

## ASCIT-Alumni Assembly Plans For Term Told

BY JOHN MIDDLEDITCH

Highly interesting and enjoyable assemblies sponsored by ASCIT-Alumni are now scheduled for next month, while others are already being planned for the remainder of first term. ASCIT-Alumni has already sponsored the Owen-Carstens talk on civil rights which drew a great deal of student enthusiasm.

The assemblies are held in Dabney lounge on Wednesdays of certain weeks at 11 a.m. The purpose of the assemblies is to provide an interesting program of speakers dealing with politics, arts, current events, and other non-scientific topics.

### Frosh Grades

According to Bruce Hudson, chairman of the ASCIT Assemblies Committee, the next assembly will be held in 201 Bridge on November 4, with Dean Foster Strong speaking about the results of the meeting of the faculty over the possibility of eliminating freshman grades.

The following week, on November 11, there will be an extremely entertaining assembly with Donna Burrow singing off-color Elizabethan folk songs. Miss Burrow was recommended for the ASCIT-Alumni program by that old friend of the cultured Techman, Jim Davis.

### Take in Small Doses

Assemblies which are now in the drawing-board stage include a talk from the professors who were involved in highly-controversial research at Harvard with LSD, a non-addictive drug of the hallucinogen class. It will temporarily produce powerful psychological effects when taken in small doses.

On October 28, at the usual ASCIT-Alumni time and place, there is a possibility of a talk by Pierre Salinger, the Democratic candidate for the U.S. Senate from California. If this assembly does materialize, it will be sponsored by the Young Citizens for Johnson group. Unfortunately, due to the fact that neither the YMCA nor ASCIT-Alumni can sponsor just one assembly of a political nature (both sides must be represented), there is little chance that either the Y or ASCIT-Alumni will have a political speaker this term.

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# Freshman Parents Invade Campus



Leon Fung, a physics TA, addresses a group of Parents' Day parents in his younger years. Note ring on right little finger, which he used to tap on the edge of his drum. You can see that Leon loves his work.

—photo by Boswell Smash

Just as the smog starts to clear away from the mountains, during the autumn of every year, the parents of the frosh are invited to a program at Caltech to familiarize them with conditions here. It's similar to Frosh Camp, with lots of speeches and introductions to the guiding lights of the campus, but it has a slightly different purpose.

The parent of the typical Caltech frosh, although he may be inclined to think differently, has not taken the college boards with his son and is not at present sweating through weekly math tests. The Parents' Day program this Saturday will try to present to the parents the difficulties their progeny are enduring.

### Stupid Frosh

Okay, so the random frosh graduated high school with honors, but he is average here. The student may have accepted this by midterms, but in order that his parents might, they are invited to listen to a series of speeches, take a tour of the campus, and observe their offspring in action.

This year there are about 240 parents expected, representing "back home" to about 120 freshmen. Foster Strong, Dean of Freshmen, says that a big jump can be observed this year in the number of parents emanating from the Northwest. The number of those visiting from the other ends of the world such as Georgia and Massachusetts stays fairly constant, he adds.

### Schedule of Events

The parents will have a fairly rugged schedule in the morning, including speeches by Dean Jones, Director of Admissions; Dr. Miller, Assistant Director of Admissions; Dr. Huttenback, Master of Student Houses; Dean Eaton, Dean of Students; and Dean Strong, Dean of Freshmen. During lunch there is an address by President Lee DuBridge.

The visiting immediate-family members will then be given an opportunity to rest their weary eardrums during a guided tour of the campus, which is to last most of the afternoon. At 3:30 they can rest their weary metatarsals at a Caltech Service League tea, but their day has just begun. They next meet their prodigal prodigies, and the fight begins, whether to eat out or not.

### Saga Wins Again

It is better than even odds that the young, vigorous frosh inured to the same routine their parents have just completed, will be able to prevail upon their elders the innate merits of avoiding Saga food. After dinner the frosh can give their side of the picture, with a delivery tailored to the individual parent. How much this will differ from the management's viewpoint might be significant.

The student may encounter problems in his first year here that he has not met before. Namely, he may be doing poorly. The

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## PKD, Y Debate

Pi Kappa Delta and the Caltech YMCA will present a debate on the topic, "Resolved, that Barry Goldwater would make a better President than Lyndon Johnson and therefore should be elected in 1964," next Tuesday, October 27, at 7:30 p.m. in Winnett Lounge. Debators will be representatives of the Young Citizens for Johnson at Caltech and the Caltech Young Republican Club.

Speaking for the affirmative will be Jim Gould, Max Bartlett, Ry Young, and Dave Close (team captain). The negative team consists of Roger Davison, Dan Metlay, Fred Shultz, and Sean Solomon (captain). Tech's forensic coach, Mr. Herb Booth, has agreed to serve as moderator.

### Direct-Clash Type Fight

To facilitate the examination of specific issues, an unusual format called direct-clash debate will be used. Following opening statements by each side, each issue is

considered by itself for several speeches on each side. Four issues have been agreed upon: defense strategy, foreign policy, government morality, and government economic responsibility.

Although the debate is primarily intended for those whose minds are not yet made up, all students, faculty, and friends are invited to attend, wear buttons, and carry signs.

## Zweifach Talks on Circulation of Blood for Lecture Series

BY HANK SUZUKAWA

Beckman Auditorium drew a fair crowd of physicians, students, and curious members of the public Monday night as Dr. Benjamin Zweifach lectured on the "Flow of Blood in the Microcirculation," the second in the Caltech Lecture Series. The lecturer explained, through words, slides, and motion pictures, the nature of the circulatory system, especially in the capillary regions, and the methods by which the circulatory system fulfills its mission.

Zweifach is professor of pathology at New York University Medical Center and is a visiting associate in Caltech's Engineering Department. He is a leader in the investigation of the microcirculation of blood and is working with engineers in the study of the fluid mechanics of blood.

### Blood Is Important!

Blood has many duties: it must provide cells with oxygen and food, carry away their wastes, and perform a myriad of other tasks that simple one-celled animals can perform through direct contact with their water environment. All these life-giving properties are of no avail, however, if

the blood is not circulated properly. Thus scientists cannot consider the capillaries as mere irrigation channels and hence of no major importance.

Since the blood is a complex mixture of everything from simple water molecules to very large proteins, and because the smallness of the capillaries creates new and unsolved problems in fluid mechanics, Zweifach and his associates have not tackled a trivial problem. Yet, in spite of its complexity, knowledge of the workings of blood in the capillaries is very important from a medical viewpoint.

### Spaghetti, Anyone?

The microcirculation maintains the internal environment around the tissues with almost 60,000 miles of capillaries and can change the environment around the tissues to match the specific needs of the tissues. To quote Zweifach, "the system is so complex that if I could not see it, I would not believe that it could work." Then, to prevent his audience from doubting, he showed films of various important microscopic parts of the circulatory system doing their jobs.

## Waser Visits Europe

Returning to the faculty this summer after his one-year leave of absence is Dr. Jurg Waser, professor of chemistry. Waser, a recipient of a Guggenheim Fellowship, visited Europe to compare how chemistry is taught in different countries. He traveled through Italy, Germany, Austria, and finally arrived at Zurich, Switzerland, where he had received his BS.

Basically, Waser found college level instruction consisted of the lecture method, but more lectures were delivered, and they contained more material than those in U.S. This procedure puts less emphasis on texts, but requires more information memorized. The lectures are supplemented by an extensive laboratory program. Compared with Caltech's labs, Euro-

pean labs are freer, but theoretical concepts lack the stress they receive here.

### Lucky Students

As a part of this program, Waser took over for about a month a freshman chemistry course at E.T.H. in Zurich, the Caltech of Switzerland. He found that European high schools prepare students better than American schools do, especially in languages, math, physics, and chemistry.

Incidentally, there is an interesting difference between American and European education systems concerning tests: European colleges have no mid-terms or finals! European students have two whole years to prepare for a biennial comprehensive exam.

## Notices

### SUNDAY EVENING FELLOWSHIP

A newly formed Christian fellowship group for college students primarily from Caltech and PCC is now meeting Sunday evenings at 7 p.m. at Knox United Presbyterian Church, 225 South Hill Ave., one block north of Caltech.

### SURFIN' USA

There will be a short organizational meeting of the Surfing Club tonight, at 7:30, in the Lloyd Conference Room. All those interested in becoming members should attend or leave a note in the "F" box in Lloyd. A free guided tour of the club surfboard will follow the meeting.

### DRAMA CLUB DRINKS

All bums who want to affiliate with the Drama Club but don't want to work—just talk drama and so on—come to the Lloyd Conference Room, Wed., Oct. 28, at 7:30 p.m. We'll organize a few pretzel sessions.

### ELECTION POLL RESULTS

Results of the election poll now being taken by the YMCA in the Houses and among grads, faculty and employees will appear in the Oct. 29 issue of the Tech.

### DANCE CLASS

Don't forget the ASCIT Dance Class, tonight, 8 to 9, Clubroom 1. Lots of women; dance in Page House immediately following.

### FRENCH BOOKS

Students who took L 1 during the last three years and still possess their copy of Palmeri's **First Year French** are requested to lend their copy to the Language Department for the rest of this academic year. Please deposit them at the Humanities Office, 6 and 7 Dabney. Receipts will be given.

The book is now out of print, and several students taking L 1a are unable to buy a copy.

### BASKETBALL MANAGERS NEEDED

Official basketball practice for both varsity and frosh begins next Tuesday. Managers and a statistician are needed. Interested students should contact Coach Priesler at once.

### PROP. 14 DEBATERS SOUGHT

Anyone interested in participating in a one or two man debate on Proposition 14 should contact Dan Metlay at 59 Ricketts immediately.

## Editorials

## Frosh Grades

The faculty will meet Friday to discuss a proposal, recommended to it by the temporary Committee on the Freshman Year and the Faculty Board, to eliminate all grades for freshmen starting immediately. A week from then the faculty will probably approve the committee's proposal. The change will affect the present frosh class and the frosh to come in many ways. Whether the effect will be beneficial, superficial, or harmful can, of course, only be evaluated after the fact.

The major objective is to create a real intellectual and scholarly climate, as opposed to the narrow grade-getting atmosphere that has been seen by some. Thus by eliminating grades, the frosh will not be under the constant pressure of making good grades on all tests and quizzes. The idea is to give the frosh the opportunity to enrich and enhance his supposedly natural enthusiasm. The hope is that the good students can excel and enjoy intellectual pursuits.

At first glance the idea of relieving the pressure of grade getting seems reasonable. The idealistic thought that most people admitted to Tech can work and learn a subject for the abstract principle of education is momentarily reassuring. But I have not found this to be the case.

It seems reasonable that without the incentive many people will slough off in courses they do not like. This probably will be felt most in chem and the humanities. If a student goes into a course knowing he need do only enough work to pass, why take it at all?

It has been recognized by the faculty committee that some people will be directly hurt. These are the ones who slough off too much, hence do not learn the essential material, and those who will be kept in the Institute for an extra year, because they could not find how tough grades could get.

The faculty committee has undoubtedly considered all the evidence and indications that they had available and have weighed the advantages and disadvantages of the system with all sincerity. It is unfortunate that the faculty did not solicit opinions from upperclassmen who have been through the gauntlet. The student opinion now is far from universal. Of course, this opinion would be only one part in a final decision. The faculty has the ultimate authority and responsibility.

—Wally Oliver

## Letters

## Health Plan Necessary?

## Editors:

I wish further clarification of the system of student health insurance adopted recently by the Institute and discussed in recent letters to the **Tech**.

In the explanatory note issued last week by Dr. DuBridge, no mention was made of the very important principles underlying a compulsory health program. The statement was in fact made with the tacit assumption that a compulsory program is indeed the Institute's responsibility to carry out. I do not see why this is so.

Most of us can appreciate the Institute's concern for students' academic welfare, but by no stretch of the imagination can I rationalize its concern for students' physical welfare in the form of a compulsory health insurance program. The matter of personal health insurance is strictly relegated to individual consideration and initiative, and is not under any circumstances the responsibility of an academic institution.

The problems of duplicative insurance programs and annually increasing expenses (no one seems to know what the terminal cost of the program will be) are simply the result of requiring the deferment of individual judgment to the deliberation of committees. Perhaps someone can justify for me the undertaking of this presumptuous task.

Gary Edwards

## SELL ADS

Once again this year the California Tech is offering Techmen the golden opportunity to help the **Tech** by helping themselves.

The **Tech** is offering a 15 per cent commission on all ads sold by Techmen. This commission is paid not just on the first insertion, but every time the ad is run this school year.

**Tech** ads cost \$1.40 per column inch, and thus the commission amounts to \$0.21 for every column inch of advertising sold. The commission on a Falstaff ad, for example, would be \$12.60 for each insertion.

Selling ads is not as difficult as it may sound. Many Pasadena retailers can be talked into advertising with relatively little effort. Local stores such as Oak Knoll Cleaners, Pie 'n Burger, etc. are especially "vulnerable" to an ad pitch for the **Tech**, and the commission is pretty good recompense for the time spent (little t advertisers are also good prospects).

For further information, rate letters, publication schedules, or any other material you might need, contact J. C. Simpson, **Tech** Business Manager, in 242 or 244 Ruddock. Phone is campus extension 554.

## Assembly

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The money which makes all of the ASCIT-Alumni assemblies possible is donated to ASCIT by the Alumni. ASCIT works in cooperation with Professor D. S. Clark of the Engineering Division, who represents the Alumni.

## From Other Campuses

## By Jace

The following column, entitled "How Square the Bear Or A Cracker Look At Lyndon," is reprinted from the Georgia Tech **Technique**, "the South's liveliest newspaper." Use its brilliant analysis of the political scene to help you in choosing your candidate in November.

Once upon a time there were four bears: Barry, Lyndon, Hubert and Bill. They all lived together in a great big forest on the banks of the Potomac known as the Schwarz Wald and were considered to be the leaders of the land with "Big Lyndon" in charge.

Now every four years there was a big meeting of all the bears in the land to decide whether to keep Lyndon Bear or whether he needed to be replaced. Some of the bears thought he had been too nice to the black bears and others thought he had been keeping more than his share of the honey. In short, they nominated Baby Barry as his opponent in the coming contests.

Baby Barry had a lot going for him, he liked the little business man bears and tried to see to it that the polar bears didn't lose any of their rights. He advocated more pine cones for defense against the fierce Russian Bears and less fish for the lazy grizzly bears who refused to learn how to fish for themselves. Barry was a good speaker and managed to convince a lot of his group that he knew the bare facts of what we going on up there in the Schwarz Wald. He gathered the support of a group of Welsh Bears known in the forest as Birch bears and other smaller groups that felt something had to be done. Now all these groups that were "in" with

Barry knew his secret name was "Bud." In moments of admiration they were heard to sigh, "That Bud, that's Bear."

Lyndon Bear soon found out about Barry and decided that he needed to show the bears that he was the bear to man the load. He appealed to the grizzly bears by offering them free fish. He called it a war on poverty; the small business bears called it a giveaway. He then appealed to the black bears by doing away with social discrimination led by the polar bears. He called it civil rights. The polar bears called it many things, all unfit for our ears. He had an Ad bear write him a catchy slogan about Let US continue. The bear's name was Lib.

Now most of the ordinary bears weren't really interested in the issues, though they didn't want a mispitched pine cone to bring about the end of the forest nor did they want Lyndon eating all that honey. Lyndon did promise to check into things right after the election but then so did Barry.

In the same forest lived some fierce lions known far and wide as the literary lions. They were divided into two groups, those for Lyndon who wrote the newspaper and those for Barry who wrote pamphlets. The newspaper lions seemed to treat Barry badly as they always presented him as saying things he didn't mean, while the bok writers tried to prove Lyndon was involved deeply in the Baker Bear Affair. He was the boyfoot bear with teaks of chan. He was also Lyndon Bear's closest subordinate in the forest.

The Polar Bear extremists sent all the books around for all the other bears to read so that everybody muttered darkly about what was going on in the Schwarz Wald and how it was going to the dogs so that pretty soon the Russian bears could take over it something weren't done. "Give Barry pine cones," they shouted. "He will show those Red Bears a thing or two!" They liked to walk around shouting "Ammecha Fust!" whenever they met one another. Needless to say they thought Lyndon was a bare-faced liar.

Baby Barry Bear had trouble with the newspapers and Lyndon with the accusations. Barry de-

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## By Don Green

## The Night of the Iguana

Once again, the cinema has sought to capture the stage mastery of Tennessee Williams. And, as before in **A Streetcar Named Desire** and **Sweet Bird of Youth**, something vital has been lost in the translation. The most distinctive gift of Tennessee Williams is his mastery of the character who is larger than life, one who transcends the limitations of the person and carries the weight of humanity upon his shoulders. And here is where the Hollywood productions fail. Concerned primarily with characters "realistic" to the viewing public, the screen writer has overlooked the vitality imparted by Williams-the-artist.

The substance of Tennessee Williams' lesson in **The Night of the Iguana** is the eventual reconciliation of violence and depravity through man's quiet endurance. The world's most vicious sin, viewed by the Rev. T. Lawrence Shannon, is "man's inhumanity to God." Man's actions are motivated by his own fears; each is pursued by his personal "blue devil."

The path to salvation is not the act of repentance, but rather a dark, personal journey where the old poet's cry becomes the prayer of mankind:

O Courage! In that golden tree  
Implant within the heart of me.

Despite the failure to give Williams' "characters" free rein, the film's director does deserve special credit for his delicate treatment of the poet's ever-present symbolism.

## Where's Liz?

The success of **The Night of the Iguana** in spite of the flaw mentioned above, is made possible by a brilliant performance by Richard Burton. The role of the Rev. Shannon is fraught with temptations to the actor subject to visions of grandeur and Christ-identification. Mr. Burton, however, preserves the essential blemish of imperfection even in his most triumphant moments. Even more than Brando and Newman before him, he seems to sense and capture the very soul of the Williams "hero."

The other two major roles represent what Williams terms the two levels of earthly existence —

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## Kirk Talks Tomorrow

Professor Russell Kirk, one of America's leading conservative scholars, will present a major address tomorrow evening at 8 in Beckman Auditorium. Kirk, who will speak on the conservative philosophy in America, is in California for a three-week speaking tour.

The speech, which is being sponsored by the Caltech Young Republican Club, will be preceded by an informal discussion with students at 4 p.m. in Winnett Lounge.

After receiving his undergraduate education at Michigan State University, Kirk did graduate work at Duke and St. Andrews Universities. For the past seven years he has been professor of political science at Long Island University, where he has written several books and writes a syndicated daily column.

Tickets will be available Tuesday, Wednesday, and Friday from 10 a.m. to 5 p.m. in the ticket office of Beckman.

## Debate at UCLA

The Caltech debate squad attended the first speech tournament of the season at UCLA on October 16 and 17. At the tournament 667 students from 42 schools from the states of California, Utah, and Arizona, participated in debate and individual events. Caltech was represented in debate by Dave Close, Gary Scott, Mike Casteel, Kermit Kubit, and Jim Gould. There were 148 debate teams entered.

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## The Critical Ear

BY TOM MCKENZIE

**Dizzy Goes Hollywood**  
(Phillips — PHM 200-123)

This record, available in both stereo and monaural, is a jazz treatment of themes from eleven popular movies. Dizzy is featured on trumpet with an anonymous rhythm section and tenor sax. Gillespie's sound is, as usual, polished and brilliant, but excellent technique alone doesn't make good jazz. The choice of songs in this album is rather poor; about all they do is show that many tunes are not suitable bases for inspired improvisation. Perhaps a better description of the album is that of a jazz group merely playing the music.

There is, however, one track which has some value. "Walk on the Wild Side" is one of the best things Dizzy has done in the past three years. The soft, relaxed solos of this long piece are the highlights of the album. Particularly impressing is the tenor work in this number. Incidentally, the tenor sounds a great deal like James Moody, who plays in Dizzy's regular quintet. Moody's control while playing a duet with the trumpet in "Wild Side" makes the duet sound like a trumpet solo with tenor accompaniment, except they're both playing the same line. His tasteful solo in this number also makes him a person to watch for in the future.

### Dizzy for President

There are also some good moments in the "Picnic" theme. Although the rest of the song is played reasonably straight, the trumpet solo swings. If you have never heard Dizzy, this might be a good number on which to start. The solo retains much of the

flavor of the George Duning composition, and Dizzy's style fits the piece well.

The album — except for "Walk on the Wild Side" — holds very little for someone already familiar with the records Dizzy cut in the late forties. It probably is interesting for people who want a bland and easy introduction to the music of one of the founders of bop. If you are curious about the meaning of improvisation, you might try comparing this album with the "Great Motion Picture Themes" album series by United Artists. A bit of warning to those who have never heard Dizzy before — don't be alarmed by the sudden octave jumps, the syncopated base drum, and the steady 4/4 beat on the cymbal: this is bop.

For anyone looking for a more substantial and swinging Diz, "Night in Tunisia" and "Anthropology," both recorded in 1946, are available on several albums. Some of his more recent works include "Something Old, Something New" (Phillips) and "Diz in Greece" (Verve).

# Moonwatch Team Spies

BY JOHN ROUSE

The brief duration of the recent Soviet three-man space flight was no accident, according to the Caltech Space Patrol. The Patrol announced that the Russians had orbited a test vehicle the previous week, and recovered it after only one day in space. Apparently the test was strictly a dress rehearsal for the manned shot. Although this test vehicle, designated 1964-62A, was not observed by the Patrol, its rocket body was sighted on two occasions.

### Bigger and Better

The Voskhod space ship, 1964-65A, was kept in space for only 16 orbits, and hence it was not observed here. However, its rocket body remained in orbit until Wednesday, and unsuccessful attempts were made to observe it from Caltech. Observations of the test vehicle's rocket body and reports on the Voskhod rocket indicate that the Soviets are indeed using a new and larger booster.

This rocket body was brighter than previous Soviet rockets, and even appeared to be brighter than the upper stage of the US's Saturn rocket. This indicates that the Soviet Union has a booster physically larger than the Saturn, which does not necessarily mean

that it has a greater payload.

For the past year or two, the USSR has been using two types of rockets for space shots: a medium-sized one for satellites launched in orbits inclined 49° to the equator, and a large booster for satellites in 65° inclination orbits. Their manned shots have fallen into the latter category. Before each booster type was put into operation, the Russians conducted a series of tests in their Pacific test range. Thus, the appearance of a new booster was no real surprise, as there was a series of tests last summer.

### Spy vs. Spy

The USSR has released no information on any of its rockets, for what must be military reasons. Also, very little is released about their satellites, except when there is little doubt that the US already has the information, or when there is a propaganda advantage to be gained.

In the past three years they have had several unsuccessful lunar and planetary probes, including a Mars shot and a Venus shot, each of which went on proper trajectory but suffered electronics breakdowns. The majority of Russian attempts have resulted in their placing a larger object into

a low earth orbit and having it blow itself into many pieces. One such attempt apparently headed off for Mars, but broke into two dozen fragments after a few seconds of firing. Their problems appear to be centered around the interplanetary probe itself. Shades of Ranger!

Congratulations,  
KIRBY  
and  
RICK!

## Audience

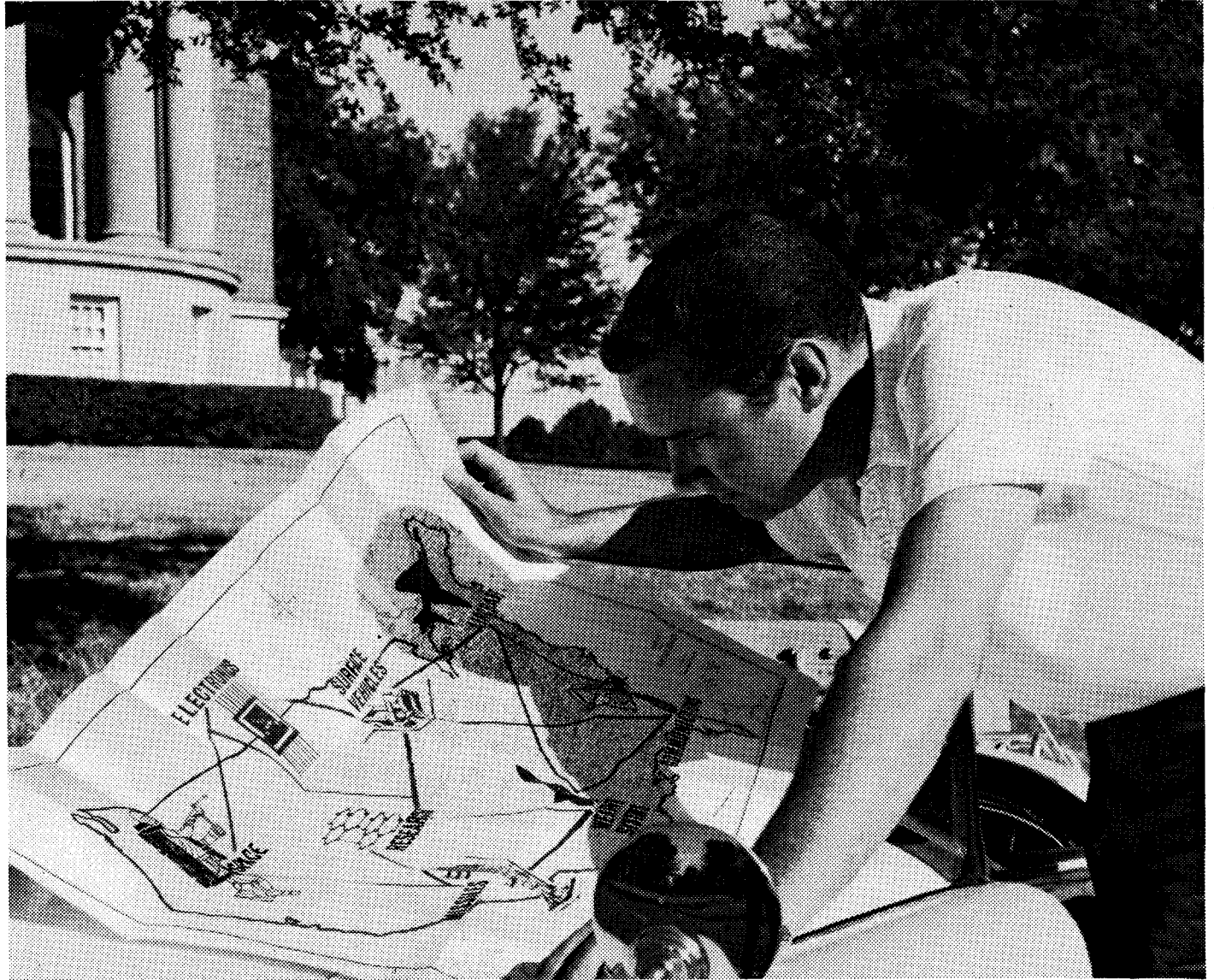
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the "fantastic" and the "realistic." The play's theme is Shannon's encounter with the first level and his eventual reconciliation with the second. Deborah Kerr's portrayal of the middle-aged Nantucket spinster is superb. It is her task to retrieve the wayward Shannon and effect his reconciliation to his fate; this she accomplishes with taste and finesse.

The role of the Widow Forbes seems destined for Ava Gardner. The competition between the two levels seems one-sided throughout most of the film, and the final outcome is both surprising and significant. The Rev. Shannon returns with quiet humility to the "realistic" existence with the Widow Forbes, with only the memory of his "fantastic" encounter.

### Obscenity is the Salt of the Earth

Regretfully, Sue Lyon was given another speaking part. One cannot deny her positive contribution to the charm of old Mexico, but her talent as an actress destines her for a long series of "I Was a Middle-Aged Lolita" thrillers.



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# SPORTS

## Soccer Team Wins Two

BY HORNSWOGGLER

Caltech's soccer team continued its winning streak by defeating both Riverside and Santa Barbara this week. Riverside was swept aside 4 to 1; later in the week Santa Barbara found itself on the short end of a 5 to 1 score.

In an afternoon game against the Riverside JV and varsity teams, Caltech displayed the three qualities which it has displayed in all of its games thus far — lack of conditioning, superb individual ball control, and intermittently good teamwork. Caltech, however, had complete control of the game from the very beginning to the final whistle. Triskuk and Mortell scored a goal apiece in the first half to put Tech ahead. Toward the end of the half, Riverside scored one goal on a fast break down the middle of the field.

The second half produced two goals, one by Cline, the other by Mahn. UCR attempted to score again by breaking through the middle, but all threats were easily contained by Caltech's rapidly improving defense.

The junior varsity game, which was played earlier in the day, resulted in another Tech win, as the JV's blanked Riverside by a score of 1 to 0.

## Webmen Lose Two Matches

Obviously outclassed, the Caltech varsity water polo team lost two games away from home at the end of last week, losing to El Camino, 15 to 6, before bowing to Cal Poly (Pomona), 13 to 3.

Against El Camino last Wednesday, Tech was shut out by their opponent's first team during the first and third quarters, scoring all 6 goals against the second string. Two days later, they invaded Cal Poly in a rare night contest. Playing under the lights presented problems to the Beavers, unaccustomed to night conditions. Superior swimming and alert playing were the key factors in Cal Poly's victory; however, Tech was not as bad as the score seems to indicate.

The leading scorers in the two games were Nielson with 5 goals and Maynard with 2; the other goals were scored by Touton and Walter, who tossed in one goal apiece.

On Saturday afternoon, Santa Barbara invaded Caltech, in what was expected to be a very rugged game. To complicate matters, several key players for Caltech were missing; the few available substitutes were effectively utilized in the defensive positions (Hornswogglers ride again).

Many of Tech's fears were fulfilled in the first half. UCSB took control of the game, maintaining it throughout the first half. Caltech could not construct a good offensive; meanwhile, Santa Barbara's excellent long passes from the center of the field badly pressed the Tech defense. Fortunately for the Beavers, UCSB managed to score but one goal by the end of the first half.

### Santa Barbara Retreats

Santa Barbara found its match in the second half. Tech began a vigorous passing game which ran their opponents into the ground. The first line mounted repeated attacks on the Santa Barbara goal, scoring 3 goals in about 5 minutes. The patchwork defense ironed out its difficulties and squelched Santa Barbara's occasional threats. By the time the second half had ended, Tech outscored their opponents by the large margin of 5 to 0. Only two men contributed directly to the scoring — Frishuk knocked in 2 goals, while Mahn scored 3.

This game indicated that Caltech's soccer team is rapidly solving its problems and developing into a powerful team.

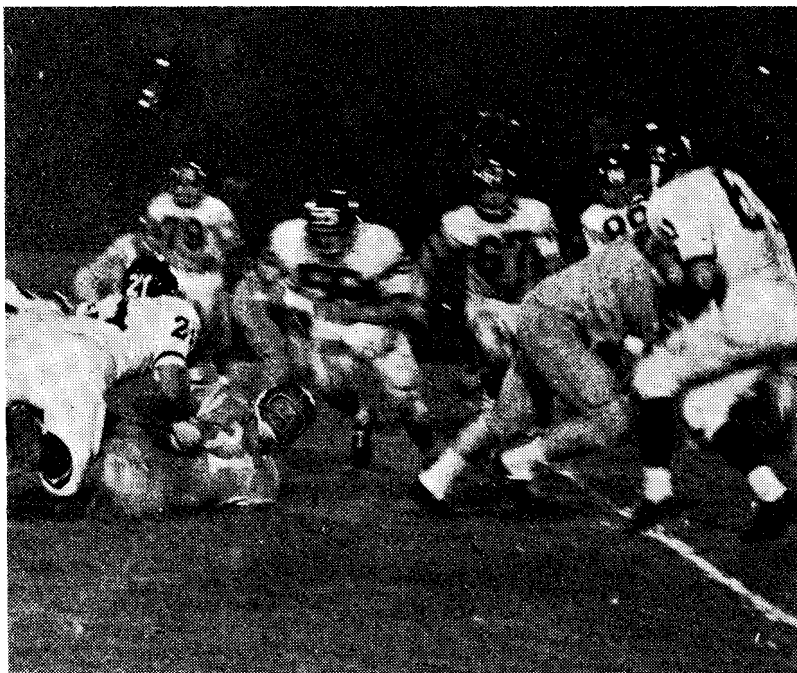
## Flems Defend Discobolus

Last weekend, in the first Discobolus match of the year, Fleming defeated Blacker in a tennis contest that was decided by the final match.

Prior to the deciding fourth singles contest, Fleming had won first and second singles, Don Green and Roger Davidheiser defeating their opponents. Blacker also had two victories by virtue of Bill Pate's triumph in third singles and a Sirelson-Ludwig win in the doubles match.

Perry, of Fleming, after being behind 2-5, came back to win the first set of his match 7-5, before taking the second set 6-2.

Lloyd will be the next House to challenge Fleming.



Tech fullback Dinius is surrounded by several Pomona players after picking up yardage against the Sagehens last week at the Rose Bowl. Caltech lost the game 26-0, despite the fact that the Beavers outgained Pomona on the ground.

## Pomona Takes to Air; Beats Beavers 26-0

This is the year of the forward pass, and Pomona's Prairie Chickens spread their wings and took the air route to victory as they defeated CIT's Beavers 26 to 0 Saturday night at the Rose Bowl. The statistics tell the story: CIT outgained Pomona 129 yards to 122 on the ground, but the Pigeons flew for 276 yards and eight first downs to Tech's 13 yards and no first downs.

There are never many bright spots in a losing ball game, but the indefatigable Techmen managed to come up with a few. Despite weak offensive line play (no doubt due to the fact that the Parrots outweighed the Techmen by some 20 pounds per man on the line), the CIT backs managed to lose only 8 yards while Pomona lost 44. Brennan, Mowery, and Frazzini contributed good runs when they found holes.

The CIT defensive line was outstanding. Dinius, playing defensive tackle for the first time in his college career, was in on the tackle as often as not and personally stalled a Goldfinch

drive by throwing backs for long losses. Harley, Kampe, Myers, Jackson, and Josephson were veritable bulwarks. McWilliams, at defensive halfback, killed a Sparrow drive by batting down two long passes, and generally played amazingly well for a man with no high school experience: another man to watch.

### Still Hope

Generally speaking, although the team has several good individuals (CIT's punter, Steve Hall, is among the top 20 in the nation), the team has not yet jelled. Two games and another week of

(Continued on page 5)

## Frosh Harriers Beat Redlands; Varsity Loses

The Caltech varsity cross country team suffered its first loss of the season against Redlands Friday, while the Tech frosh ran to an impressive victory over the freshmen from Redlands.

In the varsity race a dozen men from Redlands jumped ahead of the Caltech runners at the start and held their lead through three miles. After a slow start Pete Cross was able to place seventh as Caltech lost 15 to 49. The course record of 15:56.2 held by Early of Caltech was broken by Larsen of Redlands with a time of 15:30. Larsen's mile and two-mile times were 4:57 and 10:15, respectively.

In the frosh race, a Redlands man took an early lead but Bill Putman of Caltech passed him near the mile mark and came in for an easy win in 10:28. Others from Caltech who placed were: third, Mike Meo; fifth, Steve Poltrock; seventh, Dave Kolb; and eighth, Dan Hammons. The final score was Caltech 24, Redlands 31.

"If you always think of the physics, you'll never have any trouble ever, anyhow, anyway."  
—G. Zweig

## Next Week's Sporting Events

CROSS-COUNTRY			
Fri.	Oct. 23	4:15 p.m.	Claremont-Mudd at Claremont
FOOTBALL			
Sat.	Oct. 24	2:00 p.m.	La Verne at La Verne
SOCCER			
Sat.	Oct. 24	9:00 a.m.	Cal Poly (Pomona) at Caltech
VARSITY WATER POLO			
Fri.	Oct. 23	4:00 p.m.	Pomona at Caltech
Tues.	Oct. 27	4:00 p.m.	L. A. State at L. A. State

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NAKED NIGHT  
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Sat. & Sun., Oct. 31 & Nov. 1  
DREAMS  
SMILES OF A SUMMER NIGHT

Mon., Tues. & Wed., Nov. 2, 3 & 4  
BRINK OF LIFE  
THE MAGICIAN

Thurs., Fri. & Sat., Nov. 5, 6 & 7  
THE 7TH SEAL  
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# Cavalier Features Tech Football Team

Although the sports page of the California Tech is concerned mainly with the results of various athletic activities, occasionally a sports article in a periodical or newspaper worthy of the attention of the Caltech community comes to our attention. We feel that the article by Joseph N. Bell on Caltech: Phi Beta Football (Cavalier, October, 1964) falls into that category.

This article is concerned with the many aspects of Caltech athletics in general, football in particular, that are relatively unknown to those not in close contact with the Caltech campus. A considerable amount of space is devoted to stories emphasizing a few main points.

## Caltech Football Factory?

The article attempts to explain the difference between Caltech football and the type seen by millions of sports enthusiasts on television each weekend. Bell seems to get to the heart of the problems so evident at Caltech. For example, he states a typical case of a student not out for a varsity sport for which he is qualified:

"Usually the excuse given is, 'I haven't time to practice. It takes all my time to keep my grades up enough just to stay in school.'"

"The rationality of this argument sometimes obscures its validity. Caltech is tough, but it's not that tough for all of the students who could compete in

## IH Softball

Ruddock stunned Fleming last Wednesday afternoon, scoring six times in the third inning in the season's biggest upset, to take the lead in the Interhouse softball race with a 3 win, 0 lost record. Ricketts, yet to play Ruddock, is only one game behind the men-in-blue.

Tremendous scores continued to be run up during the first week and first day of the second; an average of over 15 runs per game has been scored in the five-inning games played thus far. Sloppy defense, slow and inaccurate pitching, and good bunting have resulted in the extensive offensive outputs. With the possible exception of Fleming, no team has showed any exceptional hitting ability or potential. However, daring baserunning and occasional fine playing has caused most games to be quite exciting for the spectators. Except for three games, the scores have been very close, causing much anxiety until the final out was made.

### IH SOFTBALL STANDINGS

Team	Won	Lost
Ruddock	3	0
Ricketts	2	1
Blacker	2	2
Fleming	2	2
Lloyd	1	2
Page	1	2
Dabney	1	3

### GAME RESULTS

- Blacker 16, Dabney 4
- Fleming 13, Page 0
- Ruddock 8, Page 5
- Lloyd 9, Ricketts 8
- Ruddock 9, Fleming 7
- Dabney 10, Lloyd 6
- Page 9, Blacker 8
- Ricketts 3, Dabney 1
- Ruddock 15, Blacker 10
- Ricketts 5, Fleming 4
- Blacker 23, Lloyd 3
- Fleming 7, Dabney 4

SW...ETAOIN SHRDLU cmf uuu  
AARDVARK SUBLI.....

## Football

(Continued from page 4)

practice may provide the needed catalyst. LaVerne, Tech's next opponent, will be as tough as Pomona, but the Beavers may surprise LaVerne as well as loyal rooters if things fall into place.

### The Play-By-Play

Myers' kickoff was returned to the Pomona 24. On the first play Haynes passed to Dundas for 76 yards and six points. Weaver's kick was good, and the Flycatchers led 7 to 0 after 40 seconds of play.

Dinius returned the kickoff to his 41, but Tech had to punt. On Pomona's 21, violent defense by Kampe and Jackson cost Pomona ten yards and forced a kick. Tech kicked back and the Parakeets began a drive from their 9 which stalled when Hall and Mowery knocked down passes. After Pomona punted for eight yards, CIT found itself in possession on the Bobolink 37. But Hall's second pass was intercepted by Carver, who was brought down with a resounding tackle by Peters. The Magpies punted out of danger after Scott almost intercepted one of Haynes' aerals.

### Second Quarter

CIT opened the second quarter with a drive commencing on the Tech 22, and proceeded in short

gulps to the Budgie 45, where, after two no-gainers, Carver picked off another Hall aerial to inaugurate a Cowbird offensive from their 47. A Haynes-Dundas pass picked up 17, and some short gains put the ball on Tech's 11. A highly questionable pass interference call against McWilliams on another Haynes-Dundas effort put the ball on CIT's one-yard line. About time for a goal line stand.

On first down Dinius broke through and spilled Pomona's Mills for a loss of four. A pass fell incomplete. Kampe held Mills to one yard, and it was fourth and four. Gambin, sweeping left end, bulled his way into the endzone, but lo and behold a double penalty was assessed (CIT offside and Pomona illegal procedure) which nullified the play. Fourth and four again. Haynes faded to pass, and Dinius shot through and smeared him for a loss of ten. End goal line stand.

Tech punted out to midfield. Buzzard passes gained 11, 18, and 17, and it was again first and ten on the one. This time Haynes played it smart; two quarterback sneaks got him into paydirt. Weaver kicked and it was 14 to 0. The Chickadees kicked off and the half ended.

Tech received to open the sec-

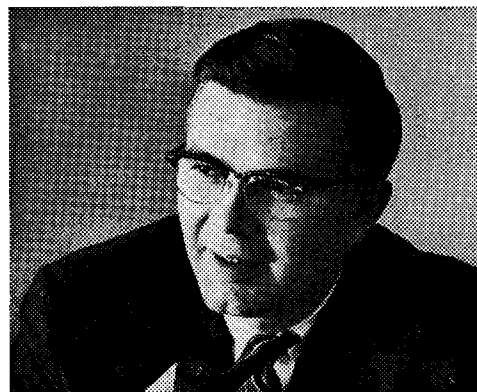
ond half and punted. The Squabs drove to Tech's 59, at which point Guffrey intercepted a fourth-down pass on his 29, but dropped it and Mowery recovered. Chapyak's first-down pass was intercepted by Pomona's Dahl on the Tech 41. Haynes promptly cranked up and hit Dundas for a 41-yard TD. Weaver's kick was partially blocked by Harley and Guffrey and the score was 20 to 0.

Brennan returned the kickoff to Tech's 32. A short drive, highlighted by Mowery's 12-yard pickup, ended in a punt to the Titmouse 15. Haynes-Dundas clicked for 30 and 17. Harley threw Haynes for a loss of ten, but he calmly zeroed in on Dundas again, who made a fantastic falling catch on the CIT one. This time Gambin was not to be denied, and he bulled in for the TD. Weaver's kick was no good; 26 to 0.

Tech received and punted. The Guinea Fowl began a drive that died when Kampe and Harley threw Pomonans for losses. CIT took over, but Chapyak's long bomb was intercepted by Dahl. Haynes cranked up again, but fine defense by Scott and McWilliams shut him off and the Canaries punted. CIT began a drive, with Frazzini rambling for 11 and Mowery hitting Levinson for ten as the game ended.

## STEP FORWARD WITH FORD MOTOR COMPANY

*An Open Letter to the 1965 College Graduate from Donald N. Frey, Assistant General Manager, Ford Division of Ford Motor Company*



Donald N. Frey was awarded a bachelor's degree in metallurgical engineering by the University of Michigan in 1947 and a doctorate in 1950. One year later, he joined Ford Motor Company as manager of the Metallurgical Department in the Scientific Laboratory. In 1962, Dr. Frey was appointed assistant general manager of the Ford Division with responsibility for all engineering, product planning and purchasing activities. He is 41 years old.

America's automobile industry is in the midst of a challenging era, with prospects of an even more exciting and demanding tempo in the years to come. Ford Motor Company is determined to achieve leadership in all phases of its operation. This leadership promises to bring lasting success to the company, its employees and its stockholders.

It will take people to accomplish this objective. Engineering, finance, styling, marketing, product planning, sales—all require people with the knowledge, judgment and personal drive to avail themselves of the unprecedented opportunities offered by a great industry.

The automobile business is growing. More cars are being bought now than ever before. With increases in population and consumer buying power, even more will be bought in the future. Realizing this, Ford Motor Company seeks to attract college graduates who have the capacity to grow with the company and the market.

Right now, our plans call for employing about a thousand of the best 1965 graduates we can find, with all types of educational backgrounds. We need specialists, but we also need persons with broad liberal-arts training who can handle a wide variety of assignments. Actually, in our company, many graduates grow into jobs totally unrelated to their degrees. They have discovered that Ford offers intellectually challenging opportunities for those with the ability to seize them. We invite you to make the same discovery.

Contact your Placement Office and arrange to see our representative.

*Donald N. Frey*



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# Brewing



In Dante celebration of rare prolate-spheroid transformation contest with LAPutrific came one Ihasbeen to fame and notoriety. Beak learns that chosen one was with a group of untouchables at infinite wetness source, dumping puckie on people's preventer of Inferno and Conflagration, who, assizing great odds agin him, did not press his request for them to retire from source, lest the wrath of Beak descend upon them, but rather informed nearby fuzzy one of group's presence.

### Who Ees Mothra?

Fuzzy wuzzy garfs over and warns underlings and Ihasbeen

to split for beddy-bye, whereupon the dry I suggests that ossifer note number of him compared to number of them. This answer displeased the pokey-loader, and he decreased I's degrees of freedom mechanically and stuffed him in fuzzmobile.

Friends and acquaintances protested with wailing and gnashing of teeth, and the Constable, out of his deep and genuine love for Techsons, and out of fear of being minutely dissected, released our hero, with face-saving mouth-spewings. Thus triumph the forces of Mothra.

## Other Campuses

(Continued from page 2)

veloped a complex and Lyndon buried his head in the sand and tried to look sincere.

As I said the regular run-of-the-mill bears didn't know what to do, so they followed Lyndon's example because everyone agreed that he was real gusto in a great white bear. Besides, taking honey was part of the ceremony for belonging to a secret club called the Quorum Club. It was so secret that even its members didn't know any thing about it. What more could anyone do when there was honey and fish for all, why not let him stay? Old Gallup bear said he would win anyway.

Some of the bears didn't like Lyndon or Barry but thought they would vote for Barry so all the Republican Bears could have a party in Lyndon Bear's part of the forest. So they did. They called it a BEar blast.

## More Parents

(Continued from page 1)

parent, if he is acquainted with conditions at Caltech, can better cope with such an unexpected situation. Besides, maybe the frosh's younger brother wants to come out to California when he graduates high school. Here is a chance for the parent to get a firsthand view.

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