

# The California Tech

Volume LVII

Pasadena, California, Thursday, October 27, 1955

Number 5

## Interhouse themes disclosed

### NAS to hold meeting on Tech campus November 2, 3 and 4

Caltech will host the autumn meeting of the National Academy of Sciences, November 2, 3 and 4. Between 80 and 90 Academy members will attend the Pasadena meeting, according to Dr. Carl G. Niemann, Caltech professor of chemistry and chairman of the arrangements committee. Dr. Detlev W. Bronk, President of the Academy, will be among those attending.

The purpose of the meeting is the reporting and exchange of information on important scientific work. In a series of five scientific sessions to be held during the three days of the meeting, some fifty papers will be presented on current research in astronomy, biology, chemistry, engineering, geology, mathematics and physics.

A public address, "The Value of Science," will be given Wednesday, November 2, by Dr. Richard P. Feynman, professor of theoretical physics at Caltech. He will speak at 8:30 p.m. in Culbertson Auditorium.

A reception for members of the Academy will be held Thursday afternoon by Dr. and Mrs. Lee A. DuBridge and Dr. and Mrs. Detlev W. Bronk at the DuBridge home. Later, at a dinner for Academy members and guests at the Athenaeum, Dr. DuBridge will speak on the subject, "Higher Education in Australia and New Zealand." Dr. DuBridge spent last summer on a tour of universities and scientific institutions in those two countries.

The National Academy of Sciences was founded in 1863, under a Congressional Charter approved by Abraham Lincoln. Membership is by election and in recognition of outstanding achievement in scientific research. The Academy now has 542 active members, 27 of whom are on the staff of Caltech.

### L A Phil seats still available

Tech undergrads and grad students may still purchase subscription tickets to the Los Angeles Philharmonic concerts at a 20% discount. These rates apply to groups of six, 12 or 18 concerts to be given on Thursday and Friday nights and Friday afternoons at the Philharmonic Auditorium in Los Angeles.

With the purchase of a series ticket also goes the privilege of attending several rehearsals of the orchestra during the season and attending the "Stub Club" parties which are held after the concerts at the Biltmore Hotel.

The concert season begins on November 10, and since only a limited number of these seats are available, orders should be in by tomorrow or early next week. To place orders or to secure further information on the ticket see Bruce Blackie, Bob Johnstone or Al Farley in Blacker.

The Los Angeles Philharmonic will also be giving its usual series of concerts in the Pasadena Civic Auditorium this year.

### Elimination of smog problem to be discussed

"Smog Is Our Problem" is the title of this week's Friday Evening Demonstration Lecture to be given at 7:30 and 8:45 p.m. in room 201 Norman Bridge Hall of Physics on the Caltech campus.

Dr. A. J. Haagen-Smit, professor of bio-organic chemistry at Caltech, will be the lecturer, discussing the elimination of smog as an engineering project.

Professor Haagen-Smit has just returned from an extended tour of eastern United States, where he visited laboratories interested in air pollution problems. A summary of his findings will be included in his talk.

"Smog Is Our Problem" is the title of this week's Friday Evening Demonstration Lecture to be given at 7:30 and 8:45 p.m. in room 201 Norman Bridge Hall of Physics on the Caltech campus.

The demonstration lectures are open to the public. The lecture on smog is usually so well attended that it is necessary to be at the hall early in order to get seats, and students are advised to do so.

### Princeton dean will interview students

Dr. Hugh Stott Taylor, Dean of the Graduate School of Princeton University and former head of the Department of Chemistry, will be available for consultation Saturday, October 29, through Tuesday, November 1, on matters relating to graduate work at Princeton, fellowship awards, assistantships and other related subjects.

Students interested in making an appointment with Dean Taylor should consult Dean Eaton's office.

### Tech becomes affiliated with National Student Ass'n

The ASCIT Board of Directors last Monday voted for affiliation with the United States National Students Association on behalf of the student body. The NSA, which ASCIT will join on a one year trial basis, is a confederation of student governments of more than 500 schools throughout the country which serves to voice the opinions and sentiments of American students.

By this action the Caltech student body will have the advantages of the national and regional organization and programs which include congresses of student government representatives as well as a permanent staff at the national headquarters in Philadelphia. Contact with current student opinion is maintained by monthly publications of the organization and special reports of the national officers, in addition to the personal contacts available at the student congresses.

Internationally, NSA actively cooperates with student unions of other nations in the promotion of better international relations and understanding. As a part of this program NSA organizes low cost student foreign tours for students at NSA schools which are planned in conjunction with student groups in the countries visited.

The ASCIT Publicity Manager will temporarily assume re-

### Houses slate four weekend events

The first social event for the coming weekend will be a Ricketts open house Friday evening, October 28. On Saturday night, Fleming and Dabney will cooperate for a barn dance.

There will also be a bowling party by Ricketts and a Halloween party by Blacker the evening of Saturday, October 29. Blacker's Halloween party will feature swimming in the Alumni Pool and a hamburger fry at Blacker house.

### Five houses start decorating; dance to be held November 5

by Jim Wilkinson

THE social event of the fall, the Interhouse Dance, promises again to live up to its reputation for the extraordinary. The date is November 5, and among the many fantastic things to be seen will be pink clouds, a giant squid, medieval knights, and even a Buddhist temple. This dance has more man-hours put into it than any five courses and the results are always

amazing; most freshmen are still sure that the upperclassmen have been guilty of gross exaggeration, which is actually impossible when describing the interhouse.

### Debate squad rates honors at San Diego

The Caltech debate squad, under the direction of Dwight Thomas, won top honors at the San Diego Individual Events Tournament last Friday and Saturday. Tech sent eight men and received a total of seven certificates of excellence and superior.

Outstanding performances were given by Ken Sholtz in Lower Division and Ray Orbach in Upper Division. Sholtz won a degree of Superior in Extempore speaking, the only degree of superior given to the squad. Ray took two certificates of excellence, one in Impromptu and one in Extempore speaking. Also receiving degrees of excellence were Mike Bleicher in Upper Division Extempore Speaking, Don Meyer in Upper Division Oratory, Myron Black in Upper Division Extempore, and Tom Morton in Lower Division Impromptu Speaking. John Lango and John Velman also entered but failed to receive a certificate.

At present, the squad is in preparation for the LACC Invitation Debate Tournament on November 4 and 5. It is at this tournament that the decisions will be made as to who will attend the Western Speech Association Tournament at Seattle.

### Marcelino Garcia, student house kitchen worker dies

by Russ Houter

Seven days ago Marcelino Garcia, 57, veteran of three years in Student House kitchens, died of a stroke and a brain tumor. Stricken by coronary thrombosis in the Help's Quarters four weeks ago today, he was rushed to the hospital where recovery seemed possible till he complained of more pains in his head. An operation on October fourth confirmed suspicion of the brain tumor. He died at one a.m. last Thursday morning.

Marcelino led a rich and interesting life. He was born on Luzon, largest of the Philippine Islands, about four hundred miles from Manila April 16, 1898. He came to this country around 1920 with a Baptist missionary who converted him to fundamental Protestantism. About half of the "boys" have made some switch from Catholicism since immigration. Garcia was naturalized in 1936. He married into a Negro family of Jehovah's Witnesses to complete his

switch from a religion of form to a religion of feeling. Since he came to the Houses three years ago he earned the title Brother Garcia among the guys in the kitchen, for his constant Bible reading. His library was three Bibles. During the racing season he found kicks other than horse playing. His time off this summer was spent at church and revival meetings, according to Frank De Vera, head chef.

He was a tiny fellow, almost a walking skeleton, poking his gaunt head through the neck of a too-big waiter's jacket. Yet, according to Mrs. Lang, ". . . he always did more than he got paid for." Since the Game Room has been open he has cleaned it at the crack of dawn, along with his regular duties in the downstairs kitchen. There he washed kettles for Mrs. Olson, the baker, and ". . . worked all the time, no tell him what to do . . . a pretty good guy . . ." in the words of the head chef.

In the future the Monday and Thursday clubs both will have Dr. Richard Feynman speak to them on Unsolved Problems of Physics the week of October 31.

The meetings held during the week of November 7, will see the election of officers and a discussion of the future program which will be planned and arranged by the frosh. The freshmen arranged programs will occur on the weeks of November 14, and November 21. Dr. Fred Lindvall will conclude the fall series with a talk on Engineering Science.

The lunch club gathers at the training table in lower Blacker at 12:00 to eat. The cost of eating is ten cents. Those only interested in the talk should arrive at 12:25.

### Bennent to talk at Y lunch club

On Thursday, October 27, at 12:00 the YMCA Frosh Lunch Club will feature Roger Bennent of the Caltech Jet Propulsion Laboratory.

Mr. Bennent, who is an expert on wind tunnels, will speak on the subject of Supersonic Aerodynamics.

The frosh lunch club program consists of two separate clubs, one meeting on Monday the other on Thursday. Each club has about thirty members with a different speaker for each every week.

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## Paul Hoffman

As a background to Paul Hoffman's forthcoming visit to campus, this concluding half of a biographical sketch describes Hoffman's public life in recent years. Along with his work as director of ECA, as outlined last week, Hoffman has continually held important public posts. One of the first of these was his vital wartime position in charge of the postwar reconversion program.

In 1942, while president of Studebaker Corporation, Hoffman was appointed chairman of the Committee for Economic Development, which was organized to maintain full employment in the postwar reconversion process. After the war, the country faced a potential recession with the end of the billions of defense expenditures and the flood of GI's returning to the labor force.

For three years before VJ Day, Hoffman's CED laid careful plans for reconversion. Hoffman organized a group of the nation's top economists as the CED Research Division. They dealt with problems of postwar tax reforms and the release of wartime economic controls. Meanwhile, the Field Division, composed of businessmen, went out to help some 3000 communities plan for local reconversion. They encouraged large industries to plan ahead for expanded civilian production. The relatively smooth conversion to civilian economy after the war testifies to the foresight of the CED program.

### Political Philosophy

Hoffman has maintained a lifelong Republican affiliation even while working under Democratic administrations. He has said that an economic aid program, whether for postwar reconversion or for European recovery, should not consist of welfare handouts, but should encourage business to do as much as possible for itself. His views on the United States economy were summed up before the International Chamber of Commerce in Portugal. "America's socially conscious capitalism," he said, "has proven to be the best system; it produces wealth abundantly and distributes it most fairly."

### Marshall Plan supervision

After the CED project, Hoffman was enlisted to serve on Averell Harriman's committee to investigate the economic needs of Europe. When the Marshall Plan ultimately evolved from this group's findings, Hoffman assumed the ECA chairmanship, while Harriman became supervisor of the European representatives. The success of ECA in bolstering the European economy is indicative of Hoffman's administrative skill. His great talent is in recruiting and directing men of the highest calibre.

In 1951, after his work with ECA, Hoffman wrote a book, "Peace Can Be Won," outlining a comprehensive policy for the United States. As the "reluctant leader in the free world," the United States must wage a peace campaign on all fronts; economic stability

through free trade and foreign aid, military strength through efficient mutual defense, imaginative diplomacy for world leadership, and an aggressive information program to sell democracy to the world. Hoffman predicted at that time that a strong free world would eventually force Russia into a policy of more peaceful co-existence. In July of this year, in an article in *Life* magazine, he told how the current foreign policy, in part adopted from these recommendations, has been successful in this goal.

### Leader in philanthropy

In the fall of 1951 Hoffman left the government to direct the Ford Foundation, which became America's largest philanthropic organization. The Foundation set forth five goals: 1) world peace, 2) democracy, 3) economic well-being, 4) better education, and 5) greater knowledge of human behavior. To attack these Hoffman had resources of nearly a half billion dollars, and the assistance of such keen minds as that of Robert M. Hutchins. In its brief history, the Foundation has made an undisputed impact on education, culture, and social science. Few men have Hoffman's imagination, breadth of experience, and depth of intellect to handle this program.

### Back to Studebaker

Hoffman returned to Studebaker Corporation as chairman of the Board of Trustees in 1953. He helped direct the Studebaker-Packard merger when two independents combined to meet competition. Recently, he has been highly respected for a number of articles in leading magazines. He has discussed such diverse topics as government spending, the hysteria over security, the business climate, and United States foreign policy.

In brief, then, this is the career of Paul G. Hoffman, successful businessman and eminent public servant. He truly is one of the "Leaders of America."

## California Tech

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Entered as second-class matter November 22, 1947, at the Post Office in Pasadena, California, under the Act of March 3, 1879.

## Secretary's Report

Membership in the National Students' Association was the most significant outcome of this week's Board of Directors meeting. A complete story on the purpose of membership in NSA is on page one.

The ASCIT publications darkroom in the student houses is to be remodeled and reequipped. A new enlarger, new safelights, trays, and other essential equipment will be provided by ASCIT. It is expected that student house (Institute) funds will be used for the permanent changes, including a new sink and new cupboards.

Upon completion, the darkroom will be open to any student for a dollar a term fee plus a dollar key deposit. Members of the publications photography staffs are entitled to free use of the facilities.

A football queen and one of her two princesses have been chosen and will be announced soon. The royal court will reign during the Occidental game November 12. Before the game, the student house cooks will serve a picnic supper at Brookside Park, which is adjacent to the Rose Bowl. The Park has excellent facilities and is available free of charge.

The collection for the cost of the festivities after the Cal Poly game has reached (as of Monday) one-half the total expenses. Participants and other interested students are being asked to contribute, with ASCIT furnishing the balance of the funds. The bill from the City of Pasadena was very generously low. The major expense will be the bail fees for the three arrested men, who are due for trial this week.

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# Campus Brewins

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## New sow eyes

Steven Mager, well known resident of Pig Alle, distinguished himself by the suave handling of his female companion at the Fleming off-campus party. She started off by asking for ginger ale, but by the end of the evening shortened it to gin (plus tonic).

## Toll tools curl Kirk

The Darb birddogs had a field day last Wednesday when the house enjoyed a waiter exchange with Toll Hall. While the local

clowns were each trying to outdo the nearest competitor it was noticed that the two masters, Kirk and Plambeck, were engaged in bitter conflict over one fair damsel. While Kirk was preoccupied with picking up old dirty aprons, Tom just picked up. Which just goes to show, when you reach for an apron be sure to get the whole thing.

## To the big city

Long has Lansing sung the praises of San Francisco into

# Cool Corner

by Frank Kofsky

**Shelly Manne and His Men**, a Contemporary long playing recording (C 2503) featuring: Bob Enevoldsen, valve trombone; Art Salt or Bud Shank, alto sax; Bob Cooper, tenor sax; Jim Giuffre, baritone sax; Marty Patch, piano; Curtis Counce or Joe Mondragon, bass; Shelly Manne, drums.

(Ed. Note: Because of the forthcoming assembly on November 10, featuring **Shelly Manne and His Men**, we have requested that Mr. Kofsky write his column for this week around Mr. Manne and his ensemble.)



Shelly Manne

In jazz forms of a more traditional than modern nature, the drums, as well as the piano and bass usually, are constrained to remain in the "rhythm" section, i.e., their main function is metronomic and their secondary one is to supply basic harmonies to the solo artist. However, compositions written in a contrapuntal style, as most contemporary jazz compositions are, free the drums from this restraint,

and allow the drummer to use such various musical devices as imitation, inverting time, etc.

While these refinements add variety to the music, hence creating greater interest for the listener, it must be remembered that they also require increased technical skills in the men who play them.

For five straight years, Shelly Manne has won the **Down Beat** poll for drummers, and in addition, he has won the last **Metro-nome** poll. These two hard-headed magazines, however, are more concerned with technical facility than with advanced musical theory, and while Mr. Manne's showings indicate he is proficient, they say nothing about his own ideas concerning jazz.

Perhaps the main significance of this album is that it does reveal the musical point of view of one of the leading figures in modern jazz. If there is any truth in the hypothesis of "guilt by association," then Mr. Manne is guilty of playing some of the most melodic and refreshing modern music yet heard. To begin with, the instrumentation

(Continued on Page 6)

## Philandering Phurumoto

the ears of unwilling rowdy listeners. Its women, whisky, and wind were all said to be of superior sort. Last weekend the great tour to prove daddy John right or wrong was done. Bergeman, Slanger, Tansey and the same Lansing set out with hopes high but arrived to find only two dates awaiting the four of them. Comments on return ranged from, "Well, no." and "I got only 200 pages of **The Nature of the Chemical Bond** read in the car." to "What a ball. (sigh.)"

## Never take me back alive

Seen cavorting at Frisco's "hungry i", a night place of some renown was one R. A. Johnson and a woman from inside the gates of San Quentin. (Daddy, it seems, is the prison doctor.) Questioned on his reasons for not leading the cheers of the fans at L.B. he was heard to mumble, "Rye, rye, rye."

## Writer wrong

Ex-Beaked (and apparently extongued) Gordon Reiter, still feverish from a recent attack of dipsomania, was observed downing Scripps' martinis, one after another, and boasting loudly of his ability to cope their numbers. The poor dilettante lauded the girl's cleverness for masking the foul taste of gin with ginger ale (which his subtle

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taste buds could barely discern). She didn't lie when she recognized that the nectar was at least 5:1.

## Blind cupid

Dave "Crock Around the Clock" Gregorich didn't even last till 9 o'clock with his bird. It

seems that the barnstorming dog, John (the young man with the June Christy sax) Kelley managed to interpose his rook into the ranks and file out the door. The Beak's only (and sympathetic) advice is: If you don't succeed at first, cry, cry again.



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# Soccer team bounced by Cal Poly, 8-2

The soccer teams both met with defeat last week, the Varsity losing 8-2 to Cal Poly, and the J.V.'s, 8-1 to UCLA. The long drive up to Cal Poly at San Luis Obispo didn't help the Varsity chances, but the real factors in our loss were the Ortez brothers of the Cal Poly team.

These men have played in the national championships, and are regulars on the Mexico City professional team. With one in the forward line and the other in the backfield, the two men virtually controlled the field. Against the terrific Poly offense, our defensive play was a little weak.

The game was refereed by one of the Poly players, and as a result, was played in a fairly open manner. Larry Tenn opened the Beaver scoring by firing a goal through the Cal Poly defenders in the second quarter. Serdengecti slipped another goal through in the third quarter.

Yesterday, the Varsity played UCLA, always a strong team, and this Saturday, they meet

Southern California. Look for an upset here, because Poly is far and away the best in the league, and the team didn't do too poorly against them.

The Frosh were outplayed in losing to UCLA, by a considerable margin. After being delayed an hour while waiting for the UCLA team to appear in full, the Tech men had lost some of their normally high spirit, and generally gave the ball away.

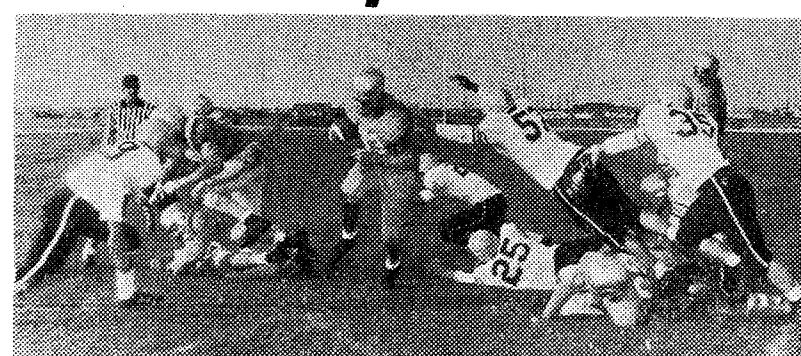
During most of the first half UCLA controlled the center of the field, and followed their scoring attempts closely into the goal. However, late in the half, Tech snapped out of it and scored on some skillful team-play among the halves and forward line. The first score came on a center pass by Nelson, which was booted in by Lindson. Another scoring attempt was held up when time ran out. The second half went little better for Tech, a lack of aggressiveness upsetting the whole team.

## Harriers dump Nazarene, meet Redlands next

Caltech's varsity harriers got the season off to a running start last Friday as they whipped Pasadena Nazarene, 23-32. Although still far from being in top condition, the Beavers bunched four men behind Nazarene's Bill Coulter, who won the 1.7 mile race with a fine 8:35 time. Don Lewis took second place for Tech, and Fred Witteman, Dan Wulff, and Tom Moore all came in within the next three seconds. Reid Saunders finished ninth to round out the Tech team.

The varsity and frosh teams travel to Redlands tomorrow for the first SCIAC meet, and what may prove to be the most important one. The varsity showed well against Nazarene, but Redlands has a much improved squad over last year's. A supreme effort for Tech may pull out a victory, but Lewis, Witteman, et al, will really have to run to do it. Tech at present does not have a frosh team, so will probably have to forfeit to the Bullpups.

## Bever pigskin crew wrecked by L. B. State



Krehbiel punctures 49er goal for only Beaver tally - photo by D. Paull

Caltech's listless football team managed to lose another game to an inferior team Saturday, letting the Long Beach State 49er's go through and around them for a 32-6 win.

The Beavers, playing in traditional Caltech style, let Long Beach runners slide off time while Tech's offensive attack left a lot to be desired, with the only consistent gains coming on Phil Conley's passing. End Bill Moyer was the chief receiver, making three magnificent flat-on-the-back catches that left the crowd gasping with amazement.

State's first score came early in the first quarter, with half-back Harlow Richardson circling

end for 65 yards, leaving a trail of Caltech would-be tacklers behind him. In the second period Gene Gillies took a nine yard pass for a TD to give the 49er's a 13-0 halftime bulge.

Richardson scored again early in the third quarter on a four yard plunge, and Ivan Seaton made State's fourth touchdown on a one yard run after breaking away for 53 yards to set up the score.

Gasparian made State's fifth touchdown late in the game on a 26 yard pass play from QB John Pembroke, and Tech finally broke into the scoring column by marching 67 yards to score, with Ed Krehbiel going over from the one foot line.

Tech's main defensive cog was Phil Conley, who made tackles all over the field, intercepted a State pass, and in general held the Beaver defense together at crucial spots. Joe Lingerfelt, Bill Moyer, and John Myers were other defensive standouts.

### Statistics

	Caltech	State
First downs .....	12	15
Net yds. rushing.....	88	343
Net yds. passing.....	91	95
Total net yds.....	179	438
Passes att. ....	21	11
Passes comp. ....	9	7
Punts, ave. ydg.....	35.0	30.5
Yds. penalized .....	40	70
Long Beach State 7	6 13	6-32
Caltech .....	0 0 0	6-6

### Basketball practice

Coach Carl Shy announced that varsity basketball practice will start Tuesday, November 1. The first competition will be met in the Redlands Tournament early in December.

Frosh basketball practice, conducted by Coach Ed Priesler will not start until Monday, November 21.

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# Polo team wins fifth in a row by drubbing Pomona

Last week the water polo team stretched their win streak to five games to remain unbeaten. They are now the only undefeated polo team in Southern California.

Friday's game against Pomona proved to be a show of Tech's powerful game against a usually tough Sagehen team. The Beavers jummed to a 4-0 lead before the Pomona forward line even got possession of the ball, much less took a shot. The first quarter ended with the score 6-1 and Pomona never came close the rest of the game.

Jim Ball lead the Tech scoring with a nine point splurge. Taylor, Martin, Rees, and Davis also scored to round out the offensive punch. Goalie Fritz Trapnell was on the injured list for the game, but Don Wiberg filled the goal very well.

Last Wednesday the team had the closest call they have had yet when they squeezed out a narrow victory over LACC, 7-5. The visitors' had a 5-3 edge going into the last quarter when Bill Davis dumped in two quickies to tie it up followed by Jim Ball's pair of goals for the winning margin.

The closeness of the score in this game was more a result of sloppy Tech play rather than excellence of the opposition's. Only in the last quarter did the home

team play at all well.

The frosh team did not have the good fortune of the varsity last week. Friday at Pomona they were snowed under by an 18-2 score. Milder and Blandford each scored once for the Beaver babes. White dumped in seven goals for the victors.

Wednesday the frosh played the LACC reserves a half game and were bounced 8-0. The frosh only took six shots but couldn't get one through the goalie.

Yesterday the varsity met the always powerful Fullerton JC in the home tank. Fullerton always manages to field one of the best teams in the west. Tomorrow they play what is probably the most important game of the year against Occidental in the Oxy pool. This should really be a rough and tumble game.

In the final race Fleming's Dave Yount took first.

## Interhouse sports

Dabney House won undisputed possession of first place in Interhouse Softball by beating Blacker 8-4. They finished with a perfect record of four won and zero lost.

Fleming won its final game from Ricketts by a score of 7-3 behind a sharp hitting attack. This win coupled with Blacker's defeat tied the two houses for second place with two won and two lost records.

Throop Club gained a tie with Ricketts for fourth place by upending them 6-5 on a two run homer by Dubb in the final inning. This was their only win against three losses.

In Interhouse Cross Country the two mile race was a repeat of the first race with Dan Wulff of Ricketts winning the individual title and Blacker winning the overall honors.

In the final race Fleming's Dave Yount took first.

## Sportingly yours,

by Bill Davis

It looks like the football team has quit playing football early this year. This is the appearance of things at the present time at least. Oh well, who wants to win anyway.

Long Beach State looks like a coming powerhouse among Southland colleges. In their first year of football they are fielding a respectable team. With a school that size it won't be long before they really field a powerhouse. Meanwhile back at the ranch.

Bill Mouer looks real good at end on offense, but his lack of weight hampers him somewhat. He certainly made some nice catches last week.

Conley's passing looked somewhat better last week also. Maybe he is getting his arm back. The running game has certainly deteriorated though—maybe because you have to be in shape to run.

The game this week isn't going to be pleasant. Whittier's Poets were slated for a low position in the conference this year, but have been quite a pleasant surprise for their rooters. At present they are the only undefeated football team in Southern California and they don't figure to break their winning streak against Tech this week. At the rate things are going if Whittier doesn't wipe the Beaver team by more than five touchdowns it will be a major moral victory. Maybe we can salvage something for the Oxy game.

The soccer team ran into more than they could handle last Saturday at San Luis Obispo. The two powerhouse players from Mexico were more than the Beavers had bargained for. Coach Huttenback says, "This was a victory of matter over mind." The team will be an underdog in both games this week against USC and UCLA but could pull an upset in either game.

The water polo team's hopes for an undefeated year took a serious jolt this week with the knowledge that goalie Fritz Trapnell will be out for the remainder of the season with a bad knee. Don Wiberg will fill this position now.

## Oxy trounces Frosh eleven

Last Saturday was another tough battle for the Frosh footballers, as Occidental handed them a 40 to 7 defeat. The outlook at the start of the game was highly favorable when Oxy fumbled the opening kickoff, allowing Tech to recover on the opponents' thirty yard line. The joy was short lived, however, when Tech had to kick over for being offside.

In spite of this, Tech held Oxy on downs, and recovered a fumble on the last down. The next break came to Oxy on the first Tech play, when they retaliated by recovering a loose ball in the Tech backfield. For nearly the rest of the first quarter, play see-sawed back and forth, with Techmen showing the best blocking yet seen in the Frosh team.

Late in the quarter, an Oxy end run connected for their first score. Two more in the second quarter brought the total up to 21 for Oxy, none for Tech. At this point, the formerly slow-moving Tech offense caught fire, and marched fifty yards in a half-dozen plays to shove over our only score. The play which finished the drive and netted the score was a twenty yard run from a pitchout to Fred Newman. Bob Ingram passed to Bob Evanhoe for the extra point, making it 21-7 at the half.

In the second half, the previous experience of the entire Oxy squad showed well; their tackles consistently led to Tech fumbles. As a result, Tech didn't have possession of the ball for very long. Mike Engleberg got off several nice passes, but the Tech passing attack was usually nullified by Oxy interceptions. Through the second half, Stevens, Pitzer, Hughes, Conover, and Alcorn played well in the line. Oxy led in first downs, 16-6. This week the Frosh meet Whittier here at home.

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**WHAT'S THIS?** For solution, see paragraph below.

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**INTERHOUSE**

(Continued from page 1)

"Twenty Thousand Leagues Under the Sea" is Throop's theme some of the members recently journeyed to Disneyland and picked up some ideas. The main feature will be a moving giant squid wound around the Nauti-

lis. Various undersea articles, such as wrecked boats, a dark grotto, and a huge sea cliff will complete the decorations.

Plans in Fleming center around Medieval Knight Errants with all the trappings of romantic castles. Carroll Wax and his band will play.

Dabney will disappear in "Dreamland" under fluffy, pastel clouds. The setting will be highlighted by a representation of "Dancing Waters," which is a collection of fountains spraying colored water in intriguing patterns. Caltech's own Tony Iorillo and his combo will make music.

**COOL CORNER**

(Continued from page 1)

alone, predominantly reed, is enough to differentiate this set.

Of the men, other than Mr. Manne, playing in this album, little need be said. All are familiar figures in the West Coast

jazz scene, and all perform consistently at their best. Of the arrangements being played, most are written in an up-to-date, i.e., line and contrapuntal style, and it is worth nothing that one of the compositions is an atonal fugue, the first to be played in modern jazz.

# Don Nielsen

That old black magic paved the way for sixty million cars

**E**VER notice how the success of one product will often create a demand for another?

"Back around the turn of the century, for instance, Union Oil couldn't sell much gasoline because there were only 4100 or so cars in the country and no good roads. We did most of our business in kerosene and fuel oils.

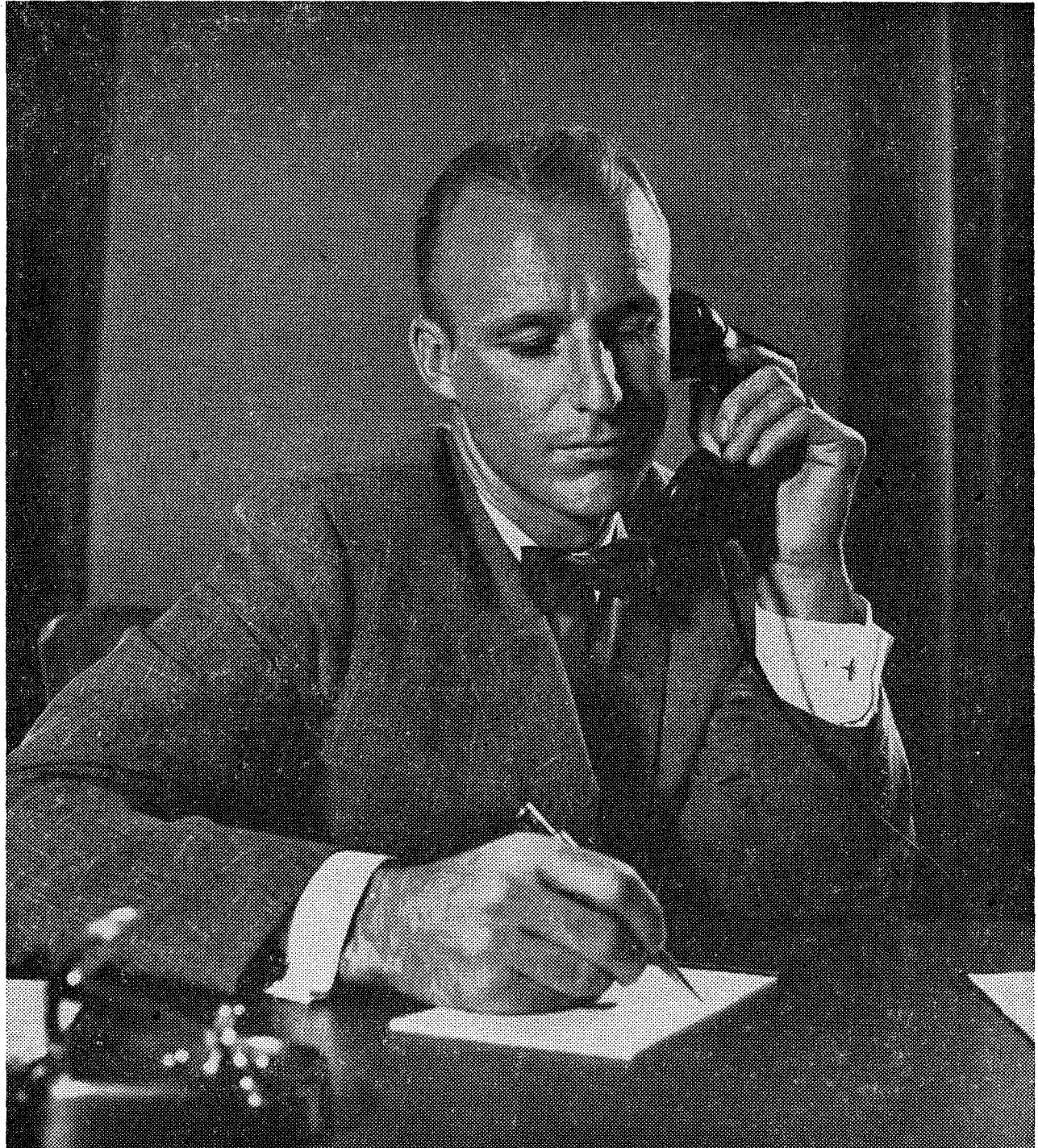
"It soon became apparent that if we were to sell more gasoline there'd have to be more and safer roads.



"Fortunately, Union has always had a large supply of crude oils ideal for making asphalt. So we started producing a simple product you could pour right on the road.

"That old black magic took the motorist out of the mud and paved the way for 60,000,000 cars.

"Today, we're one of the largest producers of asphalt on the West Coast. We maintain plants and storage facilities in seven cities and make over eighty different grades.



"Today, too, you enjoy thousands of miles of good roads. And asphalt covers 86% of them.

"Gasoline? We're selling more of that now than anything else!"

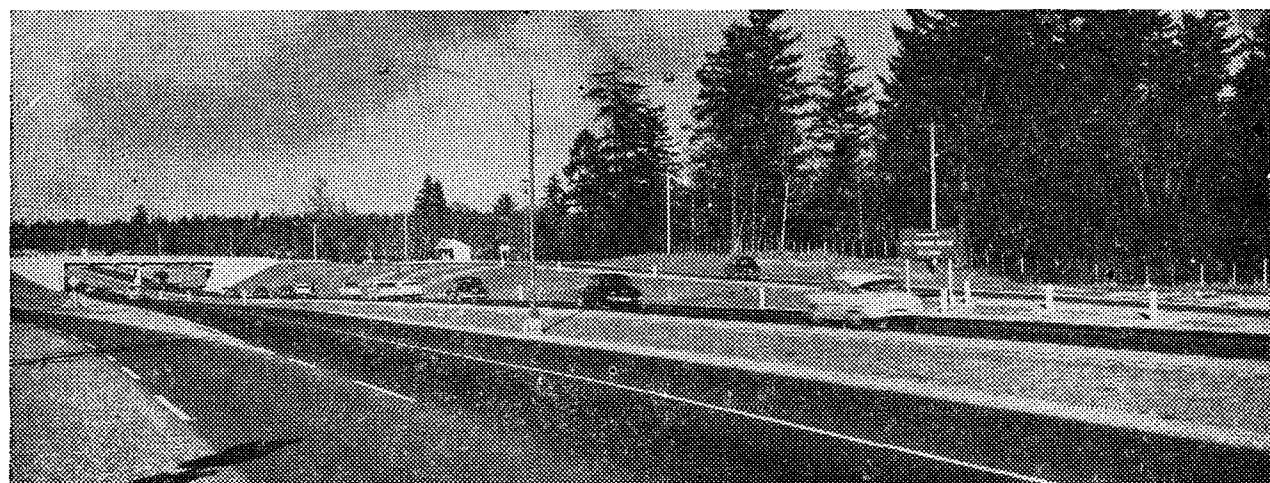
As Don Nielsen—Mr. Asphalt in our home office—points out, one successful product does help another.

A single carload of asphalt transformed into a highway now creates a demand for at least one thousand gallons of gasoline a year.

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