

The California Tech

California Institute of Technology

Volume LIX

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Number 8

Asilomar Conference Set Dec. 27 Collegians to Find Seminars, Parties

Hundreds of college men and women from scores of southwestern colleges will gather on Dec. 27 for a week of discussions, seminars and recreation sponsored by the Asilomar Student Conference and the campus Y's of the participating universities.

Scholarship aid available

"The annual week-long camp invariably receives high praise from all who attend," announced Kent Frewing, Tech's Y regional representative, while issuing a plea for as many Caltech students as possible to attend the popular conference. All those interested in obtaining first-hand information or in making their reservations should contact the Y office. Scholarships will be available for alleviating the cost (\$46.50), according to Frewing.

Topics of discussion at the many seminars will include "Love and Marriage in the Twentieth Century," "Campus Attitudes and Problems," "War and Peace in the Atomic Age" and seven more thought-provoking and timely subjects. Leading one of the seminars will be Dr. Peter W. Fay, Caltech history professor.

Recreation

Baseball, tennis, swimming in the heated pool and a tremendous New Year's Eve party are a few of the many opportunities for recreation existing at the conference, (most or all of them co-ed).

Tech Students Donate Labor to Pala Indians

Techmen will journey to the Pala Indian Reservation this weekend for the second in a series of weekend work projects sponsored by the American Friends Service Committee. The volunteers are donating their labor to install a sewer system in the village.

According to Joel Greenberg, who spent last weekend on the project, its primary purpose is to change the Indian's attitude from one of apathy to one of willingness to help themselves.

The work camps last from Friday evening to Sunday noon, with most of the work being done on Saturday. There is considerable social contact with the Indians and with students (including girls) from other colleges. The Indians provide the Saturday night entertainment. Last weekend it was a real, live rock 'n roll dance.

Dr. Alfred C. Ingersoll of the



Camera catches fast action during Saturday's soccer game. Tech easily defeated Riverside, 7-0.

Contest Write Novel; Win Cash

Budding authors are now being offered a \$2500 prize in a novel contest for college students sponsored by the Thomas Y. Crowell Company. Any undergraduate or graduate student not more than 25 years old is eligible to enter. Manuscripts must be 70,000 words in length, double-spaced and written on one side of the page only. The last date for submitting manuscripts is Oct. 1, 1958. Home address, college, class and age must be included with the manuscript.

The author of the winning novel will receive \$2500 in cash and royalties from the novel, which will be published. In addition, \$500 will be given to the literary magazine of the college attended by the winner.

Entries and questions about the contest should be addressed to: Contest Editor, Thomas Y. Crowell Company, 432 Fourth Ave., New York 16, N. Y.

Announcements

PLACEMENT MEETING

Dr. Donald S. Clark, Director of Placements, will hold a general discussion of placement problems and interview procedure on Monday, December 2. The meeting, which is open to students of all levels, will start at 7:15 p.m. in 206 Dabney.

CCF FILM

A special meeting of the Caltech Christian Fellowship will be held Friday, November 22, at 7:30 p.m. in 208 Dabney. The Moody Bible Institute film, "Facts of Faith," will be shown. All Caltech students are welcome and refreshments will be served.

HIGH VOLTS

"Lightning and Atmospheric Electricity" will be the subject of this week's Friday Evening Demonstration Lecture to be given at 7:30 p.m. in rm. 201, Bridge.

The lecturer will be Dr. Gilbert D. McCann, professor of electrical engineering. This lecture and demonstration, popularly known as "High-Volts," has become regularly accepted as a yearly event in the Friday evening series.

Orators Seek Western Title

Caltech's debate squad began its regular season two weekends ago by journeying to L. A. City College for the annual Practice Debate. The meet, which was the last intercollegiate debate before the coming Western Speech Association Tournament, November 25-27, attracted over 100 teams from Southern California, including three from Tech.

Jon Wright and Tom Gunkel represented the Beavers in the upper division. Two Frosh teams, Joel Yellin-Larry Crissman and Stan Klein-Pete Bickel, participated in the lower division.

Debate Coach Dwight Thomas announced that anyone interested in attending the W.S.A. tournament or any of the forensic meets next spring should meet with the squad Thursday nights in 309 Dabney.

Tech Meets Hens For Soccer Title

League Leaders Tied in First Game; UCLA Close After Recent Comeback

Caltech's soccer team will be out to gain the league championship when they meet the visiting Pomona squad Saturday at 10 a.m. Going into the game, the teams share the league lead with identical records.

The standings:

Caltech 3-1-1
Pomona 3-1-1

UCLA 3-2-0
UCR 0-5-0

In the first game of the season Caltech and Pomona dueled

to a 0-0 tie, which was then considered an upset by the Beavers. Since then, both teams have split with UCLA in low-scoring games and rolled over UCR. Such comparative scores indicate two closely matched teams and, with a league championship at stake, both teams will be giving their all.

Contest Essayists Seek Prize

Undergraduates in the Chemistry and Applied Chemistry options are eligible to compete for two prizes, of \$125 and \$75, being offered this year by Don Baxter, Inc. for original research in chemistry. Deadline for entering the contest is May 26, 1958.

To enter the competition, a student must submit an independently prepared research report describing a piece of research. This report is to describe the research and its significance in concise form. It is not necessary to have completed the research by the time of the contest. Any further information may be obtained from the Division of Chemistry.

Credit to Half-backs

Coach Anderson lays much of the credit to Tech's half-back line, lauding the efforts of Hugh Pritchard, Harry Bingham and Ed Tums. But soccer above all is a team sport, and credit, Anderson pointed out, must also go to our fast, hard-shooting line and defensive backs.

Many of the players have alternated at different positions to give us a well-balanced team, strong on the bench.

Starting lineup

Probable starting lineup will be Rick Dietz, Phil Thacher, Ed Tums, Louis Baez-Duarte and Larry Tenn from left to right in the front line; Harry Bingham, Hugh Pritchard and Brian Grey, half-backs, left to right; Wayne Nelson, left full-back, Brent Banta, right full-back and Glenn Converse in the goal. Other players who will most likely see plenty of action include Mac Poor, Keith Watson, Jim Weaver, Lewis Linson and a recent addition to the team, Ed Krebbiel. All have turned in outstanding games before.

SCOREBOARD

FOOTBALL

Tech 27, Oxy 14

WATER POLO

Pomona 7, Tech 4

Long Beach State 6, Tech 3

SOCCER

Tech 7, Riverside 0

Webb 4, Tech 0 (JV)

CROSS COUNTRY

Tech won by forfeit from Paz

Naz



Indian girl digs ditch at Pala reservation.

Caltech civil engineering department will direct the work at this week's camp.

Interested Techmen can get more information and sign up for the work camps at the YMCA office. There is a charge of \$3 to cover the cost of food for the three days. The third camp will be held November 29-31.

Senior Sloan Scholars Sightsee, Skip Studies

by Bill Bauer

When the second annual Sloan Testimonial Dinner is convened at New York's Waldorf-Astoria hotel this year, the assemblage of *personnes distingues* will again include Techmen. Freeloading on the expense-paid trip are senior Sloan Scholars Dick Fiddler, John Valbert, Gordon Brown, Ron Parkinson, and—as an added attraction—Dean Eaton. The dinner is given by the Alfred P. Sloan Foundation for Sloan, who, among other things, is listed as one of thirty-two living Americans with personal fortunes in excess of one hundred million dollars.

Of the 15 colleges included in the program, six will send senior Scholars (a total of about 35 in all) to the banquet, the purpose of which is to allow Sloan to meet the products of his investment.

The program will consist of an informal speech and discussion of student-submitted topics, both by Sloan. Although the program occupies only one night, November 30, most of the four plan to be gone at least one week. Commented Valbert: "I want to spend more than a couple of days there; it'll be my last chance for a long time. Besides, they don't flunk seniors, I hope."

Editorial

Our public servants

"Go home!"

"We are home!"

"Well, go to bed, you babies!"

With this cheery exchange of pleasantries the local minions of the law, the Pasadena Police, announced their helpful and orderly presence at last Friday's post-game celebration.

The men in blue made a perfect score for the side of inefficiency and bull-headedness that evening. The traffic escort promised for the cavalcade to the Rose Bowl showed up at the Tournament Park parking lot almost simultaneously with the game's opening kickoff.

As if to make up for their tardy cohort, a squad of police met the returning Techmen at the corner of California and Hill, fore-armed with barbed insults and military organization. The presence of these very police was no doubt a factor leading to the movement to light the bonfire in the street rather than in a less obnoxious place.

Once more tardy, the police eventually discovered the bonfire on San Pasqual, adding tremendous confusion to what had previously been a relatively quiet situation. One student, driving east on San Pasqual, was motioned with flashlight toward rather than around the fire, only to be stopped by a most uncouth outburst from the very constable who had done the directing; needless to say, the language of this representative of the fair city of Pasadena was not fit for the mixed company obviously present.

Once arrived on the scene, the officer in charge further confounded the situation by announcing imperiously that "all those remaining on the right side of the roadway after three minutes will be placed under arrest!" Following this strident announcement, worthy of a seven-year-old playing cops and robbers, the crowd moved onto the campus leaving in its wake several silent observers, including more than a few who were quite unsure as to which side of the road might be the "right side."

At this point the well-tempered gendarmes leaped to the defense of law and order, arresting one bewildered youth.

It was the consensus of students and faculty present at the rally that the Pasadena Police did their reputation a tremendous disservice by their ill-considered moves last Friday night. It was not necessary to use foul language and bull-headed tactics to preserve order. Further, the arrest of an undergraduate on the basis of a muddled, ill-worded police order did nothing to improve things.

The use of riot guns and arrests on an orderly crowd of spectators was a flagrant misuse of authority, worthy of a totalitarian government.

The Outside World

The News of the World in Brief

FOREIGN

Tunisia

Tunisia received arms shipments from the United States and Britain last week in spite of evidence that she might turn to Russia for supplies. France immediately accused the US and Britain of breaking NATO rules because she was worried about the transfer of the arms to Algerian rebels. However, French Foreign Minister Christian Pineau has asked Dulles to use our improved relations with Tunisia to provide a compromise atmosphere for French-Tunisian discussions on the transfer of administrative powers and economic supports. Successful discussions would conciliate France.

Egypt

Nasser suddenly quieted his radio and newspaper attack on Jordan's King Hussain and his pro-Western government. The campaign was almost a total failure. Both King Saud of Saudi Arabia and King Fairal of Iraq had asked Egypt to halt the attack. Hussain repudiated his defense agreement with Egypt, Syria, and Saudi Arabia, but did not break off diplomatic relations. Last April he had ousted a pro-Egyptian government and squelched a plot to overthrow him.

Disarmament

Western efforts to reach an agreement with Indian over an enlargement of the five nation

U.N. disarmament subcommittee collapsed. However, the General Assembly voted to keep the Disarmament Committee discussing Western proposals. Russia continued to boycott the committee in an attempt to have its membership changed to include all UN member nations.

Europe

A report of the Organization for European Economic Cooperation said that France must live within her means and Germany must decrease her large foreign trade and payment surplus in order to safeguard the common market scheme. Meanwhile, French industrial and farm associations have stated a dislike for England's free trade proposal until the European Economic Community is established.

DOMESTIC

Stevenson

Adlai Stevenson has agreed to be a consultant under Eisenhower's bipartisan program for the "summit" NATO conference this December. Stevenson stressed the need to restore members' confidence in NATO, to foster closer military and political ties, and to prevent further communist breakthroughs.

Budget

Eisenhower asked for cuts in entire categories in the budget to meet the rising cost of security. It was emphasized that security would not mean a larger budget since the defense budget has increased only a little.

Advisors
Can Prove
Invaluable

by Michael Godfrey
ASCIT Secretary

There is a useful purpose behind the Advisor System. Oddly enough, the purpose is to advise undergraduates concerning their preparation for their future professional careers. Specifically, your advisor can give you information in such fields as: Given my particular field of interest, of what value is a certain course? (If your advisor cannot think of any values in the course, perhaps you can be saved the trouble of having to sit through it.) Which electives will be most helpful to me? When should I take these electives? What courses are required for what graduate schools? What are the advantages of graduate school for a person in my field? How will I use what I am now learning after graduation? Which individual courses will be most important to my future career? I hate this course and this course how can I get more into a field that I like? What general sort of opportunities are there for a person of my interests?

Well qualified

I am sure that you can think of more useful and pertinent questions than those above. However, they are samples of the kind of question your advisor should expect. Your advisors are men who are experienced and well qualified in their fields. Their advice is valuable and well worth seeking. Many students who find themselves near the end of their senior year having taken courses of little value to them or having missed courses of considerable value and interest could have avoided this pitfall by a few serious discussions with their advisor. Problems of an academic and professional nature are common to all students. No one should hesitate to make an appointment with his advisor at any time during the year. Your advisor's signature is required on your preregistration card. However, if all you get from your advisor each term is a signature you are defeating the purpose of the advisor system, and, more important, you are missing a valuable personal opportunity.

Sincerely interested

It is clear that the apathy which surrounds the advisor system is not totally due to the attitude of the students. The interest shown by the individual advisor varies considerably. However, the majority of the advisors are sincerely interested in offering assistance to their advisees. If any student finds that in his individual case this is not true, each Division Chairman has been asked by the Student Faculty Relations Committee to make every effort to fulfill a request for a change of advisor.

No student should be denied the opportunity, through the advisor system, of conferring with a member of the faculty who is seriously interested in offering constructive advice and information. We hope that this letter to the students along with another to the advisors will help to give each student a fruitful contact with our faculty.

California Tech

Associated Collegiate Press honor rating: First Class

Editor—Bob Walsh

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Editorial

Damn, We're Neat

(Second of a series)

One of the most remarkable aspects of Caltech is the complete freedom of the students to conduct their own affairs.

Three weeks ago the registration committee of the Illinois Institute of Technology ruled, over student protest, that hereafter all schedules will be arranged by the registrar's office. Although this was done partly for reasons of efficiency, it seems that a greater reason was to prevent the students from solidifying their schedules to allow for longer free periods. The administration apparently considers it desirable to have more scattered schedules, and is ready to enforce this point of view, in spite of any possible harm to those students who have other commitments, such as jobs and extra-curricular activities.

Meanwhile, at the regular meeting of the Inter-College Council, student leaders from local small colleges discussed the usual problems of proctoring, censorship of student newspapers, establishment of "open house" hours (special periods when girls may enter men's rooms) and faculty interference in club activities.

These problems are so foreign to us that many of them are almost unimaginable. We soon come to take our freedom for granted and hardly realize what we have escaped.

Our most outstanding freedom is that represented by the Honor System. Through the modocus of the Honor System and the Board of Control, the two great responsibilities of academic honesty and protection of personal property become the concern of the students alone, and the faculty is saved from the distasteful role of overseers. Students are not only free from the watchful proctor, but also they have the opportunity to take examinations in an environment of their choosing.

Extra-curricular activities at Tech are also completely divorced from faculty control. Student government, student publications and all clubs conduct their affairs without fear that their decisions or actions will be nullified by the administration. Of course, there are still rules to be followed on campus, but they are vastly more lenient than those to be found elsewhere. Classroom attendance is required only for final exams. Women are permitted in the dormitories during all daylight hours, and during the evening for campus social events. The house Resident Associates act not as disciplinarians, but as advisors, and all matters of discipline in the houses are handled by student committees.

Unfortunately for some, freedom brings responsibility. As was frequently stated this year at Freshman Camp, "We are free to make our own mistakes." One of our more common mistakes is failure to consider the feelings of others. This is the sort of mistake that can easily lead to loss of some of our freedom, and this sort of mistake has been all too frequent recently.

Another common mistake has been the failure to associate more closely with the faculty. The excesses of administrative authority encountered in high school cause the undergraduate to instinctively shy from all contact with the faculty. Many of the advantages of our educational environment are lost this way. Indeed, East Campus and West Campus are two separate societies.

Caltech's problems are unique. We already have our independence. Our problem is to demonstrate that we are ready for independence by using it properly.

Secretary's Report

FALL SPORTS BANQUET

Russ Pitzer reported that the Fall Sports Banquet will be held at Brookside Country Club, on December 7. Norm Van Brocklin will speak.

HOMECOMING

This year's Homecoming was reviewed. Many random ideas were brought up by various Board members and visitors. The more important of these ideas are included in this week's minutes. (Minutes of the Board meetings are posted on the ASCIT and Student Houses bulletin boards.)

EDITORIAL CONFERENCE

ASCIT will pay half expenses for Mike Milder's planned trip to the Student Editorial Affairs Conference at the University of California at Berkeley. Milder is at present the News Editor of the California Tech.

SKI CLUB CABIN

Much to its chagrin, the Ski Club was recently informed that the lease on land which supports the Ski Club cabin will expire in December, 1960. The State will not renew the lease as it plans a new public recreation area on the land now leased by the Club. It is hoped that the cabin may be kept in good repair so that it may be used until the grasp of the State finally encompasses it.

Michael Godfrey
ASCIT Secretary

Opinion

The Bulpen

by Ford Holtzman

By Ford Holtzman

Whenever somebody suggests that we do something that does not fall under the "love God, love mother, love country, be normal at all costs" category, the objection is inevitably made that, by departing from tradition, we will somehow reduce the Institute to utter ruin. Last term when the Open Forum wanted to bring Harry Bridges here to speak, the hue and cry went up that kind old philanthropists wouldn't give Caltech any more money if we did. And when I suggested that we should not gung ho athletics so much, the argument was advanced that if we did not imitate our neighbors "neat guys" would not want to come here.

First of all, if we were to do something which might possibly cause the Institute some difficulty, you can be certain the faculty would act to put things to rights again. It may be true that we at Caltech enjoy more freedoms than students at most other schools. But it is equally true that the powers we have are insignificant, or if they are of some importance they are closely scrutinized by the deans and their cohorts. And it's a good thing, too. It would be presumptuous for us, with little or no experience, to try to run the show. Besides, if we did have any real powers, we would have to assume the responsibilities that necessarily go with them, and serious responsibility is something we can do well without



at the tender age of 18 or 20. After all, we came here to learn, not to do the things we have yet to learn how to do. And we will be best able to learn if we are not burdened with responsibility, if we feel free to experiment, if we are not afraid to hazard being somewhat irresponsible.

Suppose we did have the power to do something very hurtful to the Institute. We certainly cannot seriously mess up Caltech within five or ten years, and by that time we will all be out of this place. So why should we care? If the "neat guys" don't come here, they will go someplace else, and why should it make any difference to us when we have graduated? In other words, it will take a lot to kill this place. We would have to work hard to do it.

It is true that we should want good student-faculty relations. But the best student-faculty relations do not consist of one side giving in to the other. There is a natural difference between the viewpoint of the students and that of the faculty. The students are here to learn, to gain knowledge and experience. The deans want to see that the facilities are available, not only for us, but also for students in the future. This difference is real, and it should be recognized. Good student-faculty relations aren't really good unless they are slightly strained, where natural differences are accepted and compromised out in the open.

Patents

Trade Secrets Described, Analyzed by Expert

(Fourth of a series of articles by Roland Smoot, Caltech Associate Patent Counsel)

One of the methods by which major industrial concerns protect their commercially useful ideas is through the use of trade secrets.

A trade secret is knowledge either of techniques, compositions, structures, dimensions, or customers, used in the manufacture or distribution of products which the manufacturer does not publish or make known to the general public. Loosely speaking, a trade secret may be considered as the know-how developed by a corporation in the course of obtaining experience in the manufacture of his particular article.

Example: Coca-Cola

Probably the outstanding example of a trade secret in the United States is the mixture of ingredients used in the formulation of Coca-Cola. This is a closely kept secret and although other soft drink manufacturers

have attempted to reproduce the flavor and composition of Coca-Cola, to date no one has been successful. In this particular case, a trade secret might be considered preferable to a patent since obtaining a patent on Coca-Cola would necessitate a complete disclosure of all of the ingredients used.

Assuming that a patent could be obtained on such a formulation, after 17 years when the patent expired, each soda pop manufacturer would be free to reproduce Coca-Cola and sell it under another name.

In the case of Coca-Cola, it is the exception rather than the rule since, in general, any machine, chemical composition or process can be reproduced or independently discovered by other engineers or scientists skilled in the particular field.

But Patent Superior

It is thus the industrial know-how that represents the most valuable features of a trade secret. This is a competitive advantage outside of the field of patent protection which enables one manufacturer to produce a superior item at a lower cost but it is important to remember that the use of trade secrets cannot replace the use of the patent system, since, in general, these trade secrets are gained only from experience and without the protection of a patent giving the manufacturer the exclusive right to make, use and sell the device for the 17-year period. Substantially, any other manufacturer can, in time, obtain the same know-how thereby obviating the competitive advantage.

What does the existence of a trade secret mean to you as a working engineer?

Just Forget It

Assume that you were working for a company in a highly competitive industry. Within the company there will undoubtedly be certain trade secrets which, in general, will be techniques of manufacture, dimensional tolerances, methods of cleaning certain parts prior to welding or soldering, any number of a thousand and one things that may give your company a slight competitive advantage. During the course of your employment you will naturally learn of this

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Live Modern! Here's News...

U.S. Patent Awarded To The L&M Miracle Tip



... Only L&M has it!

"This is it! Pure white inside pure white outside for cleaner, better smoking!"

Get full exciting flavor plus the patented Miracle Tip

You get with each L&M cigarette the full exciting flavor of the Southland's finest tobaccos.

You get the patented Miracle Tip ... pure white inside, pure white outside as a filter should be for cleaner, better smoking. The patent on the Miracle Tip protects L&M's exclusive filtering process. L&M smokes cleaner, draws easier, tastes richer.

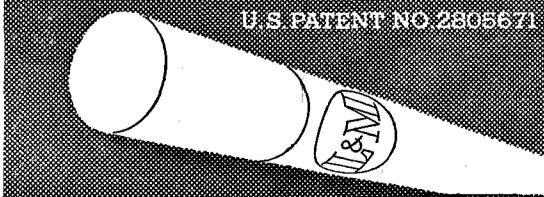
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U.S. PATENT NO. 2805671

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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



EPICURE

Jazz

The Jimmy Giuffre 3 Atlantic 1254; featuring: Jimmy Giuffre, clarinet, tenor sax, or baritone sax; Jim Hall, guitar, Ralph Pena, bass.

Giuffre has almost introduced another instrument to jazz, as anyone who has heard his clarinet will testify. The sound is totally removed from the standard Goodman-DeFrancoschool of clarinet playing, and would likely be disputed as a clarinet tone of any sort by classical musicians. To be frank, the departure in tone is partially by choice, and partially dictated by technical limitations. Giuffre doesn't really have full command of the horn, but what he does is so great, that I don't care if he can play chromatics at breakneck tempos. Moreover, his phrases are so direct and uncluttered, if technically easy, that I would think adornment, made possible by greater facility, would ruin their effect.

The tone of Giuffre's clarinet is almost startling at first hearing. It is reminiscent of a simple wooden pipe, somewhat like a very breathy recorder. I consider Giuffre's tone to be the closest thing to the Pipe of Pan.

Mood Clearly Portrayed

The trio itself and the tunes presented are also unusual but pleasing. Everything is of a folk song nature, truly blues in the most direct form. The melodies and the solo passages are wholesome and uncommonly down-to-earth. Two distinct types of blues are presented, sometimes within the same song, as contrasting themes. One is as happy as anything I've ever heard. The other is equally as soulful and despondent. The mood conceived of is clearly portrayed, and the listener is constantly aware of the prevailing emotion. The opener, *Gotta Dance*, is the ultimate in the approximation of a joyous shout.

Woven together

The trio distinguishes itself by its outstanding work as a unit. There are no stretches of solo with rhythm accompaniment that tend to break the mood. Everything is woven together, resulting in a three part approach. There is always something besides the solo, enhancing the continuity. If there is not a counterpoint or a riff, someone else is at least carrying on the melodic flow. The blending of the three horns, and their ways of complementing each other is a noteworthy attraction. This is something often attempted, but never so closely attained.

Essentially, this is a simple, rank, unashamedly emotional album, offering nothing pretentious, and giving more actual pleasure than most albums that do. This may be quiet jazz, but it's very definitely jazz.

Round About Midnight, The Miles Davis Quintet Columbia 949; featuring: Miles Davis, trumpet; John Coltrane, tenor sax; Red Garland, piano; Paul Chambers, bass; Philly Joe Jones, drums.

Although there is superlative backing from the marvelous cohesive rhythm section, this album is primarily a showcase for the sound of Miles Davis. It should serve as an introduction to Davis for the many jazz enthusiasts who have often wondered why people were raving about him. Coupled with the *Blue Haze* LP on Prestige, the album should definitely establish his stature as one of the most inventive living soloists.

Davis was in exquisite form, playing tastefully throughout, his flowing ideas highlighted by their continuity. The familiar, personalized Davis tone is much

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By Gene Cerdas

Your writer regrets the absence of a Barfly in last week's issue, but he was intimately connected in a marriage which at the time appeared to be more rewarding than the column. At any event, this week we deal with specific evaluation of several brands of Scotch. First



let us assume that the drinker has a strictly beer budget. For this imbibor we restrict ourselves to those Scotches costing less than \$7 a fifth. Most of the brands are actually found in this range, so a great latitude of choice is available.

Prominent products that fall into this price class include **Black and White, Haig and Haig, Five Star, Dewar's White Label, Ballantines, Old Smuggler, White Horse, Whyte and McKay, Teachers Highland Cream, Martins VVQ, Vat 69, Johnny Walker Red Label, Ushers, Grant's, Laphroaig, Cuttysark and House of Lord's**. If the prospective drinker prefers a drink of light body and delicate flavor, no better choice can be made than **Cuttysark**. If a fuller and richer drink is desired, then **Black and White** or **Johnny Walker** must be the

pick. Drinkers in this class to steer clear of include **Martin's** (too smooth), **Laphroaig** (too rocky), **White Horse** and **Usher's**. For an all around Scotch, **Whyte and McKay** makes an excellent drink but it is unfortunately almost impossible to obtain it on the West coast. The rest of the Scotches are quite acceptable but it is felt that the above mentioned brands are the finest quality available at this price.

Up a tad

Let us skip up a tad and consider those Scotches that sell for between seven and ten dollars. There is no point in purchasing Scotch that costs this much unless it is consumed straight or on-the-rocks. A process that requires 8 years of aging can be completely obliterated in five seconds with just a bottle of soda. Most of the drinks in this range are the result of more costly blends and longer periods of aging.

The list here is more restricted but does include **Haig and Haig Pinch, Black and White Deluxe, Johnny Walker, Black Label, Kings Ransome, Chivas Regal, Ushers** (20 years old), **Martin's** (8 years old), **Grant's** (12 years old), **Crabbie's** and **Blended Moorlan's**. The best Scotch of full body and flavor here is probably **Chivas Regal**, with **Black Label** not far behind. Those who

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Exclusive Epicure Review

The Ten Commandments

production by Cecil B. DeMille
color by Technicolor
screenplay by God

Not two—not five—but Ten! count them, Ten Big Commandments! All assembled for you in the biggest show of all time! Yes it's Big! Big! Big! Nearly four hours long—25 minutes a commandment. Based on the biggest best-seller of all time! And featuring a cast of hundreds of thousands—makes the original story look puny!

See Charleton Heston, as Moses, fight, slash, and love his way to the top. See Debra Paget as Lilia, temptress of the Nile, the "other woman" in Moses' life. See Yul Brynner with a pony-tail, as Rameses, totalitarian pharaoh who got what he wanted, and wanted Lilia!

You'll marvel at the all-electric burning bush! You'll rejoice with Moses as the Egyptians die like flies before the terrible ten plagues! You'll cringe in terror from the bony-green death mist—nothing like it since "It Came From Outer Space." And you'll never, never forget that big friendly voice of God in stereophonic sound! It's better than listening to Ike!

Don't miss this simple story of faith. And whatever you do, don't tell the ending!

EFRON

Theatre

Rodan — Since contemporary producers have a great wealth of good science fiction from which they may obtain excellent screen plays, one might suppose that the movie-goer would find a wide selection of very good science fiction films. This picture is another tragic example of the fallacy of such a supposition.

Although the film happened to be made in Japan, it combines many of Hollywood's worst characteristics. Most irritating perhaps, is the insipid dialogue made to appear still worse by poor dubbing in. The producers apparently felt that the plot has been used successfully so many times in the recent past that it

needed no revision. Under these circumstances the acting doesn't make any difference. Pictures like this make one appreciate the very rare good science fiction film.

Hell in Korea — This English film of the action of a single, three day patrol has some truly believable combat scenes. Unfortunately it also has several others which are closely related to the "You can't possibly lose" training films. Neither the plot nor the acting is particularly good or bad. Consequently, this picture is for only those with much time to kill.

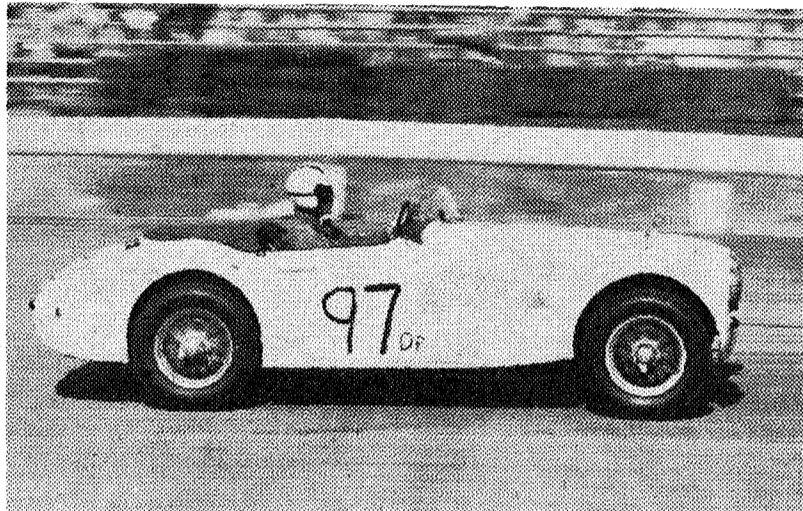
CHERNOW

Pit and Paddock

Our car of the week is one that you should all be familiar with, the Austin-Healy. This car is noted for its Italian type styling and its cornering, which is exceptionally flat, even for a sports car. The Austin-Healy 100-6, the one that is currently in production, differs from the earlier models only in its engine, which is now a six, and its newly added "occasional" rear seat. This extra seat, if it can be called a seat, is extremely occasional, and very uncomfortable.

The car's high notes are its styling, reliability, and good brakes. The Healy offers more comfort than most sports cars, and has exceptionally good weather equipment. Its performance is a bit poor for a 2.6 liter car, due partly to its considerable weight. It has a top speed of 105 mph, accelerates to 60 in 12.2 seconds, and does the standing start quarter mile in 18.2 seconds. The over all rating is good, and we recommend it to any Techman with a spare \$3200.

The races held last Sunday, which we encouraged you to attend, were tremendous. The Riverside course is developing into a very good track, and has the power to draw the best drivers in the nation. The over 1600cc modified event turned into a real contest between the big boys. Maston Gregory took an early lead in his 4.7 Mazer, followed closely by Walt Hagen in a D type Jaguar, Carroll Shelby in a 4.5 Mazer, and Dan Gurney in a 4.9 Ferrari. Hagen passed Gregory, Shelby passed them both, and he stayed ahead until he



An Austin Healy 100-6 at Riverside track last Sunday.

spun on the 5th lap and fell back to 7th place. The race then turned into a question of pure speed on the long back straight. The 4.9 Ferrari was clocked at 163.109 mph when it took the lead from Hagen. Shelby resumed the lead shortly afterwards, and went on to a well deserved win.

The under 1600cc production race had a noticeably small field.

There was a real duel between two Alfas for the first spot in class G, but this provided all the excitement.

Bill Love did a tremendous job in his class F AC Bristol in the over 1600cc production race. He trailed the lead Corvettes all through the race. This is a monumental feat when the engine

(Continued on page 6)

Classical Music

Heard From the Wings

By Joel Yellin

Stokowski

Eugene List, fine young pianist and a family friend, is finally recording for Mercury. With Howard Hanson and the Eastman-Rochester Symphony, he has cut Gershwin's *Concerto in F*. A very fine performance; not the best, but indicative of the kind of work the younger American pianists are capable of doing. It is too bad that disc cutters seem to neglect this very talented group.

John Browning, a wonderful technician and already almost a master at the keyboard, will appear at Pomona College early next year.

Still in his very early twenties, Mr. Browning's national radio performance of the Rachmaninoff *Rhapsody* with the New York Philharmonic is still remembered by this writer as a wonderful achievement. Many refuse to program this difficult work, let alone think of playing it at nineteen!

Heifitz

Jascha Heifitz has given us another wonderful performance on Victor, accompanied by Brooks Smith. The Bloch Violin sonata, *Poeme Mystique*, is given the usual superlative treatment that Mr. Heifitz offers. On the other side is the second Grieg Sonata for Violin and Piano, Opus 13, No. 2 in G. All in all, Mr. Smith does a fine job. We regret the retirement of Emmanuel Bay after accompanying Heifitz for so many years. The piano is heavy in places, but the master of the bow makes up for it all with another fine performance.

Stokowski has finally managed to record an acceptable version of Holst's *The Planets* on Capitol. Surprisingly, he does it with the L. A. Philharmonic, a group which in the past has always managed to seem unimpressive. Van Beinum has been a steadying influence in a fresh and new direction, and we can expect more music of this kind during the coming season. Not only is the Stokowski recording acceptable, it is the best version so far of Holst's erratic score.

Something Unusual

In common with the plan of presenting something unusual each week, I recommend an acquaintance with Lieder, the repertoire of the concert singer. Dietrich Fisher-Dieskau, a German baritone with the most beautiful voice of any singer in the world—at least among concert baritones—has recently recorded with Gerald Moore, a collection of the songs of Hugo Wolf. Wolf took the poetry of Goethe and others, and set it to flowing melody.

This music, though very lovely, is paid scant attention by the average concert-goer. In deference to Mr. Fisher-Dieskau, this is not his best work. Anakreon's *Grab* is too heavily voiced, and the Eichendorff *Verschweigene Liebe* is emphasized strangely, while Mr. Moore has a habit of hitting too hard in several spots. All in all, however, it gives one a very good idea of what lieder should sound like, as sung by their foremost exponent.

Tech booters smash UCR; win gains tie for league lead

Caltech's varsity soccer team routed UCR by a score of 7-0 here last Saturday. The Tech booters kept the ball almost exclusively in their opponent's half of the field as halfback Ed Tums scored three goals to lead the team. Their season's record in league play is now 3-1-1, with one game left to play against Pomona, winning which means a tie for the championship.

Flem swims to trophy win

A swimming meet, held at the Alumni pool last Saturday, ushered in the first discobolus meet of the year. Fleming, by winning three of the four events, successfully carried through their challenge to Ricketts and won 20-16.

Ken Muraoka took two events for the Phlegms; the 50 free in 27.2s and the 50 butterfly in 34.7s. Gordon Hughes rounded out the wins for the victors by winning the 100 free in 1:11.5. Dave Nissen uncorked what may be a truly revolutionary backstroke style as he took the 50 back for Ricketts by barely a stroke.

There was a small mix-up as Throop, who had first challenge, failed to list the right sports on the challenge, and Fleming took advantage of the technicality.

Tums scored the first goal with fourteen minutes gone in the game. After that, the goals came hard and fast. Before the first half was over, Mac Poor and Brian Grey had each scored one goal.

Eight minutes after the second half had started, Larry Tenn scored on a rebound off a UCR fullback. Then Ed Tums headed in his second goal, and soon thereafter kicked his third past the opposing goalie. Mac Poor then put on the finishing touch when he headed in his second goal for the final 7-0 score.

In their first meeting of the season three weeks ago, Tech fought out a close 2-0 victory over UCR, indicating the improvement of the team.

The JV team lost to Webb 4-1, also on the home field. While improving and developing varsity material for next year, it sports a dismal 0-4 records.

Opinion AS I SEE IT

by Dick Van Kirk

Saturday's thoughts on Friday's game: One of the biggest factors in last week's win was the general alertness of the Caltech team. Timely recoveries of fumbles and intercepted passes stopped Occidental threats and set up Beaver scores. Combined with the hard tackling of the team and some powerful running by those "little" backs, Don Stocking, Hal Forson and Art Takido, this alertness proved to be the difference between the two squads. . . . How about the game turned in by Stocking? It's hard to believe there's ever been a better all-around back at Caltech. The guy tackles like a pro and carries the ball like a 180-pounder. . . . Takido pulled the brainiest play of the game when he fumbled into the end zone in the third quarter, allowing Stocking to fall on it for Tech's third score. . . . In the tension-filled final minutes of the game, Lee Hood became a momentary goat as he fell down while backpedaling on pass defense, allowing Mike Holmes to score Oxy's second TD. But the game was as good as in the bag, and what happened to Lee has happened to the best of defen-

LBCC, Pomona sink Tech waterpoloists

Webmen will face Oxy tomorrow with second place in conference at stake

Caltech's varsity waterpolo team, after wallowing through the first of the season in a mire of mediocre play due largely to the lack of practice during the flu epidemic, finally showed signs of coming to life last week. Last Tuesday, minus the services of aces Clarke Rees and Bob Smoak, the team had its win streak halted at one game by Long Beach City College, state junior college champions. Although the Beaver tankmen were outclassed tremendously as expected, sparks of poloistic competence appeared. Norm Velinty scored the only Caltech goal on a pass from Bob Blandford with two men on him, as the team lost 14-1.

His lapse was forgotten in the postgame exuberance of victory. . . . The publicized Occidental backfield speed was nowhere in evidence Friday, except for one burst by halfback Walt Williamson. Tech's defense completely bottled all other Tiger running attempts. . . . From a player's point of view, one of the most wonderful things about the game was the confidence of the Caltech players in their ability to win the game, a confidence which was personally doubled when Caltech stopped Occidental cold in the Tigers' first offensive attempts. From there on in it was only a question of time in the minds of most players. . . . It's difficult to remain impersonal in praise of the pass-catching abilities of Fred Newman and Gene Stanley, two ends who would make any halfway decent passer look great. Newman has already achieved all-conference rating in basketball and baseball, and don't be surprised if he turns the trick in football. Stanley takes more ribbing than any other player on the squad, most of it directed at the distribution of his weight, but he plays football as though he were directing any hard feeling arising from this ribbing toward the opposition. . . . I've been straining for a dramatic ending, but I'm too beat to say much more than: See you Saturday at the La Verne game.

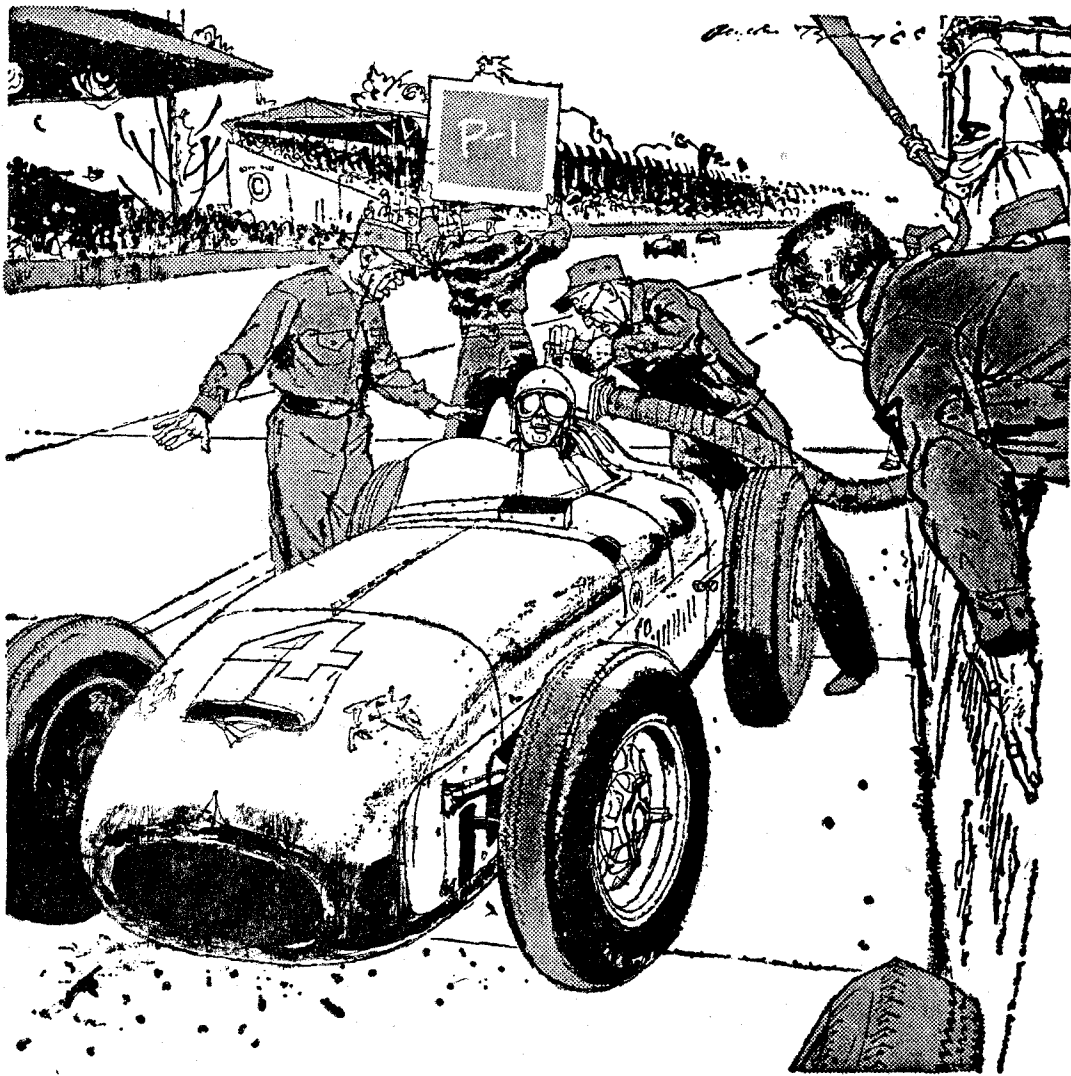
The Pomona game on Friday was the real reason for believing in the possible resurrection of a strong polo squad at Tech. The Webmen looked sharp and were leading all the way up to the end of the third quarter when they finally bogged down as Clark Rees, sole Tech scorer, was smashed spectacularly. There was indiscriminate, repeated and uncalled fouling all through the last quarter, due to hot tempers, rough play on both sides, and "liberal" refereeing. The final score was 7-4, Pomona's favor.

On the basis of the sharp play exhibited by the Emeryfish last week, the Beavers stand a real good chance to beat Oxy and gain a tie with them for second in the league.

IHC Debates Interhouse Rule Changes

While interhouse swimming is yet to happen, the IHC is now debating whether or not to end all distinction between major and minor sports, i.e., make first place in all sports worth 25 points. Last week they defeated a motion to make the rule retroactive. The next meeting will decide if tennis and volleyball are worth 15 points, as they are now, or 25 points, as some houses hope.

Ricketts	32
Blacker	30
Throop	28
Dabney	16
Fleming	14



LIBERAL ARTS OR SCIENCE

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Campus Brewins

Party Popular

Various and assorted Phlems trundled out to Hollywood to a buffet shower for a former member of the Women Are Evil Club and his newly acquired wife. (Two cows, a horse and twenty-four dollars worth of beads.) The roly poly tea pourer poured tea to his heart's content. One Charlie Brown Payne, who felt a little unsteady about walking, asked Mr. Montgomery to carry his cup back to the tea table. Most of Monty's reply was lost but part of it went, "Puff-I-puff-can't. I've been worn out by an old lady bopping."

D. Gilson seemed to be having a great time dancing with the bride's mother. Said he, in the coolest of terms, "Like man she sure can dance." The last scene before the curtain fell was rather mixed. Fineman explaining the difference between a cycrotron and a scycrotron; people 6 to 60 dancing in the living room; a few having fun and droll games in the plush red carpeted bathroom; the newly married man looked around at all the good times that people were having and confided in Beak that he started much earlier than anyone and was sure he had the best time of all.

Fire Fighter

M. Janswine heard about a fire on the street after the game Friday. Mike has always been a fire fighter at heart and he thought the best thing to do was to take some fire water and put it out. Alas, when he got there the cops didn't appreciate his helpful attempts and instead told him to disperse. Mike just didn't understand what the cop said and when he asked in a loud tone of voice, "What's that you say makes you deaf?", they hauled him away.

BARFLY

(Continued from page 4)

like a lighter Scotch will prefer Pinch or King's Ransom.

Blended Moorlan's has fine flavor qualities but is all of 100 proof which is fine for the Wyoming roughneck but may do disturbing things to the delicate linings of milady's throat. All of the above Scotches are fine products whose quality reflects their high price.

Plutocratic realm

At this point we move into the realm of the plutocratic, capitalistic money hoarder. The prices of the following brands range from \$10 to a nifty little job that markets for \$32.25. This is a considerable range, but above \$10 who cares? All of these brands are among the finest Scotch available and are all the result of extensive aging. The list includes: **Ballantines** (17 and 30 years old), **Grant's** (20 years old), **Glenlivet** (10 years) and a few exotic brands not obtainable in this part of the country.

Glenlivet is the only unblended Scotch on the market to the best knowledge of this writer and will not appeal to the drinker accustomed to the conventional blended Scotches. It is quite highly spiced, being distilled in the Scottish Highlands. Just for the record, the 30-year old **Ballantines** is the \$32.25 a fifth dandy.

The above list is not intended to be all-inclusive but rather is offered as a summary of the most popular Scotches consumed in this part of the country. The writer regrets any omissions or errors of judgment. It must be realized that Scotch does not run the complete gamut of qualities that Bourbon does. Almost all of it is quite drinkable in contrast to several Bourbons which come to mind without the slightest provocation. Those who do not appreciate the fine qualities of Scotch we leave to their own inept fumbblings.

Young Innocents Abroad

Ford Holtzberg (of newspaper column fame), Juan Pablo Mining, Bruce Kong, and Wilt De-Ball went south of the border to learn about basket weaving and all. The Beak's TJ scout reports that Paul and friends, having heard stories about Mexican wimmin, and stories about Mexican low budget likker, and other tales, went about town seeking information concerning same.

ech!!

Krudebin and Egg'ed thought they had it knocked at Friday's post-game blast. First's wench said, astoundingly, "Let's get Bombed at your digs!" Egg'ed's wench thought less of said idea, whilst entering P. Room. Second wench re-emerged shortly later with inquiry (and relieved look): "How, can you spare a nickel?" Party plans stopped there and poor How can't figure.

Odds and Ends

Blackhouse's ex-Pontific brezed through shortly past clad in shining armor of U.S. Marine Corp. Only and probably last message from high priest of diverse free love involved plans for ring. Sic transit gloria munda!

Overheard: "Why can't you see breezed through shortly past clad cott."

Likewise: "But what is schnaps?"

JAZZ

(Continued from page 4)

in evidence, breathy and soft in its wispy melodic lines. Extensive use is made of the muted horn, blown softly, and very close to the mike.

Sheer beauty

There is a sparse scattering of jagged, ill-defined phrases in contrast to the simplicity and controlled emotion of his usual style. Succeeding ideas build upon each other, often culminating in a phrase of pure emotional joy.

The sheer beauty of the ninth and tenth bars of **Round Midnight** took my breath away. The notes seemed perfectly logical with respect to the mood set, but the harmonic substitutions were unrelated to the chardal structure. The simple melodic statements on **All of You** and **Bye Bye Blackbird** swing like mad! It is a subtle pulse, not a frenzy of excitement, but the effect of the tense, thoughtful, ever-driving horn was sufficient to convert me to a worshipping disciple of Davis.

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PIT AND PADDOCK

(Continued from page 4)

sizes are compared. We had a terrific time, even if we did have to spend the night under the stars, and hope to see many more races at this course.

Movie not Authentic

In respect to the movie **Devil's Hairpin**, which was reviewed in the **Tech** last week, we would like to comment that this movie does not typify sports car racing. A man doesn't automatically turn into drunken bum when he is beaten in a race. Road racing, as practiced in the United States is an amateur sport, and is engaged in by the drivers as such, not as a personal feud.

It is not a rule of racing that a car goes off the road and bursts into flame whenever the outside of a corner is taken. An XK 120, Jaguar cannot come close to a D type, and it is not customary to count, "one . . . two, mash . . . three . . . four, mash" when down shifting for a corner. The movie as a whole gave a very poor picture of sports car racing and of the kind of people who race.

CRISSMAN, EGLINTON and NORTON

BULLETIN—Miss Suzan Jackson, well known for her work in dramatic interpretation, journalism, and her numerous stormy romances, will visit Caltech next week under the auspices of The California Tech. Miss Jackson will dine Thursday at the Pasadena residence of Messrs. Douglas L. Carmichael, Itiel Haissman, and David Reed Gilson.

Miss Jackson is currently with the Dramatics Division of the University of Arizona and is co-owner and business manager of The Athlete. Included in her entourage are Miss Betsy Frederick, of Mills College; Miss Julie

PATENTS

(Continued from page 3)

industrial know-how. What happens if you now go to another company in the same field?

If the industrial know-how truly is a trade secret, a court of law may, under proper circumstances, prevent you from revealing to your former employer's competitor the trade secrets you learned there.

The example most often used in this particular field relates to the laundry industry. A driver for a laundry will have a certain route and he will learn the name and addresses of each of the persons using his employer's services on that route. This list of customers is a trade secret. A court of law will stop him from revealing this list of customers to a competitive organization.

Secrets Impede Progress

There is another side to the trade secret problem that makes a decision in an individual case very complicated.

Under our competitive system, an employee should be able to change jobs when he wants. In changing jobs there is no law which requires him to forget everything that he has learned in his previous employment. The courts say that you cannot place a mortgage on a man's mind.

Kranhold, Arizona society leader; Steve Paxton, also of the Arizona Dramatics School; and Stan Goff, publisher of The Athlete; and Miss Eileen Walsh, zoological chemist and sister of world-famous editor.

This is a further disadvantage to the trade secret system since it is difficult to draw a distinction between a true trade secret and mere engineering experience.

As we have indicated before, there is a further disadvantage to the trade secret system. In contrast to the patent system, the maintenance of trade secrets stifles and impedes the progress of the arts and sciences. If we were dependent on trade secrets to protect industrial property, we would rapidly return to the guild system of the middle ages where knowledge was kept in tightly controlled cliques and handed down from generation to generation. Ideas breed ideas and without the free promulgation of ideas the incentive to think originally is destroyed. You have heard, I am sure, this same criticism directed to the security system.

Trade secrets have a useful place in a competitive economy but their utility must be limited by the right of individual employees to use their experience to financial advantage and by the necessity of the sharing of ideas to promote the development of new ideas.

The subject of trade secrets, as far as an engineer is concerned, is closely related to the employee contracts that an engineer normally signs when he goes to work for a major corporation.

We shall discuss the subject of employee contracts and your rights and obligations thereunder next time.

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ARROW

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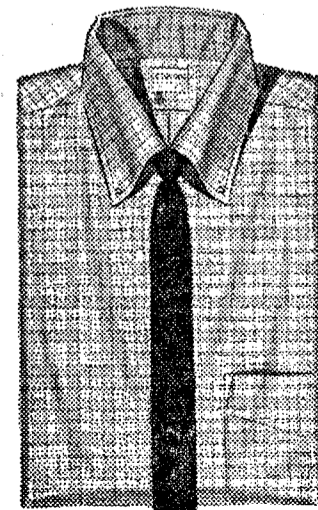
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Homecoming Section

The California Tech

California Institute of Technology

Volume LIX

Pasadena, California, Thursday, November 21, 1957

Number 8



VICTORY!

Beavers Triumph Over Oxy

Stocking, Van Kirk Star As Tigers Fall, 27-14

by Dave Singmaster

In a game that will long be remembered, the varsity football team romped over Occidental 27-14, as Don Stocking scored 21 points.

Quarterback Dick Van Kirk played his usual brilliant game, making good use of the option, gaining more than 60 yards on the ground and completing 4 of 8 passes for a total of 68 yards in the air, to maintain his league ground gaining title. He scored once and intercepted one pass. Don Stocking played a superb game, gaining ground consistently and plunging over the goal twice, recovering a fumble in the end zone and kicking three of four extra points for 21 points. Art Takido's good offense and brilliant defense and Hal Forsen's capable running also helped pile up first downs and yardage for Tech.

The first quarter had nearly passed away when Tech took over possession on a fumble on the Oxy 41 with 6:00 to go after Fred Newman's 40 yard kick had driven Oxy back. Stocking started off with a 12 yard run for Tech's second first down and deepest penetration. Forsen took the ball for 3. On the next play, a fumble on a pitchout was recovered for a six yard gain by

end Gene Stanley. Forsen gained about 1/2 yard for the first, Takido gained 8 and Van Kirk took the option for 3 and a first down on the Oxy 8. Stocking gained 3. Then, on the next play, Oxy bumbled offside to give Tech the ball on the one with three downs to make it. Van Kirk plunged for 4/5 of a yard and again for the rest of the yard with 0:50 to go in the quarter. Stocking's conversion was good, but Oxy committed a personal foul on the play to make the kickoff from the Oxy 45 instead of our 40.

The second quarter started with Oxy in possession briefly. Tech took over on their 33 and struck back into Oxy territory with a 26 yard pass play from Van Kirk to Newman. Van Kirk kicked on fourth down and put it out of bounds on the 8. Tunney kicked back and the ball was downed by Oxy on their 38. Van Kirk faded back and then ran for 10 for a first. Takido gained 3, Oxy fell offside again, Forsen made 8 on a slant for a first down on the 12. Forsen made 1, then Stocking broke loose for 11 and a TD. Stocking's conversion was again good to make the score 14-0 with 6:04 in the half.

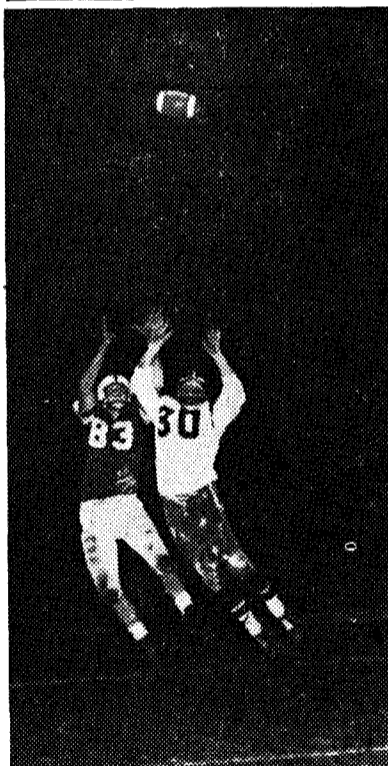
The second half started with a 16-yd. run back by Takido to the 42. Van Kirk kicked on fourth down, out of bounds on the 23. Oxy struggled up to the 30 and kicked a high kick. Safety Hal Forsen for a fair catch with three Oxy men around him and then dropped it, Oxy recovering on the 44. Williamson lost a yard then broke loose for 45 for a TD, galloping through the amazed Tech secondary and safety. The conversion was good, but the scoring posed no threat.

On kick off, Van Kirk ran back 22 to the 42, then on first play passed to Newman for 25 to the Oxy 33. Takido made 6, Stocking lost one, Van Kirk faded and ran for 7 and a first on the 21. Takido made 3, Forsen made 4, Takido again for 4 to the 9 for a first down again. The drive halted on a fumble which Oxy got on the 11. Williamson made 8, then somebody made 1, then



ASCIT Photos

Halfback Don Stocking backs into the end zone to put Tech ahead 27-7 in the fourth quarter.



End Fred Newman and an Oxy defender soar gracefully through the air.



Caltech fans cheer a long gain.



Quarterback Dick Van Kirk skirts end for ten yards after being trapped behind the line.

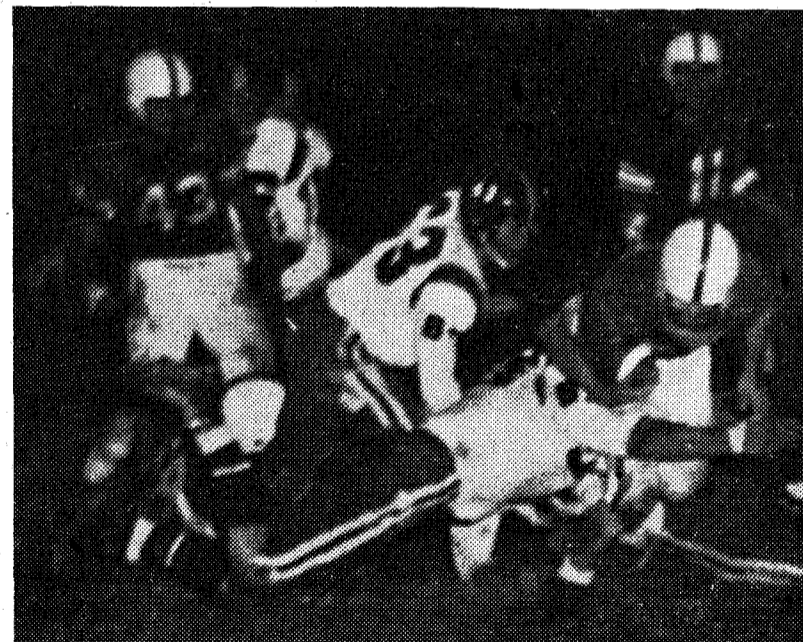


Assistant coach Shelby Calhoun rides from the field on the shoulders of jubilant gridders.

Oxy again fumbled on the 20.

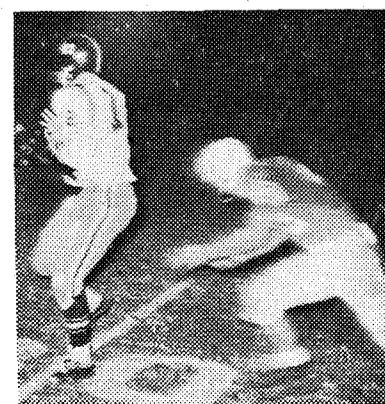
Takido lost 1, Van Kirk passed—incomplete in the end zone—then passed again—this time complete to Newman on the 8. Van Kirk faded and ran, losing 4. Forsen gained 5 and Takido 3 for fourth and 4 on the 4. Takido took the ball, aiming around end and progressed to the 2, when several men caught him by the legs. Seeing himself stopped, and also seeing several red jerseys in front of him, he "pitched out." the ball rolling forward. Don Stocking was there and fell on the ball in the end zone for our third TD. His conversion was again good with 1:40 to go.

Oxy received, played all four downs desperately, and lost possession on their 45. Tech ground out yardage to the 9 with third and 4. Stocking gained 3 yards and 30 inches, then Takido plunged into the suddenly rocky Oxy line and gained 4 inches or so, making it first and ten for Oxy. Oxy came out to the 19 and kicked, the ball rolling dead on the 47. Newman kicked from the 45 and the Oxy safety dropped the ball and then fell on it on the 15. Third down, Oxy passed to John Haynes, left end, who dove for and trapped the ball on the 28. The official ruled the pass



Stocking plunges for 12 yards as Tech marches to the first touchdown.

incomplete and John got a personal foul called for some remarks he made to the official. Result: Tech's ball on the 5 yard line. Stocking plunged over from the 1 on third down, despite Oxy's valiant defense. Stocking's conversion went wide with 4:05 to go, but the game was effectively over.



And then . . .

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Mary Anne Reigns Over Homecoming

By Mike Milder

The Alumni and their wives who made the long journey back to Tech for the annual Homecoming last Friday were treated by Techmen to an extra-special evening. The undergrads crowned a lovely Queen for them, the Band marched and played for them, ASCIT held a dance for them, and the football team won a game for them.

And hardly an Old Grad in the Rose Bowl stands could remember when Caltech's football team had beaten a conference team, much less Occidental's.

As if their joy were not already complete, the Alumni discovered when they returned to the campus that the undergrads had presented them with an impromptu, quiet little bonfire scene, complete with Keystone Cops.

The animated tone of the evening was set early as Techmen and their dates stamped around in an effort to keep warm during the pre-game dinner and rally.

Word had evidently spread of the outcome Coach LaBrucherie had planned for the game, since Tech's side of the field boasted twice as many rooters as Oxy's. Aid the Tech rooters managed to



ASCIT Photos

Lovely Queen Mary Anne Seltzer, flanked by Princesses Linda Duval and Diana Jackman, parades before the Caltech stands in a golden Edsel.

keep themselves warm with an unusual display of spirit, as they watched their team manhandle the rivals.

For the halftime entertainment of the sport fans, Al Forsythe led Caltech's new Marching Band in an impressive display of numbers and precision.

A few lucky spectators in the front row even got to see this year's charming Homecoming Queen, Mary Anne Seltzer, receive the crown from last year's

Queen, Barbara Coleman, in a ceremony that also presented Mary Anne's two Princesses, Linda Duval and Diana Jackman.

After the game Techman and their dates, in a rare post-game humor, made their way back to Tech for the ASCIT after-game dance. Alumni fought undergrads for room on the dance floors in Dabney and Ricketts but nobody cared. Tech had beaten Oxy.



1956 Homecoming Queen Barbara Coleman crowns her successor, Mary Anne Seltzer, before 2000 enthusiastic onlookers.



Ever meet a fanatic?

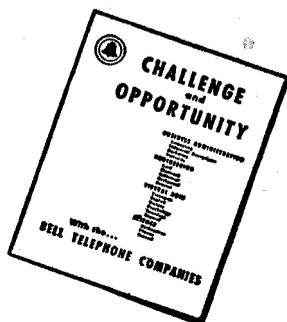
He's got just one thing uppermost in his mind. If he's looking for a job he's thinking *only* of pay or *only* of security. Reasonable men, however, weigh these and many other factors when they're evaluating career possibilities. Such factors as opportunity, challenging work, training, professional associates—things 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.

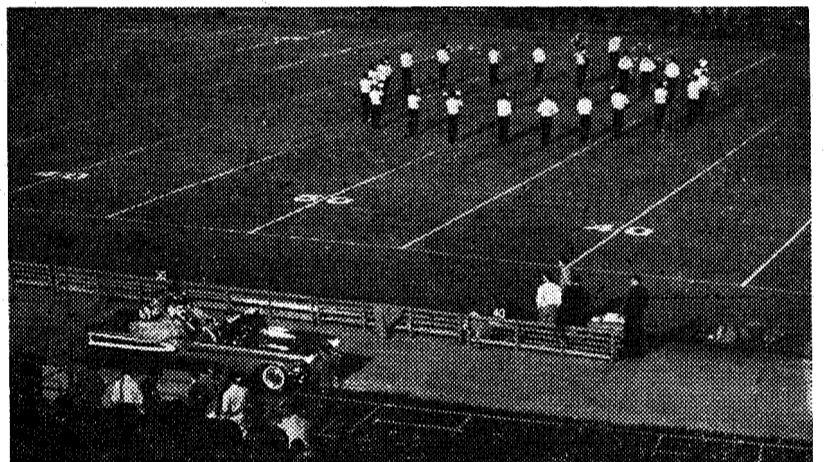
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ABOVE—The Caltech Marching Band salutes the opponents with "Occidental Fair" as the gold Edsel brings the Homecoming Court to the presentation platform.

BELOW—Whirling students and alumni fill the three dance floors at the Homecoming Dance.



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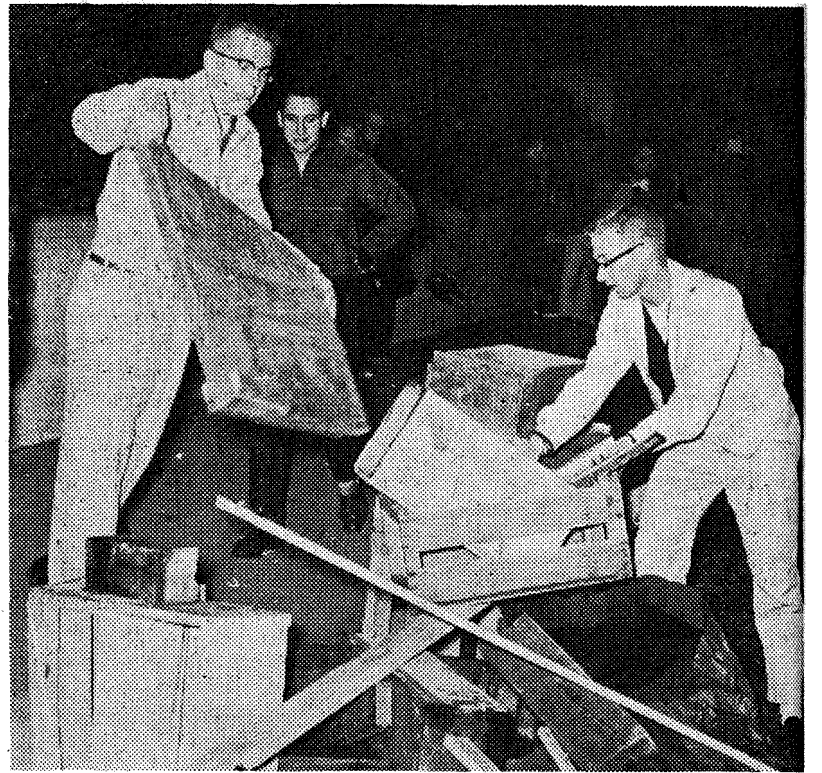
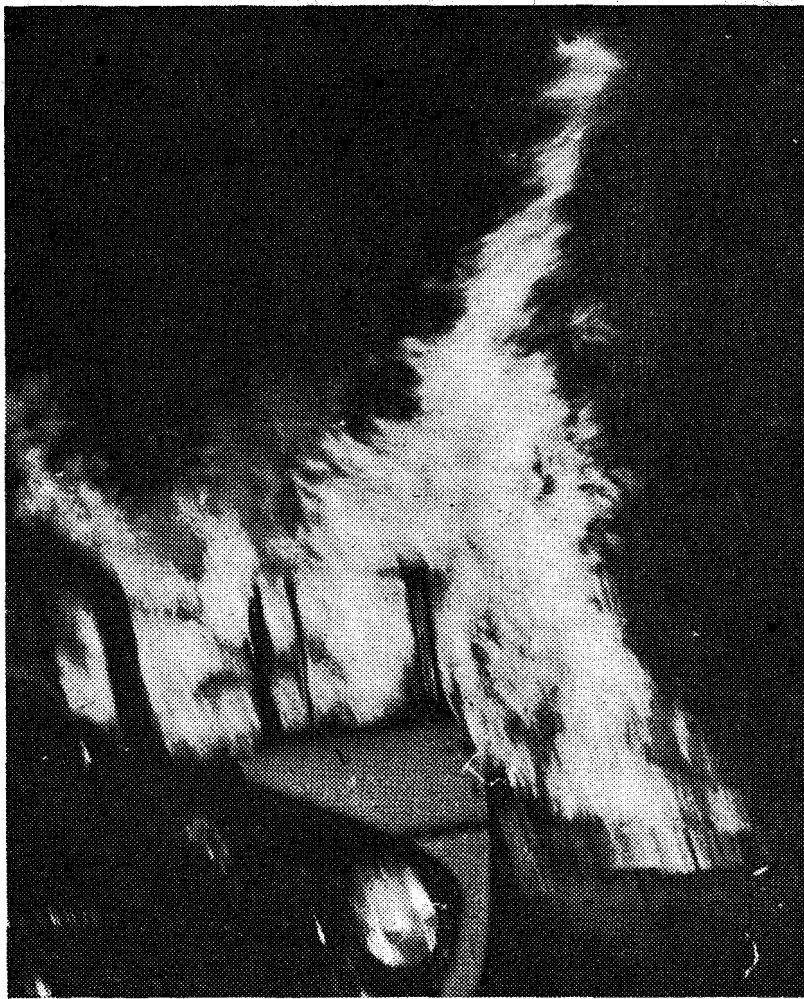
Sidelights added to the color of the weekend, as Techmen found various ways to amuse themselves.

Six Occidental visitors found that prowling around the Caltech campus was an unsafe occupation, and were soon paying visits to the student houses. One stalwart broke the rules of friendly scuffling, and was penalized one pound of hair.

After the game a bonfire rally was started off of California Street, but the local protectors of law and order decided to prevent the celebration. A few minutes later the same wood was found burning right in the middle of San Pasqual.

Firemen eventually arrived to extinguish the flames, and the police declared "an unlawful assembly" and used riot guns to disperse the spectators.

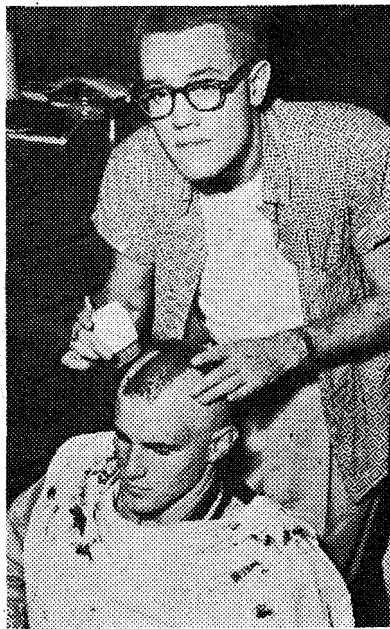
After a third blaze, back on California Street, was also prevented, the celebration broke up into smaller parties that lasted far, far into the night.



Courtesy ASCIT Photo Division

ABOVE—Several enthusiastic Tech rooters find themselves cleaning up the Interhouse Dance immediately after the game.

LEFT—Whoops! Spontaneous combustion.



One of the six Occidental men who were caught during inter-campus raiding is punished for unsportsmanlike conduct. The only trace of their visit was a small "O" painted on the street side of a San Pasqual palm tree.

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WHAT IS A TEN-SECOND CRYING JAG?

RAY ALLEN COLORADO STATE U. *Brief Grief*

WHAT IS CIGARETTE MONEY?
(SEE PARAGRAPH BELOW)

WHAT IS A REPTILE WITH SUPERNATURAL POWERS?

J. E. BRASH WILLIAMS *Lizard Wizard*

WHAT IS A GLASS GUN?

JERAL COOPER FORT HAYS KANSAS STATE *Crystal Pistol*

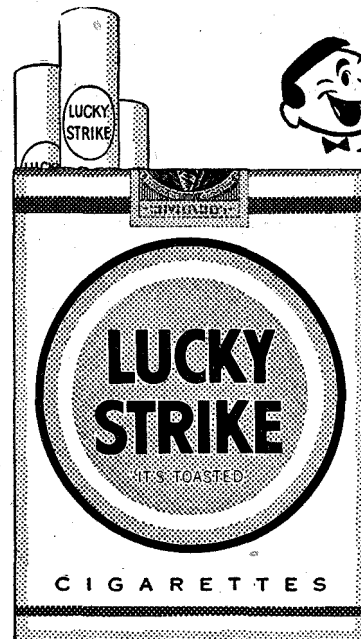
IT'S ONLY MONEY—but shoot your loot on any brand but Luckies, and it's so much lost cost! You see, a Lucky is all fine tobacco. Superbly light tobacco to give you a light smoke . . . wonderfully good-tasting tobacco that's toasted to taste even better. Matter of fact, a Lucky tastes like a million bucks—and all you're paying is *Pack Jack!* So make your next buys wise . . . make 'em packs of Luckies! You'll say a light smoke's the right smoke for you.

WHAT IS AN ANGRY EIGHT-YEAR-OLD?

RICHARD HILDRETH BUTLER U. *Riled Child*

WHAT ARE A SHEEP'S OPINIONS?

M. HOCHBAUM BROOKLYN COLL. *Ewe's Views*



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WHAT'S A NASTY, COTTON-PICKIN' BUG?

A/SC DAVID KELLY YALE *Evil Weevil*

WHAT'S A BURGLARIZED EGYPTIAN TOMB?

EDWARD ROHRBACH GANNON COLL. *Stripped Crypt*

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