

The California Tech

California Institute of Technology

Volume LIX

Pasadena, California, Thursday, October 31, 1957

Number 5

Tech spearheads Hungarian Relief

Caltech proved the spark that touched off the success of the Hungarian Relief program among colleges of the Pacific Southwest last fall, according to Y Director Wes Hershey and fig-

Mass rally to star Pauling

Caltech's Dr. Linus Pauling and Congressman Chet Holifield will be the guest speakers at a mass rally to direct world attention to the dangers of nuclear fallout to human beings.

The rally will be held at 2:30 p.m. this Sunday, November 3, in the football field of Van Nuys High School. The rally is expected to attract about 3000 persons from all parts of Los Angeles.

Leonard Shane, radio-TV commentator, will introduce Holifield, who is chairman of the Special Subcommittee on Radiation, and Pauling, Caltech Nobel Laureate and Chairman of the Division of Chemistry and Chemical Engineering. Many religious leaders and notables from the entertainment world will also be present. The mass meeting is sponsored by a group of churchmen and civic leaders.

Vote due on amendment

A special vote of the student body will decide today the fate of a proposed amendment to the ASCIT By-Laws supported by Reed Saunders, Big T Editor. The amendment, which will be added to Article XII, Sec. 7, "Big T Assessment" reads as follows: "An additional assessment of two (2) dollars shall be made to cover costs of individual portraits which shall be taken with-

ures published recently by World University Service.

ASCIT acts fast

As the first reports of the Hungarian revolt arrived in this area, ASCIT voted to contribute \$1000 to Hungarian relief immediately, while Rube Moulton, ASCIT vice-president at the time, informed many other California schools of Tech's fast action, suggesting they follow an identical procedure.

The result of these activities is seen in the fact that the total amount collected in the WUS charity drive set an eight-year record of \$41,107.11, with \$23,392.03 earmarked for Hungarian relief.

Tech students generous

Caltech students gave an overall total of \$2,051.85 in the drive, the fifth highest total for all colleges and universities in California, Arizona, Nevada, and Hawaii, and the second highest per capita.

The money for Hungarian relief was used in assisting the 6,800 students who escaped to the West and in placing 100 in American colleges. The rest of the WUS funds were distributed among 37 other countries, for such things as student housing in Cairo and Jerusalem, tuberculosis sanitariums in Japan and India, and other emergency situations.

out additional charge. This additional assessment shall be payable upon registration day first term. The prerequisite for exemption from payment of the above assessment shall be a written recommendation from the Dean."

As required in the By-Laws, a meeting of the student body will be held, although high sources proved ignorant of its time or location.

"Balloting will begin about 11 a.m. and end about 4 p.m." conjectured Reed Saunders, election committee chairman.

Clark invades new field; adds novel to musicals, TV shows, faculty skits

by Bill Bauer

No longer can Tech scientists and engineers be credited with a virtual monopoly on creative effort at the Institute. With the publication in early spring of his first novel, Dr. J. Kent Clark, associate professor of English, will demonstrate again the correct position of the Division of Humanities.

167 750-word themes!

Clark's book, "The King's Agent," was completed during the summers of '56 and '57, in addition to what spare time he could find during the academic year. The novel is 125,000 words in length, which is the equivalent of writing a 750 word theme every day for six months. When asked what it is like to write a full-length novel, Clark replied, "I got in the habit of staring at my typewriter for long periods of time."

"The King's Agent" is concerned with the period of the Glorious Revolution in England, during the reign of King James II. Its plot is actually the reverse of "Crime and Punish-

ment"; the chief character develops the idea of assassinating James II in order to prevent the revolution, but can never quite get up the nerve to go through with his plans. His scheming and procrastination finally lead to his downfall, and he is executed, never successful in his self-appointed mission.

Techmen will find it easy to recall the past literary efforts of Clark on the local scale. During the preceding four years his campus successes have included three faculty shows, three shows

for the PTA, and, as the frosh will recall from the Frosh Camp program, several humorous skits.

Musicals, too.

His outstanding success up to this time was a musical comedy entitled "Take Your Medicine." This was produced in Pasadena last spring with notable success, and will be performed again later this year by the Theater Americans. This production, which contains a musical score of ten numbers, is the result of a collaboration between Dr. Clark and Elliott Davis, a Pasadena attorney. Three other songs, also the result of this combination, will soon be heard on a western television series.

Currently he is working on a biography of Thomas, Earl of Wharton; he also plans to write more fiction. In a somewhat different vein, he is collaborating with a local judge on a series of five television shows built around legal themes, three of which have been completed. Moral: watch your TV set.



Kent Clark

Beavers meet Poets in Rose Bowl Friday night

"Tech" wins honor rating; among best in division

The California Tech was awarded First Class Honor rating in its class, it was announced this week by the Associated Collegiate Press.

This rating, based on the issues of third quarter last year, placed The Tech fourth among the 35 newspapers in its class. As judged by the ACP The Tech received 1835 points on a scale of 1800 as excellent; a score of 1900 would have brought home the coveted All-American rating won this year by only two college newspapers among the 35. The ratings are based on evaluations of such points as coverage, content, and physical makeup; these headings include such things as news and feature copy, balance of coverage, editorial content, sports writing, page makeup, and typography.

The Associated Collegiate Press is a national organization intended to provide college newspapers with professional guidance and rating. The All-American Critical Service, under which The California Tech received its rating, is the most important function of the ACP. It also conducts a news service and sponsors a national conference of college newspaper editors each year.

Expert expounds on nature of inventions and inventors

(The nature of inventions and inventors is the topic of the second of a series of articles on patents by Roland Smoot, Associate Patent Counsel for Caltech.

In the previous article of the series, Smoot decried the lack of patent know-how among engineers and scientists and pointed out the benefits, financial and otherwise, due to patents).

by Roland Smoot

This is the second in a series of articles concerning the protection of industrial property and relates to the procedure by which you as an engineer obtain a patent.

In general, there are four steps necessary in the obtaining of a

patent:

(1) You must have made an invention or a discovery.

(2) Consult a patent attorney.

(3) Have a patent application prepared for the patent.

(4) The patent application must be reviewed by the Patent Office prior to its actual issuance.

These steps will be discussed in order.

Stigma on inventors

To be entitled to a patent, you must have made an invention or a discovery. You must be an inventor. There is apparently, in parts of our society, some form of stigma associated with being an inventor. A great

(Continued on page 8)

Whittier to unveil strong ground game

by Steve Emanuel

Tomorrow night the Rose Bowl will host the game of the season for Tech. If Bert LaBrucherie's crew gets past the Whittier Poets, the Beavers will be favored to cop the conference crown.

Poets go on ground

If it is a big word, however. After losing the season opener to Santa Barbara, 13-0, Whittier has smashed the New Mexico Highlanders, Barstow Marines and Occidental, scoring at least five touchdowns per game. The Poet offense is conducted mainly on the ground, led by two outstanding backs: Max Fields and Les Paden. Fields has an average of 13.7 yards per carry, while Paden will be remembered as the winner in both hurdles events of the Tech-Whittier meet last spring.

On the positive side of Tech's ledger is the combination of Dick Van Kirk and end Fred Newman, suddenly and spectacularly coming to life against Cal Poly last weekend. Also, Ed Krehbiel will be back in the lineup to provide much needed power for the Beavers. Luckily the Poets have no passer, while Tech does. Careful and skillful use of Krehbiel and Van Kirk could confound Whittier enough for an upset.

Cal Poly rough

The pro-football tactics of Cal Poly last week will undoubtedly cause some gaps in the Tech lineup tomorrow night. Tony Leonard very likely will not play, and the chances of Hal Forsten appearing are slight. At the beginning of the season, LaBrucherie said that injuries would be his worst enemy. Unfortunately for Caltech, he was right; injuries have hurt the team tremendously.

Juniors host dance Friday

The season's first after-game dance will follow the football game with Whittier this Friday night, as the junior class hosts couples and stags in Ricketts House lounge. An informal affair, the dance will feature canned music, simple decorations, and great quantities of donuts and cocoa for the hungry sports fans.

The dance will be an honest-to-goodness mixer, according to Publicity Manager Bill McClure, as many of the numerous Whittier girls have been personally invited by ASCIT to attend the game and the dance.

The junior class has been selected to provide the work and meet the expenses for this first in a series of after-game dances, to be sponsored by ASCIT in conjunction with the various classes.

Announcements

FLU SHOTS

The Health Center is administering Asiatic flu vaccine to all comers—students or faculty.

MISSING KEY

Vince Taylor, rm. 17 Ricketts, has lost a key chain with a white rabbit's foot attached.

GOLF TEAM

An organizational meeting for varsity golf is scheduled for Friday at 1 p.m. in the gym, Ed Shuster announced today.

DANCE

With Buddy de Franco going the music, Claremont College sophs invite Techmen to a dance November 2, 8:30 at the Hub. Tickets will be on sale at the door at \$2 a head.

SCOREBOARD

FOOTBALL

Cal Poly 24, Caltech 7
Pomona 50, Caltech 0 (Frosh)

SOCCER

Caltech 2, Riverside 0
Thatcher 7, Caltech 0 (JV)

CROSS COUNTRY

Caltech defeated Pasadena Nazarene by forfeit.

Editorial

Vote NO on amendment, advises California Tech

Today's election is an example of the inefficiencies that tend to accompany committee government. Here are the facts as we know them:

For years Caltech has had a bad reputation among local photographers. Caltech men frequently fail to keep their photo appointments, often come late for their pictures, and worst of all, they do not purchase additional prints. It seems that Techmen disdain to purchase the poor portraits used for year-books. As a result, the photographers have raised their rates for Caltech.

Also, for years the Big T has been unable to obtain pictures of all the undergraduates. There seem to be two reasons for this. The first is that the men hesitate to spend money, and the second is that they are not interested enough to bother with it.

Since high photo rates and a shortage of pictures admittedly is undesirable, the Big T personnel have sought to alleviate the situation this year by having the photos prepaid. This is expected to get almost all of the students to get their pictures taken, thus improving the Big T and somewhat mollifying the photographers.

With this in mind, upon hearing of the ASCIT money surplus last term, the Big T requested a subsidy to cover this year's photos. The BOD turned them down. The Big T editor then said he would circulate a petition to have the issue brought to a vote. In order to save him the trouble, the BOD itself voted to bring the proposal to the students. However, instead of referring to the student body a proposal to spend some of the surplus on Big T photos, the Board brought forward an amendment to the constitution, providing for an assessment of two dollars per student.

Since an amendment to the constitution has a somewhat permanent status, it becomes necessary to look into the future status of Big T pictures. There are then two more aspects to be considered. While taking last year's photos, the photographer recommended that photos be repeated from year to year, with only the freshmen and seniors being taken each year, as well as anyone who felt he wanted a new picture. Stan Baker and Bob Walsh, editor and assistant editor at that time, concurred. If the amendment passes, this system could never be adopted without a new amendment.

Also, there is some hope that in the future the ASCIT photo division may participate in this operation. This could conceivably affect the cost of the process.

Dick Kirk has expressed the opinion that after defeating the proposal the Board should not have brought it to an election. It is his feeling that the money should come out of the present Big T allotment, since the Big T is already "our biggest waste of money."

Although prepaid photos are desirable, at least on a trial basis, it is unreasonable to pay for them out of an increase in student payments. Already the ASCIT is running a surplus, and the Big T is inordinately expensive (as are all college annuals). Both organizations should have offered to pay for it themselves rather than increase compulsory student payments.

We must urge the student body to defeat the amendment.

(It is also of interest to note that the election is constitutionally invalid, due to failure to "publish at least seven (7) days previous to the meeting" a "notice of the meeting and a complete statement of the amendment.")

California Tech

Associated Collegiate Press honor rating: First Class

Editor—Bob Walsh

EDITORIAL BOARD

Steve Emanuel (Sports), Dave Leeson (Executive), Mike Milder (News), Howard Weisberg (Feature)

ASSISTANT EDITORS

Dave Nissen (Epicure), Dave Singmaster (Sports), John Todoroff (Copy), Lance Wallace (News)

REPORTERS

Bob Blandford, Bill Bauer, Al Carlin, Ken Casey, Eli Chernow, Gene Cordes, Frank Childs, Larry Crissman, Brad Efron, Ford Holtzman, Mike Jones, John Lango, Hal Morris, Dick Neville, Rolf Richter, Dave Spencer, Louis Stansby, Phil Thacher, Joel Yellin, Wallace Yerbovsky

Art—Bruce Allesina, Ted Bate

Photography—ASCIT Photo

Business Manager—Dave Leeson

Circulation Manager—Eldridge Moores

Entered as second-class matter November 22, 1947, at the post-office in Pasadena, California, under the act of March 3, 1879.

The Outside World

News of the World in Brief

FOREIGN

Syria drifted even further into the Communist orbit in accepting a large economic pact loan from Russia, and she continued to worry and complain about a possible attack from Turkey. Meanwhile NATO and Russia planned war games about her borders. Saud withdrew his mediation offer in the interests of Arab unity at the request of Shuki al-Kuwatly, president of Syria; earlier in the week, Turkey had accepted the mediation of King Saud. Henry Cabot Lodge had managed to suspend debate in the UN on Syria in hopes of mediation success, but now there will probably be a UN commission investigation at Syria's behest.

France

In desperation France is looking to Guy Mollet to form a cabinet and end their government crisis. Mollet's previous left of center cabinet fell on the tax question, and before he can form a new cabinet he must modify his ideas on high taxes and rigid price control. Meanwhile, French workers struck in protest of the rising cost of living. There is also a general demand for a governmental reform to introduce a little more stability into the French political machine and especially the cabinet or executive branch.

Russia

Russian removal of Soviet Defense Minister K. Zhukov caused a flurry of interesting rumors in the West but resulted in nothing concrete in Moscow.

Guatemala

Guatemala has been in an upheaval lately over a protested presidential election. The los-

ing candidate, General Fuentes, claimed fraud and with the army and the mob at his back succeeded in establishing a three-man military junta in place of Luis Lopez's provisional government.

Norway, Denmark, Sweden, and Finland are establishing a customs union with 80.0% free trade, a common tariff wall, abolition of trading quotas among themselves, and general economic cooperation.

DOMESTIC

Harold Macmillan, Prime Minister of England, and President Eisenhower discussed the Mideast, scientific cooperation, and missiles; they parted after setting up study groups on nuclear problems and rockets. They also decided to hold a NATO conference in the Mideast. Later, Macmillan emphatically turned down a Russian offer of a "summit" discussion of world problems.

Herbert Brownell stepped down from his position as Attorney General and was succeeded by William P. Rogers. Rogers is a close Nixon friend and strategist.

Teamsters

Hoffa was banned from the presidency of the Teamster's Union but no master of equity was appointed to run the union affairs. To cap this off, the AFL-CIO has suspended the union and will recommend expulsion in December unless Hoffa goes out and a special committee of the AFL-CIO is allowed the power to correct abuses. Two other unions were also given a similar ultimatum.

THACHER

Secretary's Report

STUDENT COMMITTEE ON EDUCATIONAL POLICIES

The following students were appointed to the SCEP: Wally Baer, Dave Lange, Dave Leeson, Sid Leibovich, Andy Perga, Kirk Polson, and Dave Spencer.

There will be an organizational meeting of this committee this week.

TENTATIVE DEAN-STUDENT CONFERENCE

The following were appointed to do preliminary planning for a conference of Deans and Students from technical colleges which would be held some week during the spring term: John Emmett, Dennis Hamilton, Tony Howell, Dave Leeson, and Harry Spertus.

Since there is a possibility of student attendance at the biennial dean's meeting between Caltech and MIT the planning will be directed so that for the most part it could also be applied to the Caltech-MIT conference. The biennial deans' conference will be held at MIT this spring, and if students attend, it would preclude any other conference. The question of student attendance at the deans' conference hinges on the availability of funds from the sponsoring foundation. Within a few weeks this question will be settled and the committee will go ahead on full scale planning for which ever conference will be attended.

MODEL UNITED NATIONS

The appointment of the chairman of the Model U.N. delegation was postponed until next week, because at least one person who had expressed interest was unable to attend the meeting. Mike Talcott and Bob Walsh are the present candidates.

INSTITUTERS

Bill Kern was appointed to head the Instituters.

PUBLICATIONS COMMITTEE

The report of the publications committee will be completed during this week and will be available to anyone interested through Bill McClure.

Michael Godfrey
ASCIT Secretary

While the Other Half Starves

It could only happen in the United States. While over half the world enjoys an inadequate diet, the Department of Agriculture laments the prospect of the third largest crop in the nation's history. For at latest report the government had \$7.5 billion invested in surplus farm products, including enough wheat to feed the nation for a year and enough cheese to give a pound to every man, woman, child, and rat. Last year the Department spent \$3.4 billion for price supports, surplus disposal, and direct payments to farmers, including \$500 million in soil bank payments, for taking land out of production. Yet production will probably be less than one percent less, as a result. And \$3.4 billion would build quite a few rockets, not to mention schools.

Farm incomes still drop

All this money is supposed to help the farmer. Yet until this year farm income has been dropping steadily for five years; the per capita farm income is only 45 percent of the non-farm income even though one-third of the reported farm income came from non-agricultural sources, such as part-time urban employment. Capital investment, on the other hand, is \$15,200 per farm worker as compared with \$9,600 for the industrial employee. But the average wage for all farm workers is \$0.78 per hour as compared with \$1.98 in industry.

Something is wrong. What?

An economically unorganized industry

The clue lies in two other figures: The average capital investment per farm worker was \$3,500 in the early 1940s; although the agricultural population comprises only 13 percent of the total, it is organized into 5.0 million independent units as compared with 4.2 million units in all other segments of the economy. In other words, agriculture is the only major economically unorganized industry and is experiencing a tremendous mechanical revolution.

At present the Government has three principal farm aid programs:

(1) Price supports. The U.S. gives crop loans to farmers; if the price goes above the loan level, the farmer sells the crop and repays the loan; if it goes below, the government takes the crop. However, farmers are virtually forced to abide by quite liberal acreage quotas. In addition, the government makes direct purchases of farm products.

(2) Conservation payments. The U.S. will pay farmers for making improvements which improve soil conservation.

(3) Soil Bank. The government will also pay farmers who take land out of production, thus supposedly cutting production and "banking" fertility.

(Continued on page 7)

EPICURE

Dave Nissen, Ed.

DINING OUT

The quest of fine eating in Pasadena, noticeably hampered by the student house kitchens, led Epicure a merry chase about the city in the past months. For those who are fed up (?), I offer this brief guide to the somewhat meager resources of our fair city.

For good food and the best prices, **Dino's** out on Colorado is my choice; great minestrone and Italian food except for pizza which is lousy. **Sunny Italy** south of Colorado on Rosemead serves the best pizza this side of Sorrento, (I've tried). It's more of a joint, but the pizza is worth it.

For a good meal at medium prices, the **Chef's Inn** on Colorado east of Rosemead is nice. There's a big bar piano and everyone gets loose and happy, and "the magic of their singing casts its spell." **Le Bayou** on Lake south of Green is nice for a change and it's close.

Mr. Steak, east on Foothill, has an impressive atmosphere and is cheap. Five bucks, tip included, is nothing for the impression of a steak dinner on the dolly.

The **Track**, up on Green, is the perfect escape from lice on rice, with a real edible steak sandwich.

For the best food in Pasadena, **Monty's** south of California on Fair Oaks is the place, with thick beautiful steaks, just charred a little on each side, and the greatest green salad in the city. However, this is not for the soul who reads the menu from right to left.

Talk o' the Town on Foothill east of Rosemead is under the same management and is even ritzier. As before, all scientists should stay away.

Good luck, and maybe they'll raise your scholarship.

NISSSEN

Troubador Stage. Those who seek something just a bit different in the way of entertainment will find an evening of most enjoyable folk music presented at The Troubador Stage in Hollywood. Singing alternate hours are Sir Lancelot, a clever calypso singer of some repute, and Cisco Houston, who sings American folk music with a booming voice reminiscent of Tennessee Ernie Ford. Both accompany themselves skillfully on the guitar.

There is no minimum or cover charge. The little lady and I found the menu limited, but the food was excellent and inexpensive. The bar is expensive, with good selection. The main attraction, however, is the show; both singers were so good in their own way that it would be impossible to say which was more enjoyable. The atmosphere is informal and warm.

For a really unusual date with a minimum of expense and a tremendously enjoyable show, try The Troubador Stage, 3213 Riverside Dr., in Hollywood.

LEESON

CINEMA

Jeanne Eagles.

Kim Novak portrays the ambitious and talented girl who rises to stardom in the Great American Tradition of treachery and deception. But, even when she was on top she did not forget her years of struggling and she always did her best to make others struggle. *Demon rum* (gin) was her final undoing as she fell out of marriage to Joe College and into the close association and financial support of Jeff Chandler until her early death.

The acting and direction were quite good and if you like morbid biographies this is your meat; if not, the picture is not

(Continued on page 4)

Campus Brewins

Dramatics dull

Beak perammed to Dramatics Club's reading of *Hank IV*. 206 Dabney was filled to the brim. The highlight of the evening came when some obscure person in the play said, "let us leave; our wives are coming." Everyone did, including the beak.

Bell babied

Clod Bell is making the most of his flu. Word drifted back to the beak that last Saturday there were four sweet young things surrounding the afflicted

one. Beak thinks that this fellow has really got a set up. Four honeys to nurse a flu victim back to life seems like more than enough.

Poison punctured

K. Polswine sat whispering sweet nothings into Alexander Bell's slot machine. "Do I bore you?" quoth our hero. Her answer is forever lost to history, due mainly to the efforts of Uncle Gordie Huges. Huges having lost his chance to bore any choice females for a week, picked on pal Polswine for his

augural efforts. Electric drill in hand he bored through the telephone shelf upon which was seated our hero. Polswine was last seen muttering obscenities as he headed off towards the health center for a tetanus shot.

Dabney damned

Monday night rolled around and not a single Darb to tell the Beak about anything. Surely something happened in Dabney but it was too obscure for Beak to latch on to. Beak pleads with the Darbs for something to hap-

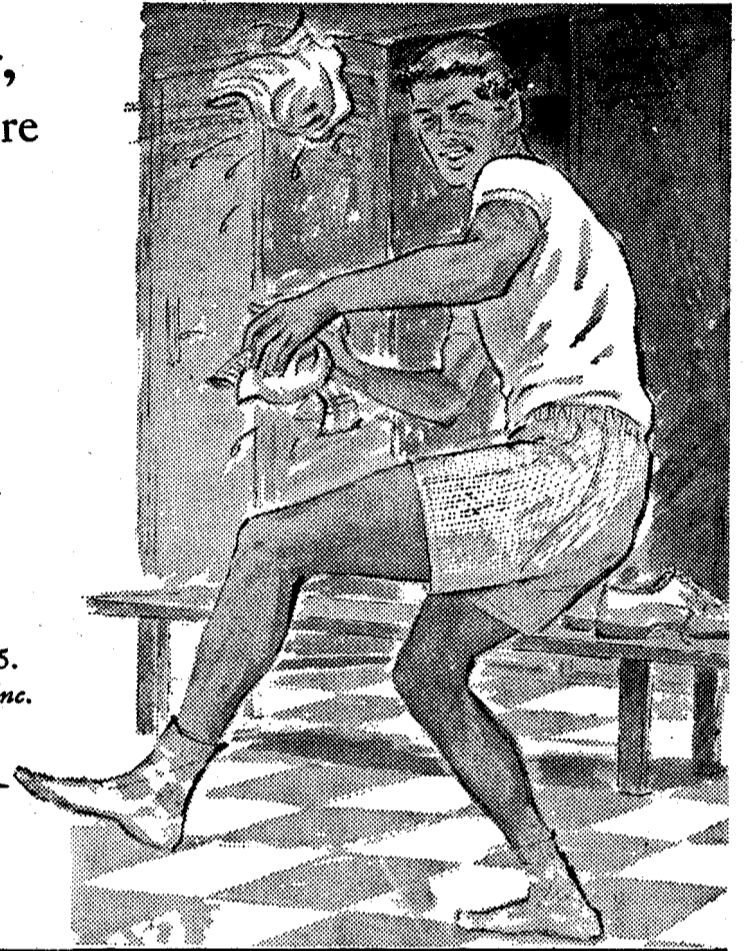
(Continued on page 5)

No bind, no sag,
no wonder they're
so popular!

Arrow shorts give you comfort in any position. The new contour seat provides total freedom of action, prevents sagging and binding. Choose the boxer type with all-around elastic, or the snap front model with elastic at sides. Solid colors, stripes, miniature plaids, checks and novelty designs. \$1.50. Arrow Tee Shirt, with special non-sag neckband, \$1.25. Cluett, Peabody & Company, Inc.

ARROW →
first in fashion

SHIRTS • TIES
HANDKERCHIEFS • UNDERWEAR



A new idea in smoking...

Salem refreshes your taste



Created by R. J. Reynolds Tobacco Company

- menthol fresh
- rich tobacco taste
- most modern filter

Refreshing! Yes, the smoke of a Salem is as refreshing to your taste as a dew-sparkled Spring morning is to you! Now get the rich tobacco taste you love, with a new surprise softness and easy comfort. Through Salem's pure-white modern filter flows the freshest taste in cigarettes. You take a puff . . . it's Springtime!

Smoke refreshed . . . Smoke Salem

THE BARFLY

by Larry Crissman

Greetings are hereby given to all thirsty Caltech students. It is my pleasure this week to lead you into the wondrous world of cogeniality mixed with alcohol. It will be my pleasure because I had to try the recipes beforehand to be sure of their merits.

The idea of this column is to introduce new and powerful inebriating beverages to your bottomless pits. We try to keep you informed on the various merits of all types of bottled and canned enjoyments, so that you will be able to reach that ecstatic state of blissful mindlessness with the extreme of pleasure, quickness, or cheapness that you desire.

Vodka Martini

I have a couple of good drinks for you gin and vodka drinkers on tap for this week. I am sure that you are all familiar with the Martini, a cocktail consisting of much gin and very little ver-

mouth. By substituting vodka for the gin and using a trifle more vermouth, a novel experience can be had, your first Vodka Martini. It's a good idea not to drink them too fast or too liberally until an immunity is built up, since I don't think the health center has shots for them yet.

Gin Buck

The Gin Buck is a summer drink, but considering the California climate, I don't think it is out of order. For those using more than three jiggers of gin, it is recommended that it be drunk while securely situated in a large chair.

Gin Buck

- 1 Tall Glass
- 2 Ice Cubes, medium
- 1/4 Squeezed Lime
- n Jiggers Gin

Let n be any positive integer. Add 7-Up to fill the glass.

EPICURE

(Continued from page 3)
entertaining and rates a dull thud.

CHERNOW

Action of the Tigers.

Van Johnson is a nonchalant man of the world who makes his living by smuggling children from Albania to Greece. His plans are upset by a beautiful and rich woman who wants her brother, an ex red wheel, smuggled to Greece by herself and Johnson. Rather than send the load of children to Greece with the returning first mate and ruin the plot, they take the four kids with them. The caravan grows rapidly and is successful in spite of dubious help from the local outlaws and much more dubious opposition of incredibly stupid guards.

The picture thus illustrates: (1) all communists are either stupid or secretly on our side, (2) the hero will fumble through to victory in spite of anything he may do. However, due to the poor quality of other action pictures this is relatively good and rates two sharp clear bells.

CHERNOW

A LA CARTE

Annie Get Your Gun: Philharmonic, Ne Sun., 8:30; Wed., Sat., 2:30.

Opinion

Human Review

The point of the article two weeks ago was developed at great length, but it can be stated in one sentence: People in charge of honor systems should concentrate on making cheating less profitable because this will make fair play more common in college and will build a better moral character for later life. So here are a few suggestions for instructors to think about.

Career: Ivar, N 8:30.
El Dorado: Las Palmas, Ne Mon. 8:30; Sun., 2:30.

Fool Me Twice: Circle, Fri., Sat., Sun., 8:30.

Pajama Tops: Civic Playhouse, Ne Mon., 8:00; Sat., 10:45; Disc.

Pariscape: Moulin Rouge, Tue.-Fri., 8:30, 11:00; Sat., 8:30, 12:00.

Drunkard: Theater Mart, Thur.-Sat., 8:30.

The Man on the Stick: Pasadena Playhouse, Ne Mon., 8:30; Sat., 2:30.

Witness for the Prosecution: Players Ring, Ne Sat., 8:30, 10:45.

Opera:
Ariadne auf Naxos; Shrine, Fri., 8:00.

La Boheme: Pasadena Civic, Sat., 8:30.

Dirty work at the Crossroads: Barn, Thur.-Sat., 8:30; Disc.

School for Brides: Forum, Mon.-Sat., 8:30; Sun., 2:30, 7:00; Disc.

N-Nightly
Ne-Nightly except
Disc-Discount tickets avail-

Open book tests should be given whenever possible. Frequently the rationale for a closed book test becomes antiquated. Instructors should watch out for this and should think carefully before making any test closed book.

At the end of a course an instructor might ask for some original work and count it in as a fraction of the grade. This project should not be graded much on a curve or else a lot of throat slitting would ensue.

It might not be too out of place for some science professors to ask for a short, coherent summary of the term's work.

These obvious recommendations are fairly cheat-proof and are a closer approximation to real life than, say, closed book tests.

A final idea is that BOC members might think about what they can recommend to instructors to prevent repetitions of particular cases they try. If they see that a particular custom leads to many violations they should think of ways to remove the temptation.

Next time I'd like to move away from such subjective articles by reporting on the San Francisco "renaissance" which is getting so much nationwide publicity.

Sticklers!

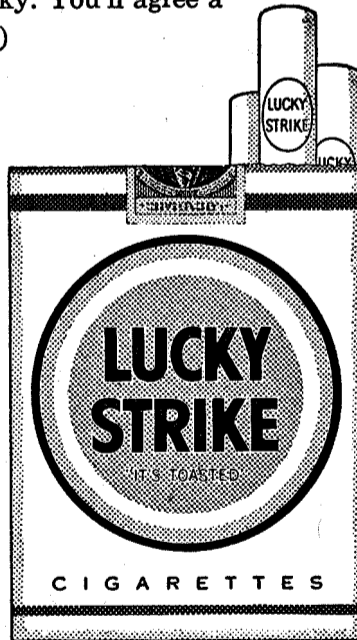


NO SORRIER WARRIOR exists than the one without Luckies. What's he missing? A smoke that's as light as they come! End to end, a Lucky is made of superbly light tobacco—golden rich, wonderfully good-tasting tobacco that's toasted to taste even better. That's a lot to miss out on—no wonder our chief has grief! Up North, you'd call him a Blue Sioux; back East, a Bleak Creek. But out in the land of the pueblo, he's just a mighty *Mopey Hopi*. (Smoke signal to you: Light up a Lucky. You'll agree a light smoke's the right smoke for you!)

STUDENTS! MAKE \$25



Do you like to shirk work? Here's some easy money—start Stickling! We'll pay \$25 for every Stickler we print—and for hundreds more that never get used. Sticklers are simple riddles with two-word rhyming answers. Both words must have the same number of syllables. (Don't do drawings.) Send your Sticklers with your name, address, college and class to Happy-Joe-Lucky, Box 67A, Mount Vernon, N. Y.



WHAT IS A MAN WHO CLASSIFIES ARTILLERY?
Mortar Sorter
WILLIAM BOBBITT, MEMPHIS STATE U.

WHAT IS A HEALTHY BEAGLE?
Sound Hound
MARILYN CAFFARY, ANNHURST COLLEGE

WHAT IS A DANCE IN FRANCE?
Gaul Ball
JOHN COFFEN, CARNEGIE INST. OF TECH.

WHAT IS A SNAZZY STRINGED INSTRUMENT?
Sharp Harp
GEORGE FRAZER, CHICO STATE COLLEGE

WHAT IS A BRICKLAYER WHO'S ABOUT TO BE A FATHER?
Maternity Ward
Pacin' Mason
RICHARD BENTLEY, YALE

WHAT IS A FIGHT BETWEEN TWO MIDGETS?
Small Brawl
RICHARD BOEGLIN, NEW MEXICO COLLEGE OF A. & M.

LIGHT UP A light SMOKE—LIGHT UP A LUCKY!

© A. T. Co. Product of The American Tobacco Company—"Tobacco is our middle name"

We Highly Recommend
CALTECH BARBERS
Friendly Personalized Service
California Near Lake

STATION WAGON SHOE REPAIR
All types of Shoe Repair
Complete Selection of U.S. Keds
920 E. California, near Lake
SY 2-9787
Bring this ad with you for repair discount — save 10%

CALTECH PRESCRIPTION PHARMACY
Prompt Free Motor Delivery
CALTECH VITAMINS
Caltech Genuine Wheat Germ Cereal
CALOID COLD CAPS
NEW, EFFECTIVE REMEDY
Imported & Domestic Wines - Liquors - Champaigne
Breakfast, Lunch, Dinner SERVED DAILY
Corner California & Lake

BREWINS

(Continued from page 3)
pen in Dabney, anything at all. Nothing, nothing at all happened to the gentlemen this week.

Jon jests

Our friend Jon Tidbits was at a dinner party the other night when he noticed a lull in the conversation. Looking over at the lovely young thing he noticed that her plate was empty. Thoughts like "I bet I can drink you under the table" went through his mind but to make it apropos he charmed forth with "I bet I can eat you under the table."

Dabney saved

McClure came through with flying colors at the BOD meeting last Monday (Holtzman, attention!) Quoth he, concerning the forthcoming selection of Homecoming Queen candidates: "It's too bad we can't get this thing more on a Plug In and Grind basis."

Yeah.

Rabble roused

The Flems toddled off for the Pershing Square Stay with K.K. K. Hathorn in tow. This sweet rabble rouser had a corner all to himself while he preached on the inevitable rise of scientists to rulers of the earth. Meanwhile the troops spent happy hours trying to convert one of Church. In a fit of 69th Gospel spirit, they finally invited him to dinner.

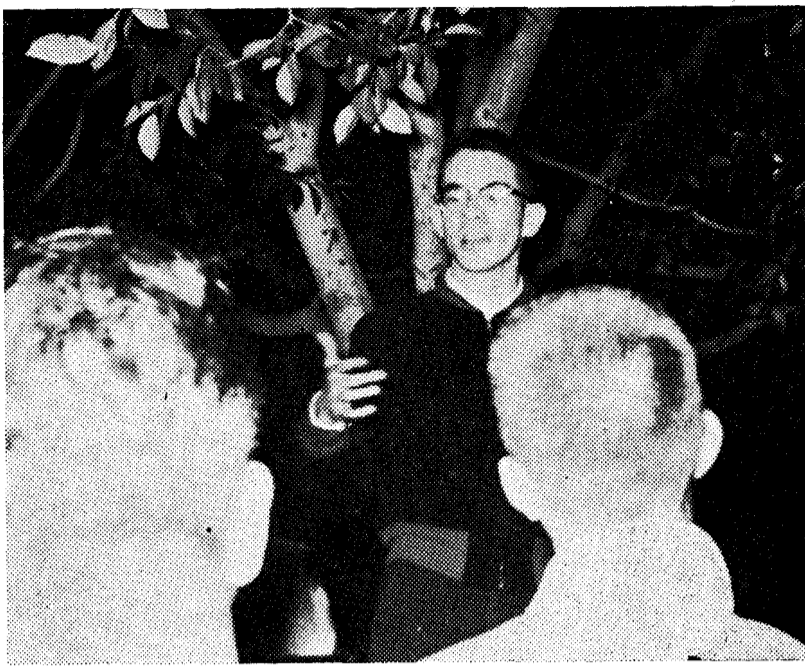
Note pictures at right.

Clint caught

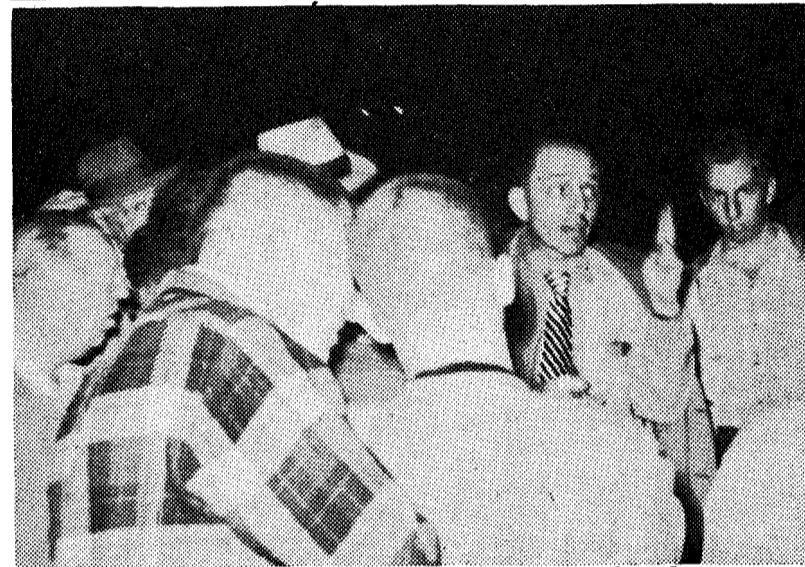
R. Montgomery offered to show his parents the Picasso exhibit in Dabney Lounge last Friday night. When they got there all was dark, but Monty came to the rescue by turning on the lights. This was a sad and unfortunate mistake for there in one corner of this previously dark room sat Clint Frasier and woman with very owl-like expressions on their faces. Monty's mother wondered what that slup slup noise was when they first came in.

Jealousy

Oilcott is having high school troubles again. Booming over the wire came a rather gruff voice saying something about his weight being 230 and his temper being up. It came out that one Bruce Gary from University High was rather put out with Oilcott for taking his girl out the other night. Now Oilcott is not a tiger so Beak can but assume that this is one more



"Yes friends," said Tuckah, "The vector truly raises some philosophical questions." "Oh a vector, that's someone who works in a church." "You mean Vicar." "No, he means rector."



Square man expounds theology to assorted audience.

in the long line of ex-women in the harem.

Motor moved

Frustrated Soph Bill Benisek: "Jeez, the motor won't start!" pause "Jeez, the motor's gone!" Poor Bill found to his dismay that someone had swiped his carb and manifold. This sounds like a job for Fig Newton, Detective Detective.

Grad grab

The Beak relieved a few of his numerous frustrations Saturday night by crashing the Grad-Student "Sputnik" party, along with Blackermen Akselgrease, W. Boor, Johnstone, and the Ever-present Oilcott. In addition to the liquid attractions of the evening, a special feature was an impromptu Frisbie game

staged rather unsteadily by House Mother Nordlander. The Beak highly recommends this sport, particularly late at night when one's date can be persuaded to help retrieve the missile from surrounding bushes.

Fisher's
RESTAURANT
and
COFFEE SHOP

3589 E. Colorado St.
A Tech Favorite
Since 1947

Open 7:00 a.m. to 1:00 p.m.
7 Days a Week

Opinion

The Bull Pen

Stop! Wait! Halt! Don't mark your evil little X on that ballot until you have had the benefit of these few, gentle words of erudition which trail on toward the bottom of the page.

First of all, this amendment to up the Big T assessment by \$2 is not exactly the world's most vital issue; I wouldn't stay up all night pondering the deep and subtle implications. Most Techmen will go tripping down to the Big T office one of these days to have their pictures taken at the cost to them of \$2 apiece whether this amendment is passed or not.

Nobody is particularly interested in getting the thing passed, except Reed Saunders. The ASCIT Board of Directors did not propose the amendment because they think it is a good thing, but rather because they felt the student body ought to vote on it (so Saunders would stop pestering the Board. Saunders had said he would circulate a petition to have the amendment proposed if the Board did not propose it.) So, you don't have to feel that you are supporting a heresy if you vote against the amendment.

The main purpose of the amendment is to encourage more people to have their pictures taken and thus enhance the caliber of the Big T. But I don't think it will work. Techmen do not fail to have their pictures taken because it costs \$2, but rather because they don't want to take the trouble to go down to the Big T office. Whether or not they have already paid their money is not going to make

much difference to most people. If the amendment goes through, the \$2 will be gone; you can't get it back no matter what you do. So why go, if you don't feel like going?

At best the amendment is harmless. In fact, it means more money down the rat hole. Not everybody is going to have his picture taken, no matter what. Consequently, not all of those little \$2 assessments are going to be spent on pictures, unless they pay a flat sum for all the pictures, in which case the pictures will cost more than \$2 apiece if they spend all the money they take in from the assessment. I think that it is safe to say that the passage of this amendment will probably pump some more of our money into the Big T budget. Or else the ASCIT will lower its subsidy to the Big T, and we will find ourselves pumping more money into the ASCIT budget.

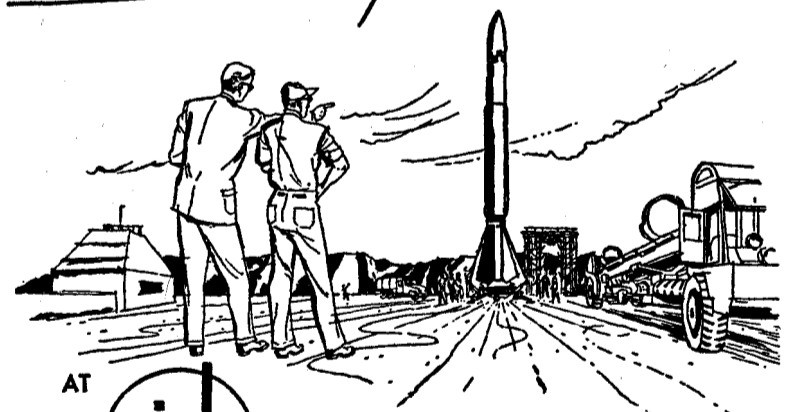
It is certainly true that both the ASCIT and the Big T need and should have certain sums of money. But do either of them need more than they are now getting? The passage of this amendment probably means that one or both of them will get more than they are now getting.

Considering some of the assinine ways they spend the money they now have, I, for one, am loath to give them any more. And, being of sound and conceited mind, I think you should feel likewise.

So let's get out and defeat that amendment.

YOUR CAREER OPPORTUNITY

in research and development of missile systems



AT



California Institute of Technology

JET PROPULSION LABORATORY

PASADENA · CALIFORNIA

Active participation in the quest for scientific truths · Opportunity to expand your knowledge · Individual responsibility · Full utilization of your capabilities · Association with top-ranking men in field

Openings now in these fields

**ELECTRONIC ENGINEERING · APPLIED PHYSICS
MATHEMATICS · MECHANICAL, METALLURGICAL,
AERONAUTICAL AND CHEMICAL ENGINEERING**

Systems Analysis · Inertial Guidance · Computer Equipment · Instrumentation · Telemetry · Fluid Mechanics · Heat Transfer · Aerodynamics · Propellants Materials Research

U.S. CITIZENSHIP REQUIRED

ON CAMPUS INTERVIEWS

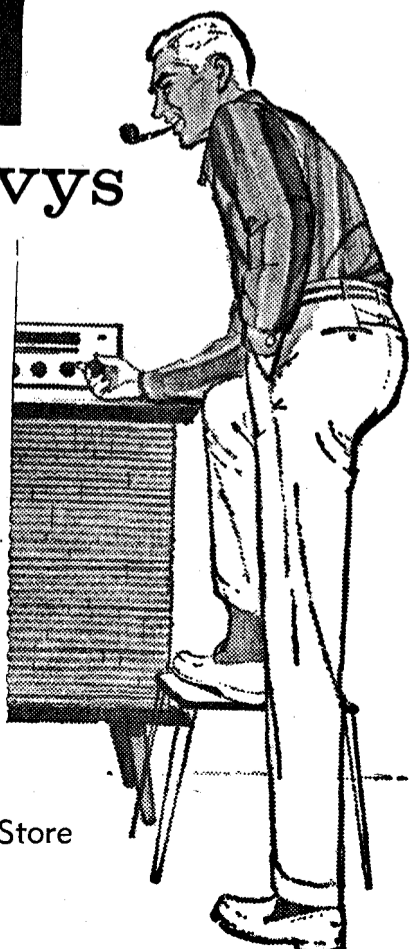
THURSDAY, NOVEMBER 7

AI Taper® Ivys

Be stylish
be comfortable
be thrifty in these
easy care
fine cotton slacks

\$4.95 to \$6.95

At your Favorite Store



Chedo Chuckovich

He's one of the few who got a second chance

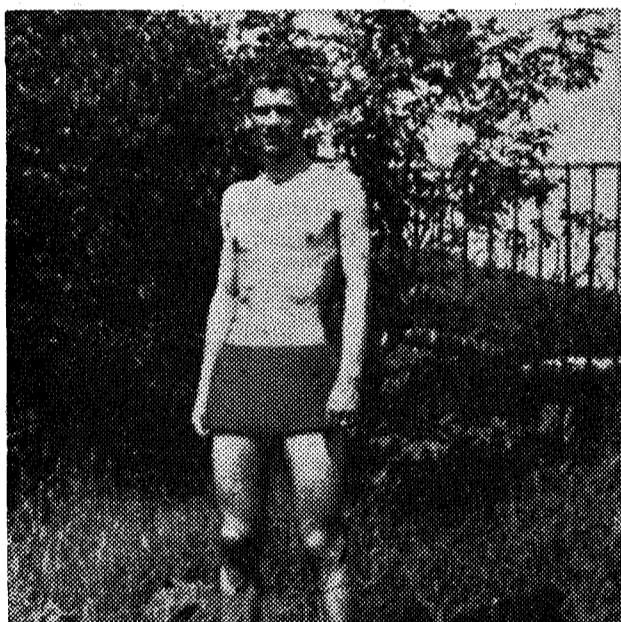


"I AM CHEDO CHUCKOVICH, lucky to live in America.

"For I have also been Chedo Chuckovich, man without a country.

"I was born in Belgrade, Yugoslavia. My father was co-owner of the Serbian-American National Bank. I had been educated in schools in France and Switzerland, and planned on a career in diplomacy.

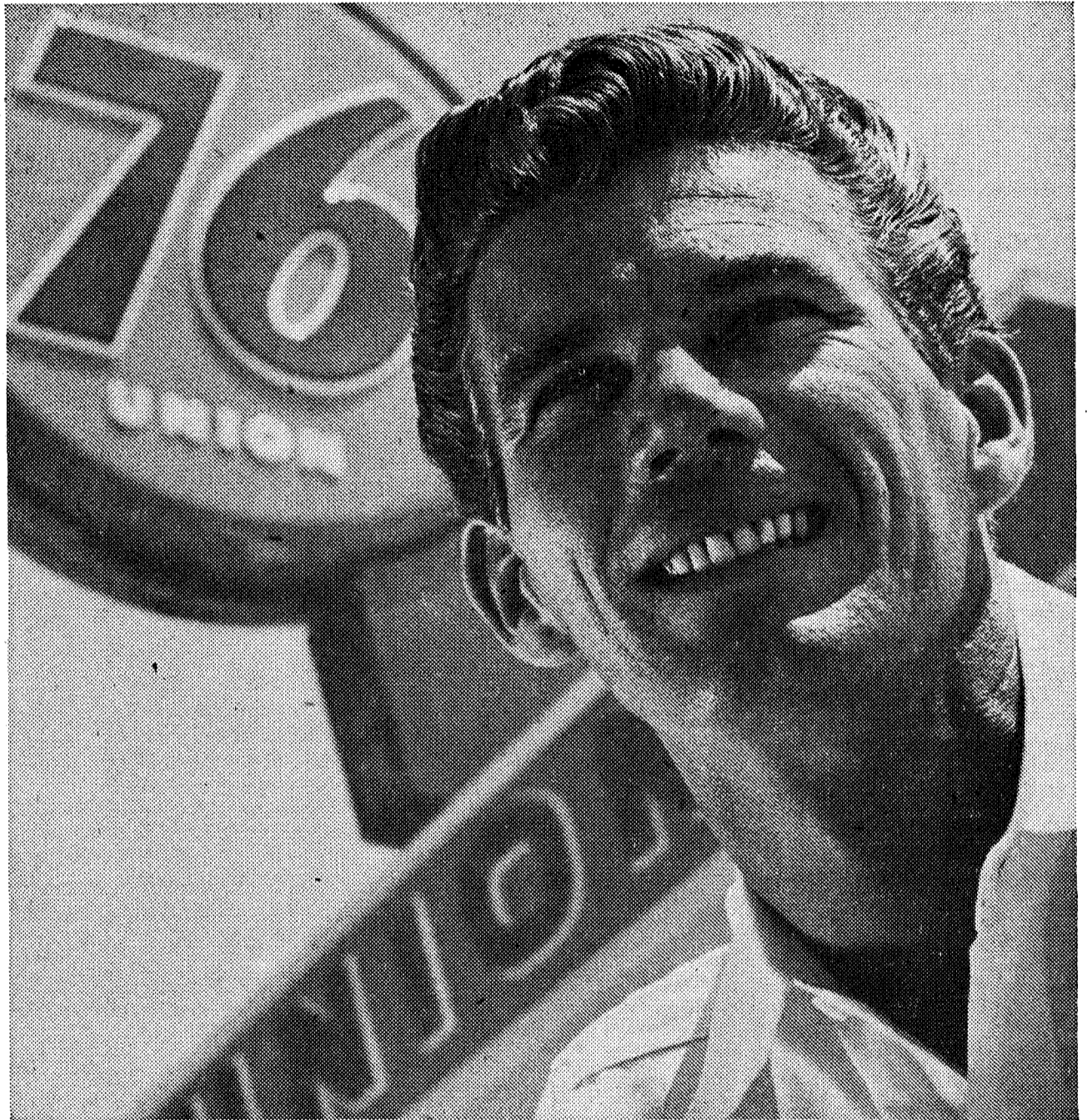
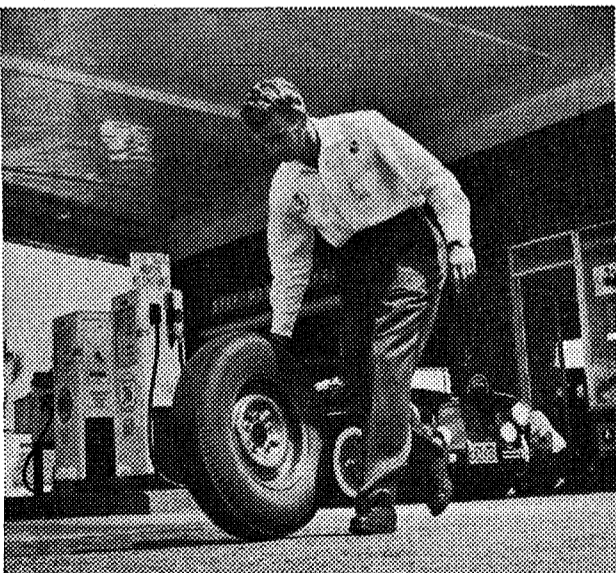
"When I was 17, the Germans invaded my country. I fled with my family into the hills, and



CHEDO, AFTER 5 YEARS IN CONCENTRATION CAMP

joined the guerillas. My father was killed. My brother was killed. I was wounded and taken prisoner, and starved for five years in a Nazi concentration camp.

"Two weeks before the war's end, the Canadians freed me. My family was dead or scattered. Our property had been confiscated. The Communists had taken over Yugoslavia. I was a man without a country.



CHEDO CHUCKOVICH: "I LEARNED THE HARD WAY YOU CAN'T TAKE YOUR FREEDOM FOR GRANTED."

"But I was one of the lucky displaced persons. Unlike so many of the others, I got to America, and a new start.

"Today I am in business for myself, a Union Oil dealer in Pacific Palisades, California. I have money in the bank, a home, a car. I have the respect of my neighbors. I have friends and a future again. I will soon be an American citizen.

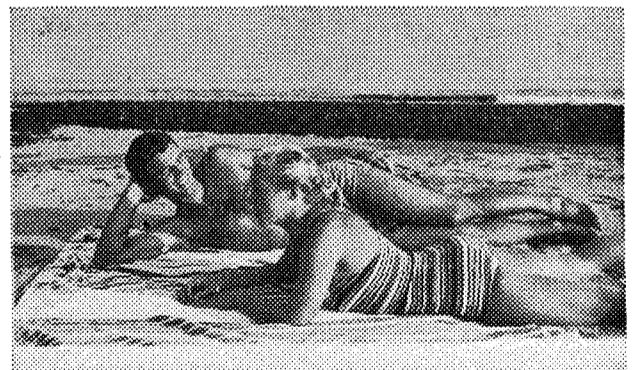
"I will work at my citizenship because I learned the hard way you can't take it for granted. You have to earn it.

"I know, because I'm one of the few who got a second chance at freedom."

* * *

Chedo's life underlines a basic truth, we believe: Wherever men would remain free, they must remain alert.

For any concentration of power in the hands of a few—whether they be business men, financiers, industrialists, government officials or labor leaders—is, inevitably, at the expense of the majority.



YOUR COMMENTS ON THIS AD ARE INVITED. Write: The Chairman of the Board, Union Oil Company, Union Oil Building, 617 West 7th Street, Los Angeles 17, California.

Union Oil Company OF CALIFORNIA

MANUFACTURERS OF ROYAL TRITON, THE AMAZING PURPLE MOTOR OIL

Cal Poly sets back Techmen, 24-7

Stellar passing defeated Caltech's gridders Saturday, and bad breaks made it a rout as Cal Poly rolled to a 24-7 victory at Pomona.

Poly's Stan Jackson-Don Hogan passing team sparked the Bronco offense, accounting for two touchdowns on 45-yard and 15-yard pass plays. Dick Gustafson scored Tech's only touchdown on a seven-yard slant from fullback.

Injuries and bad breaks weakened the Tech offense, preventing quarterback Dick Van Kirk from organizing sustained drives. Highlight of the game was a three-down series in the first half, as the officials lost count of the plays. Taking the ball on the downs in Tech territory (Van Kirk failed to punt on third down), Poly immediately marched to their first score.

Moments later Poly recovered a Tech fumble on the 15-yard line, and Jackson hit Hogan for the score. Tech came right back with a 59-yard drive, sparked by Van Kirk and Don Stocking. Van Kirk converted, and Poly led 12-7.

The Broncos next score came after an interception of a Stocking pass on the Tech 30. On the next play Hogan pulled in another Jackson pass, for Poly's third touchdown. Gene Beisman blocked the kick, leaving the score at half-time 18-7.

The orange squad outplayed Poly in the second half, but miscues killed the Caltech offense in the second half. Poly intercepted five passes in the course of the game and recovered four Beaver fumbles.

The final Bronco score came when Stocking was tackled hard while taking in a punt on the three-yard line. The ball squirted into the end zone, where the Broncos recovered it. Van Kirk and Fred Newman blocked the extra-point attempt.

The Beavers mixed brilliance with boners as Newman, Gene Stanley, and Gustafson accounted for some spectacular pass-receiving. Stocking and Gustafson were outstanding in the rushing department.

Caltech played without the services of Ed Krehbiel, Art Takido, Tony Leonard and Hal Forsen, for most of the game.

THE OUTSIDE WORLD (Continued from page 2)

Reasons for failure

These programs have failed to noticeably improve the lot of the farmer because the government cannot and will not give the farmer a substantial part of his income through direct subsidy and because the government lacks effective control over the volume of agricultural production. Without the latter it is impossible to restore agricultural marketing to a free basis, which is the only way, other than by direct subsidy, that the farmer can noticeably improve his financial position. For the current rapid increase in farm productivity means that the market will be oversupplied in the foreseeable future as long as farmers remain unorganized. Thus there would seem to be three alternatives:

- (1) Continue the status quo with its attendant and probably increasing drain on the taxpayer.
- (2) Institute effective government controls over the volume of production.
- (3) Let the farmers make out the best they can in a free market.

A difficult choice

Unfortunately, there is no easy answer; further, what may be rationally the best choice may not be politically feasible. Yet

Soccer team beats UCR by score of 2-0

by Monty

Setting an unheard-of precedent, the Caltech varsity soccer team beat the University of California at Riverside, 2-0, last weekend. Not only was this not in line with the performance of other Tech teams playing, but it was in the face of what they would consider unsurmountable odds.

In the game, the team looked good; in the second half the ball was seen only occasionally on Caltech's end of the field. Both goals were scored by Brian Grey in the last ten minutes of the game. It left the Beavers unbeaten so far this season. The audience of one parent and two dates was vastly entertained.

The next league game is Saturday, Nov. 9 at Tech, and all are cordially invited.

Harriers win; P. N. forfeits

Led by Mike Rusch, the varsity cross country team won its opening meet of the season last Monday against Pasadena Nazarene. The race was not much of a test for the Beavers as Paz Naz entered only two men. The Frosh meet was much the same with only three men entered from the cross-town school.

In the varsity meet, Reed

in my opinion (3) is indeed the best. The first is ineffective and expensive, the second amounts to virtual socialism, while the third offers some hope that 13 percent of our population can improve their unreasonably poor economic position without putting an end to a portion of what is probably their most precious possession, freedom of enterprise. Nevertheless, it will mean a period during which the small, inefficient farmer, typified by the "family farm," will be gradually forced to the wall and put out of business. It will mean the growth of large agricultural corporations, just as these have arisen in almost every other sector of our economy. But such a revolution will have some other important advantages. For one, unnecessary agricultural labor will be released for industrial work. Again, agriculture will be able to put into practice more of the scientific advances made in the field. Farmers will no longer be forced to "mine" the soil in order to make ends meet; they will have sufficient income to apply adequate soil and forest conservation measures, which are sorely needed. For it has been shown that the smaller the farm, the worse the conservation practices used.

Throop wins softball; Blacker takes distance runs

The Interhouse softball season finished up last week with results just as expected. Throop took first with a 4-0 record, Ricketts second with 3-1.

House	Won	Lost
Throop	4	0
Ricketts	3	1
Blacker	2	2
Dabney	1	3
Fleming	0	4

Blacker defeats Dabney

Wednesday Blacker clashed with Dabney for third in the final standings. Blacker found a pitcher in Wally Baer, who gave up only one walk and eight hits. Don Stern led the hitting with two triples and Wally got a single and a double. Dabney scored first with two in the first, and scored throughout the last three innings. Blacker got off to a slow start, scoring three in the third. Then came the big fourth with 10 men at bat and six runs. Blacker got a walk, a triple by Stern, a single, two errors, two singles and three outs in rapid succession to spurt into the lead for the rest of the game. Final score: 10-6.

Ricketts blanks Fleming

Ricketts waltzed through a 3-0 win over the Phlegms on Thursday to take second. Lou Montoya gave up only two hits but five walks. Ricketts' hitting netted seven safeties. Fleming started the first after one out and loaded the bases with two out; but it availed nought. Ricketts scored one in the second and

Saunders was third, Dan Wulff, fourth; Harvey Hansen, fifth; Jan Unchapher sixth; and Mike Konrad, eighth. For the frosh, a Paz Naz man won it, while Ben Burke was second; Pete Lippman, third; Dave Loebbaka, fourth; Ed Evans, sixth; and Bob Junkin, eighth.

A more likely choice

But this is the ideal; unfortunately, it seems more likely that (2) will become a reality. For as early as January, 1956, President Eisenhower recommended that Congress consider quantity allotments for cotton and other crops. And pressure is mounting on the part of the urban population to end the current immense expenditures on farm aid. Finally, there is the basic fact that farmers have the vote; few congressmen will have the courage to resist the farmer's demands.

That something will be done is becoming increasingly obvious; no one is benefiting from the present mess. And with increasing pressure for military expenditures, someone is bound to try to put an end to unnecessary federal expenditures in agriculture. And while there are some fields where federal control seems to be the only answer, as in education, here is one instance where free enterprise would probably do a better job and should be given the opportunity.

CARLIN

two in the third to frost the cake.

Throop downs Blacker

Bob Emmerling came through again to give only one run to win his fourth game in as many starts. Throop started off big in the first with four runs to ice the game and then scored one more in the second and third to make the final score 6-1.

Cross Country

For the first time in many years, five teams competed in Interhouse Cross Country. As usual, Blacker took first but active competition made the results close. On Tuesday, in the 1½ mile run, Ben Burke of Ricketts took first, with Pete Lippman of Throop second. Blacker edged Ricketts and Fleming in the first half. Friday, scores were even closer with Fleming, Blacker and Ricketts all within two points. Lippman took first, with Burke following.

House	Tuesday	Friday	Total
Blacker	17	22	39
Ricketts	19	23	42
Fleming	25	21	46

Dabney placed fourth and Throop fifth with astronomical totals.

Interhouse Standings

House	Cross		
	Softball	Country	Total
Ricketts	20	12	32
Blacker	15	15	30
Throop	25	3	28
Dabney	10	6	16
Fleming	5	9	14

CALENDAR

Friday, Nov. 1

- Water Polo at Oxy
V & Fr. 4:00 p.m.
- Football Whittier at Rose Bowl
Var. 8:00 p.m.
- Cross country at Redlands
V & Fr. 4:00 p.m.

Saturday, Nov. 2

- Football at Whittier
Fr. 2:15 p.m.
- Soccer at Cate
JV 1:00 p.m.

Tuesday, Nov. 5

- Water Polo at Fullerton
V & Fr. 4:00 p.m.

EXCEPTIONAL OPPORTUNITY

For reliable person, man or lady, with vision and ability to act immediately for a lifetime of assured income. To service route of cigarette machines established locally for operator. \$900 to \$1800 cash investment required, THE RETURN OF WHICH IS GUARANTEED IN WRITING BY US, for you to earn up to \$260 per month part time. You can net up to \$28,000 annually on a full time basis. We are an established reputable concern with the finest and oldest name brand equipment. If you have the cash and are sincerely interested please write giving your phone number and brief background for a local interview at your convenience.
L & M DISTRIBUTORS, INC.
6513 Cedar Ave. So.
Minneapolis 23, Minnesota

Opinion AS I SEE IT

by Dick Van Kirk

Caltech's varsity footballers ran into a potent passing combination last Saturday in the form of a big, fast end, Dan Hogan, and an accurate passer, Stan Jackson, of the Cal Poly Broncos, and the combination was too much for the Caltech forces to overcome. Twice Hogan scored on touchdown passes by simply outrunning the lone Beaver defender assigned to cover him, and Jackson hit Hogan with accurate long throws both times.

Caltech was hard hit by injuries during the contest. Hal Forsen, tough little senior half-back, was hit by a flying elbow in the second quarter, sending his teeth through his lower lip. The ensuing gash required many stitches and has limited Hal's food to almost exclusively the liquid variety for the past few days. Tony Leonard, junior end-fullback, suffered a knee injury in the second quarter and may miss two or three games. Hal Gustafson, Fred Newman, and Gene Stanley were also forced to leave the game for varying lengths of time because of injuries.

As a final (I hope) note about the value or uselessness of crowd noise and reaction at athletic events I'd like to reprint a comment made by a Beaver quarterback after the Cal Poly contest. He said, "On most of the plays where I passed I was rushed hard after throwing the ball. Usually I wound up on my back with two or three opposing players covering me, and the only way I could tell whether the pass was complete or not was to listen to the crowd to hear which side roared loudest. If it was our side I figured the pass was completed." So it appears that on at least one count the crowd noise was a little helpful.

Tomorrow night the Beaver footballers host the powerful Poets of Whittier College in the Rose Bowl. Be on the lookout for things like: the return of Ed Krehbiel to the Caltech lineup with a more potent running attack the result; the strong running of Whittier backs Max Fields, league-leading rusher, and Les Peden; the spectacular pass-catching of Beaver ends Fred Newman and Gene Stanley, and a new I-formation offense used by Whittier.

Hats off to the Caltech varsity soccer team which took a big step toward the league crown last Saturday by defeating UCR, 2-0. The win maintained Caltech's perfect record in competition against Riverside this year.

Welcome!

CAMPUS BARBER SHOP

in the Old Dorm

Hours: 8-5:30 Price: \$1.50

Phone Ext. 567

Two Barbers Every Day

FOR THE INTERHOUSE DANCE

She'll love flowers from

Jonker's FLORIST

One door South of California on Lake

Special rates for Caltech students

Job finders place Techmen

by Lewis Stansby

The Caltech Placement office provides a valuable service for all students and alumni who are seeking work. The office, located in 120 Throop, is headed by Dr. Donald S. Clark, a friendly man whose personality belies the "Simon Legree" sign on his desk.

Doctor Clark, who is also a professor of mechanical engineering and President of the American Society of Metals, has been Director of Placements since the founding of the service in 1935. At that time, its purpose was finding jobs for alumni in the midst of the depression.

Since that time, the office has expanded, so that now the placing of students has far exceeded the requests of alumni for jobs. The three main functions of the Placement office today are finding part-time and summer work for undergraduates, arranging interviews for seniors for permanent work, and helping dissatisfied alumni who don't like

their permanent work to change jobs.

Part-time jobs available

Most often available among the great variety of part-time jobs are tutoring, gardening, and baby-sitting. The office maintains a file of students who want each type of work, in order to fill each opening more easily. Also on file is a list of companies in each city which hire undergraduates for semi-technical work, so that the student has an opportunity to work in his home town during the summer.

As an example of both the demand for scientists and engineers, and the efficiency of the Placement office, 84 percent of the Bachelor of Science graduates who applied last year received at least one job offer through the office, and 88 percent of these accepted one of the offers. On the average, three offers were received, but this total was much higher among students who chose to

PATENTS

(Continued from page 1)

number of jokes and cartoons have appeared, and probably will continue to appear, which illustrate an inventor as something close to a lunatic. No patent attorney can deny that the lunatic fringe exists, the only distinction being made is that a lunatic with money is eccentric. Each patent attorney has had his share of perpetual motion machines, devices to promote marital accord and catamenial devices to provide small talk at a lifetime of cocktail parties.

The philosophy of egg-headism and the anti-intellectual atmosphere of large portions of the United States have also contributed to the stigma placed on an inventor. This prevalent attitude is unfortunate, but it would be catastrophic if the original thinkers in our country adopted it, because an inventor, i.e., one who makes an invention, is an original thinker.

Law tries to define

What is an invention? Unfortunately there is no definition. It is a concept like honesty and integrity. Some writers have de-

go on to graduate work. Last year, the Placement office found part-time work for 95 men, summer work for 159, permanent jobs for 103 graduates, and new work for 24 alumni.

finer invention as a "flash of genius" or "genius in excess of mechanical skill reduced to practice." The law has attempted to define it as something which would not be apparent to a man skilled in the particular field involved. You cannot patent an idea. You must patent the physical embodiment of the idea. The making of an invention, therefore, consists of two steps, and to use the language of the patent law, you must first: have the "conception," which is the idea, and you must second: have a "reduction to practice," which is the physical embodiment of the idea.

New devices

In a society whose technology is as complex as ours is today, it is not easy to be an inventor. The wheel, the clock, the automobile, the telephone and the airplane, all of which were once inventions, are common-place, but periodically the Federal Government and each major industry publish lists of new, original and therefore inventive devices, processes, and articles of manufacture that the armed forces and industry itself need.

Inventions wanted

Examples of inventions that are needed today are such things as counter-measures for guided missiles, method of capturing the power of the atom, improved

three dimensional television, materials which will withstand extreme heat and extreme cold, a cure for cancer. The list is endless, and each invention, each new and original thought which is made available to the public at large through the publication of patents encourages and stimulates others to invent and hastens the day when such things as cures of cancer will be made available to the general public. This is the strength of the patent system. Since all patents are available to the public, each new invention immediately becomes part of the general knowledge and prevents the establishment of a guild-like society where arts were handed down from father to son in narrow cliques.

Practical reason

In addition to the unselfish motivation for invention, there is a very practical reason: money—because if you have an invention you may obtain a patent, and a patent is a piece of property and, sometimes, quite valuable.

Now, having a conception of an invention which you have reduced to practice, you are ready for step (2).

We will visit the patent attorney next time.

STANDARD OIL COMPANY OF CALIFORNIA



California Research Corporation and other Subsidiaries

Representatives will be on the campus

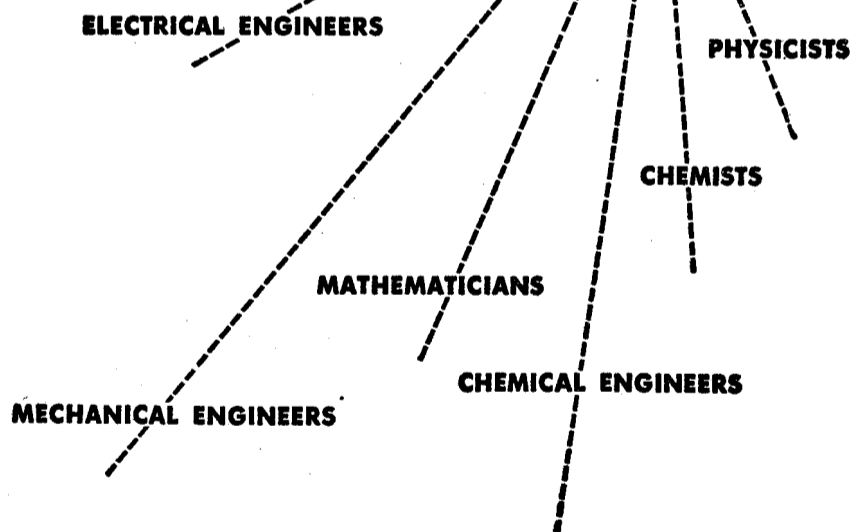
November 6 and 7, 1957

to interview

Chemists, Chemical Engineers, Civil Engineers, Electrical Engineers, Mechanical Engineers, Metallurgical Engineers, Mathematicians, Physicists

FOR CAREER EMPLOYMENT in California and other areas

MEASURE the scientific environment at UCRL



THE CHALLENGE Current projects at UCRL are at the very frontier of nuclear research. Assignments are fresh and stimulating at all levels. Here one calls upon his creative imagination—as well as his ability—to help solve fundamental problems in nuclear science.

ASSOCIATES Men noted for outstanding accomplishments in your field are on the UCRL staff. Many of them have contributed pioneer achievements in the nuclear field. You share their pioneering knowledge—and have their encouragement—at UCRL.

FACILITIES Generally considered unmatched in the field, UCRL facilities give project workers access to all the latest instruments of research—from high-speed

digital computers, water boiler reactors, particle accelerators, to facilities in nuclear magnetic resonance-electron spin resonance.

ATMOSPHERE UCRL is directed by scientists and engineers. Here you'll find the right "climate" for work and advancement, encouragement for initiative. And you'll enjoy the opportunity to work in the San Francisco Bay Area.

A UCRL staff member will visit your campus WEDNESDAY, NOV. 20 to give you complete details on future opportunities at UCRL. Contact Placement Office now for appointment.



WILBUR JUST WOKE UP TO THE FACT THAT HE'S IN CLASS!

KEEP ALERT FOR A BETTER POINT AVERAGE!

Don't let that "drowsy feeling" cramp your style in class... or when you're "hitting the books". Take a NoDoz Awakener! In a few minutes, you'll be your normal best... wide awake... alert! Your doctor will tell you—NoDoz Awakeners are safe as coffee. Keep a pack handy!

15 TABLETS, 35c

35 tablets in handy tin 69c



UNITED ARTISTS "CYCLOPS" and "Daughter of Doctor Jekyll" Student Discount Cards at Box Office

OAK KNOLL CLEANERS and LAUNDRY

Your Best Clothes Cleaned the Oak Knoll Way One Sweater Cleaned FREE With \$1 or More Order!

Bring this ad. Sorry, no white on this offer.

902 East California (4 Doors East of Lake)

SY 3-6704

Next Door to Caltech Barber Shop



UNIVERSITY OF CALIFORNIA RADIATION LABORATORY Livermore, California