

Now, being a good client, you have provided your patent attorney with a complete disclosure of the invention including all necessary drawings and specific examples. With these in hand, the patent attorney will proceed to prepare in the form and language required by the Patent Office, the specification and the claims. While it is the specification which discloses the invention, it is the claims that set forth the metes and bounds of your invention and are, so far as protection is concerned, the

essential feature of the patent application.

A claim may run in length from a single word as in the case when claiming a new chemical compound, to several pages, as for example, when claiming the details of a hydraulic system or a computer. It is the individual limitations in the patent claim which describe your invention and distinguish it from prior similar structures.

Now that your patent attorney has prepared your patent application, he will, after you sign and approve it, file it in the Patent Office at which time it enters the prosecution phase, which is the final step in obtaining a patent.

**Greatest since hash**

The Patent Office can be considered the protector of the common weal and is interested in preventing the issuance of scrofulous patents. In the prosecution of a patent application, the Patent Office normally takes the position that there is no invention disclosed in the patent application. It is the patent attorney's job in the prosecution phase to convince the Patent Office that the invention disclosed is the greatest thing since hash and that the world could not live without the benefits of his client's contribution. If he is successful, you've got a patent. We always hope that we are successful.

Occasionally there are two patent applications pending in the Patent Office for the same invention. Since only one patent can be granted for one invention the Patent Office will hold a hearing, called an Interference Proceeding, to determine the identity of the first inventor. As we have mentioned previously, the invention consists of two steps, a "conception," or formation of the idea, and a "reduction to practice," or actual making of the invention in question in its physical form.

**Lab manuals**

To establish yourself as the first inventor it is necessary to prove that you conceived the invention prior to the other party. Proof that is acceptable

to the Patent Office are drawings, memoranda and test results. Since in important inventions this type of proof is always desirable, all engineers or scientists working on any new devices or subject matter should always keep accurate reports of each thing he is doing, including a brief statement of what he considers the invention to be, and a rough drawing illustrating it. These invention reports and memoranda should be witnessed by at least two persons capable of understanding the invention. Many inventors have lost valuable inventions to other parties by their failure to keep these witnessed memoranda.

**In summary . . .**

In concluding this portion of this series of articles, please remember two things. Your patent application and, therefore, your patent will be only as good as your disclosure to the patent attorney. The proof that you actually made the invention is only as good as your invention memoranda. Make both your disclosure and test data as complete and thorough as possible, then maybe you too can be a millionaire.

In the next article we shall discuss trade secrets and their relation to the patent system.



For the next two weeks the Barfly is going to concern itself with a discussion of Scotch with a critical analysis and evaluation of about 25 brands of Scotch readily available to the student consumer. The Scotches covered will include concoctions that sell as cheaply as \$6 a fifth to some that cost well over \$30 for the same quantity.



Needless to say it is unrealistic to suppose that the casual imbibor will possess either the capacity or the finances to sample each brand on the market and as a result this column is devoted to the task of familiarizing both the tyro and the old pro with what is available to him. To those of you who insist on finding out for yourself we give no further help.

**Quality of Scotch**

To begin with, what is Scotch and what factors determine its quality? Like any other whisky (six basic classes in all), Scotch is distilled from a fermented grain wash, principally barley malt in this case. The smoky flavor which is characteristic of all Scotch is the result of a long period of drying the malt over peat fires. After fermentation is complete the liquor should be distilled over at no higher than 160 proof. In general the lower the proof at which a whisky is distilled over the better will be the quality of the product. The developing Scotch is then stored in unused charred oak barrels. As Scotch is slower to mature than other whiskys, one should be patient for no less than six years before sending the ripe whisky to the blender.

This is an introduction to a whisky whose followers are at least as rabid as the Martini fans. Next week we will discuss the individual scotches and what qualities each of them possess.

CORDES



## Ever meet a fanatic?

He's got just one thing uppermost in his mind. If he's looking for a job he's thinking *only* of pay or *only* of security. Reasonable men, however, weigh these and many other factors when they're evaluating career possibilities. Such factors as opportunity, challenging work, training, professional associates—things fanatics never bother to consider.

The Bell Telephone Companies have a booklet for reasonable men. It's called "Challenge and Opportunity." It's not the sort of thing that'll make a fanatic's eyes light up, but it ought to interest a thoughtful young man—whatever his college background—who is weighing career possibilities. Get it from your Placement Officer or send the coupon.

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# Tech Soccermen Beat UCLA, 3-2

The Caltech soccer team, having one of its best seasons in years, rolled on to its second straight win as it beat UCLA 3-2 a week ago yesterday on the Beaver field. The game was close all the way with neither team, especially Tech, playing its best game.

The Beavers took the offense right away with Brian Gray scoring the first goal when the game was but thirteen minutes old.

The Bruins came back to tie it up 1-1, until late in the half when Hugh Pritchard, who plays center halfback for Tech, came up and scored to make the score 2-1, Tech, at halftime.

### Nelson scores

Midway through the second half, after the ball had traveled the length of the field many times, Wayne Nelson scored for the Beavers to put the game practically on ice for the Beavers. UCLA made its last goal with but four minutes to go, but it was too late and the game ended with the score 3-2, Caltech.

This Saturday, Coach Lee Andrews' men travel to Westwood for a return match with the Bruins. A win here will put Tech in an excellent spot to take the conference champion-

# Water Polo Suffers in Late Start

by Velinty and Tucker

The Beaver natators rolled through last week's schedule, losing three games by narrow margins.

In Tuesday's game with LACC, the Webmen spotted their opponents five points in the first quarter, and then came back with a stirring rally to lose 10-9. The game, however, had its memorable moments, such as Clark Rees' facility at manipulating opposing guards, Norm Velinty's half-court glory shots, and Mike Mann's well placed throw to a free LACC. Many of the members of the team, however, seemed to be rapidly improving, namely Keith Brown, neophyte goalie.

Nevertheless, the Tech poloists were determined to do or die against Oxy on Friday. The team looked sharp all through the game; although many team members were miserably out of condition because of flu, student house food, and numerous student house vices. Caltech lost, 5-3.

ship.

Last Saturday, the JV team lost to Cate Academy, 7-0, for their third straight defeat.

# UR Runners Stun Tech

Perennially strong Redlands beat both the Caltech varsity and frosh cross-country teams, 22-33 and 21-34, respectively, last Friday at Redlands. It was the first league meet for both teams. Ray Manion and Dick Cootz took first and second for the Bulldogs to lead the field in the 2½-mile varsity race. Mike Rusch was third; Reed Saunders, fifth; Wes Shanks, seventh; Harv Hansen, eighth, and Mike Konrad, tenth for the Beavers.

# TECH BOWS, 20-12

(Continued from page 1)

wide. Soon after the Beavers started toward their second touchdown. On third down with 13 to go, Van Kirk faded back to pass, then ran 13 yards to his 48 for the first down. On the next play Tech end Gene Stanley was down for a pass and was clipped. Tech gained an automatic first down at the point, the Whittier 32, for pass interference. Van Kirk, again on the option, galloped to the 19 for the first. Dick Gustafson made a yard; Art Takido made 5; then Van Kirk went over from the 13, again on the option. His attempt at the extra point was low, but Tech led, 12-7, at the half.

The second half started slowly after a 25 yard pass play by Klepfer. After an exchange of possession, Whittier took over on Tech's 41 and ground out 28 yards in five plays, to make it first and ten on the 13. Whittier then fumbled and Newman recovered on the 14. Newman kicked after three downs and Whittier again took over in Tech territory. The Poets made a first down in two plays and again fumbled on the 37. Tech kicked on the fourth down from the 33. The kick was returned to Tech's 41 and Whittier was on its way to its second score. An offside set the ball on the 46, McCartney made 4; then Fields made 9, 21, and 12 in rapid succession to score. Peden made the point after to put the Poets back in the lead, 13-12.

### Tackle hole

The fourth quarter was marked by Whittier's continued pounding at the left tackle hole which they had found in the third. After several exchanges of kicks and downs, Fields broke through for 15 to Tech's 26. McCartney gained 6, Fields gained 12 and 5, then Les Peden went over from the 4, with 5:55 left. With two minutes left, the Poets gained possession on the Tech 27. The running attack brought the ball to the one yard line on first down with 11 seconds to go. The Tech line stiffened, and held for the last play.

# Opinion AS I SEE IT

by Dick Van Kirk

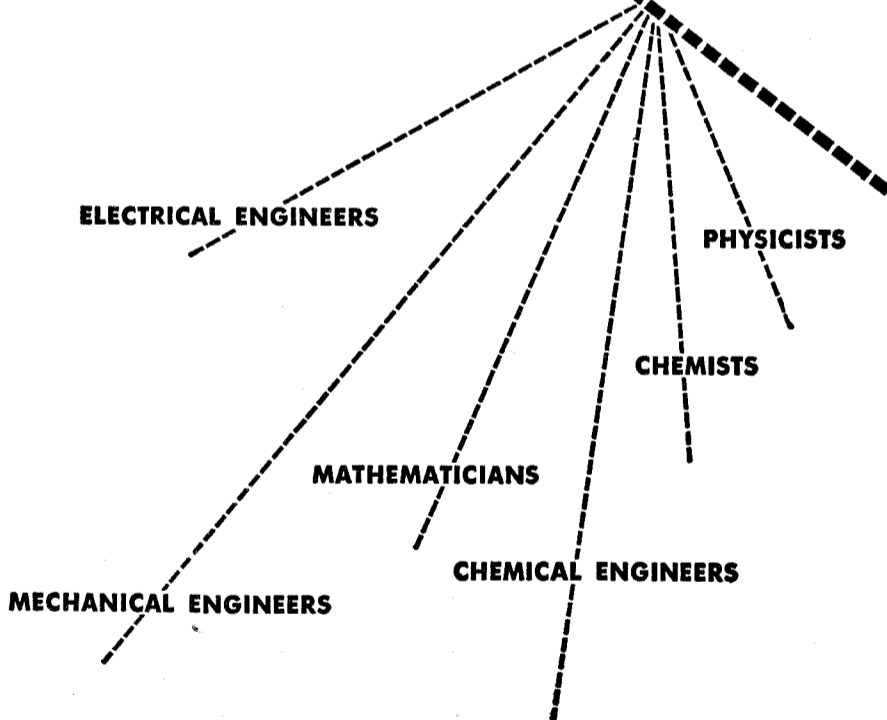
I would like to quote from the sports column which appears weekly in *The Occidental*, student newspaper of a neighboring institution. In the column, entitled "Jock Talk," Joe Sinclair wrote on Oct. 25: "To those of you in the student body who witnessed last week's freshman football game with Caltech, it must have been a very humorous sight to see the disorganization which seemed to plague the Beavers from the Pasadena institution.

"Players would go on and off the field at will and give a poor excuse for doing so. One stalwart, after running 78 yards in the second quarter for a TD, came off the field looking totally exhausted and didn't go back in during the period. After the teams came back for the third quarter, he still couldn't make it on to the field due to his extreme weariness, and he finally inserted himself late in the fourth quarter. Could it be that the brain boys were scared of our Tigers? Final score of 52-12 seems to indicate it."

Mr. Sinclair, in making the traditional effort to belittle the athletic endeavors of Caltech students, evidently overlooked the fact that the difference in the score may have come as a result of a difference in weight, speed, and experience of the two teams and chose to believe that Caltech's players were instead frozen with awe and fear of the "mighty" Tiger grid machine.

One week from tomorrow Caltech meets Oxy in the Rose Bowl. I hope the Tigers come to town expecting a Beaver varsity that is frightened at the prospect of meeting the Tigers. It will make things that much easier for us. For the benefit of any Tiger fans I would like to list a few of the "scared brain boys" who will face Occidental next week: Larry Berry, 220 pounds and Tech's best bet for all-conference honors, at tackle; Gene Beisman, 200-pound right tackle, who, in an unspectacular manner, has handled his job effectively all season without any hoopla or fanfare, as have guards Russ Pitzer and John Conover; Lance Hays, Gene Stanley, and Harold Forsen, three guys who performed the remarkable job of remaining rough and tough after becoming married; Fred Newman and Tony Leonard, two pass-grabbing fiends; Don Stocking, gummy senior halfback; Art Takido, a great blocking halfback and a shifty ball-carrier; Ed Krehbiel, who has spent the most painful 233 minutes of his career sitting on the bench with an injured knee, and Harold Gustafson, who came off the bench to handle the halfback job while Krehbiel was away. Brain boys? Yes. Scared? Ha!

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**EPIPURE**

(Continued from page 3)

**Dirty Work at the Crossroad,** Barn, Th-Sa 8:30 Disc  
**School for Brides,** Forum Mon-Sa 8:30, Sun 2:30, 7:30 Disc  
**Opera, Shrine**  
 Friday 8:00 Tosca  
 Sunday La Traviata  
**Cornelia Otis Skinner,** Hartford Ne Sun 8:30, W, Sa 2:30  
 N—Nightly  
 Ne—Nightly except  
 Disc—Discount tickets available in Throop Hall

**Cinema**

**The Mall Ball.** Jack Lemmon is a Bilko type private in a hospital unit just after the war who promotes a grand last fling for the nurses and GI's. Ernie Ko-

vacs, the captain who really runs the outfit tries to thwart these plans with hilarious results. Further complications arise when the Colonel plans a party of his own, and the French hotel owner insists the GI's repair WWI damage to her villa. Lemmon however, solves all these problems ingeniously, and most humorously.

Kovacs and Lemmon play their roles superbly and are well supported by the entire cast. Add this to good direction and clever dialogue and you have one of the funniest pictures Hollywood has ever produced.

CHEHNOW

**The Parson and the Outlaw.** Anthony Dexter is Billy the Kid

# Campus Brewins

**The Eagle scores**

The Blacks had a Doc Eagle party last Saturday complete with Eagle himself. Fun and droll games were had by all, but the highlight of the evening was from the old Eagle himself,

who is really not shot, but tries to settle down but is forced to clean up the town. After ten minutes of this weak story, poor direction and still worse acting, the reason this picture was billed with a very strong one is all too obvious.

CHERNOW

"Now," quoth he, "all the girls get in the center and hold hands and when I count three all the boys go in and rape 'em!" The rest of the evening was lost in the shuffle.

**Dabney is trying**

Beak hears that alley four has decided to do something about their lack of social prowess. The Beak is happy to make the first public announcement of the Hormone and Weight Lifting Club. If any of you twitches feel out of it Beak suggests that you contact Messrs. Benisick, Carnoy, (H.V.) Shakel or Schenter for hormone pills and weight lifting help. The boys say that now they get horny in two days.

**Frosh fouled**

Drubney man, H. Spertus was doing just fine the other night. After carefully checking his date's pulse he decided the time was ripe to whisk her off. Alas in walks his woommate to spoil it all. Finally after much dead silence his woommate left, only to be replaced by a long line of FYB friends. Harry take some fatherly advice and don't try it in your room.

**Gordo's scrapbook**

Ole Gordie Hughe's is making a scrapbook of beautiful wipe outs. Beak browsed through this book of woe and found some worth while quotes. "I'm awfully sorry Gordie but my grandfather died. . ." and "I'm sorry I wasn't there but I had to go to Tijuana to witness a marriage of my girl friend's mother." Beak feels sorry for Ole Gordo, he's so gullible.

**Cheerleaders cheerful?**

Beak went to the Rose Bowl last Friday and saw a real good game, but he has one complaint; why must the cheerleaders be so foul? Such phrases as "Let's give 'em a big pound 'em" and "big beat 'em" have too much Freudian significance.

**INTERHOUSE**

(Continued from page 1)

"Kubla Khan" theme social chairman Bill Graham found hard to explain. Undaunted by this incongruity, Flemingites are planning all the things that go with an oriental theme—burning incense, fluorescent fountains, a "pleasure dome," and an opium den.

**Dabney's drunk**

"Intoxication" will be featured in Dabney's decorations. Chairman Sol DePicciotto explains that it's the "romantic" kind of intoxication and not the more common type. Dominating the courtyard will be an oversized champagne bottle and glass, along with a giant table-dance floor. The universal symbol of this pleasant mood, a pink elephant, will keep watch over the dancers. Tony Iorillo and his musical group will be featured in Dabney's night club.

**Blacker's buccaneers**

Taking their biennial turn at flooding a courtyard, Blacker has spent the last week attempting to create a "square-rigged, three-master pirate ship" out of the pile of lumber they have acquired.

Blacker is also planning to disguise the Ricketts wall by making it a cliff, complete with lighthouse. Murray McEachern will supply the music for any shanghaied landlubbers.

**Ricketts drowned**

"Atlantis" will be Ricketts rendering this year. Seascape-happy couples can begin their underwater tour at the "beach" in the Ricketts-Fleming patio. From there, they will wend their way through a "grotto" ruled by King Neptune, past a model of the sunken city, and into the fish and seaweed domain of a real, honest-to-goodness, LIVE mermaid. Dick Jaffe and his musicians will play for the mermaid, octopus and any couples who haven't drowned.

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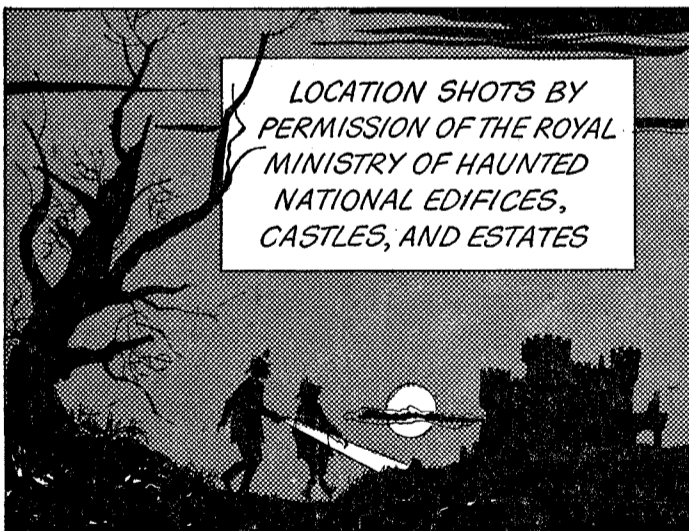
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