

The California Tech

California Institute of Technology

Volume LX.

Pasadena, California, Thursday, November 20, 1958

Number 9



Carl Hamilton and Carl Rovainen, first place winners in lower division at Fresno State College last weekend, add the trophy to the debate club collection.

Hamilton, Rovainen Win Fresno Debate Tourney

Carl Rovainen and Carl Hamilton, representing Caltech at the Fresno State College debate tournament last Friday and Saturday, November 14 and 15, won first place in the Junior Men's Division in competition with fifty teams from thirty-three colleges in five states.

The tournament consisted of six preliminary rounds, after which the top eight teams were chosen as quarter-finalists. Rovainen and Hamilton defeated teams from Stanford, Palomar College, and the University of Santa Clara in the final rounds. They were awarded a first place trophy and individual medals for their achievement.

Neutra Talks Tonight On Architecture

Vienna-born architect Richard Neutra will speak tonight at 7:30 in Dabney Lounge as part of his YMCA-sponsored visit.

Neutra is a well-known American designer, specializing in homes and city planning. He is also the author of several books dealing with such subjects as the relationship between Pavlov's theory concerning conditioned reflexes and modern architecture.

Before his lecture, Neutra will meet with a group of students in the "Y" lounge to informally discuss various aspects of modern architecture, along with others of his personal ideas.

Volley Brawl

Grudge Match Planned

New Loyalties!
New Hopes!
New Aspirations!
New Hatreds!

New undergraduate mathematicians have announced to the world their intentions of

THIS WEEK

Fri., Nov. 21—Friday Evening Lecture, "How to Create a More Effective Foreign Service," Dr. Rodman W. Paul, Professor of History, 201 Bridge, 7:30 p.m.

Sat., Nov. 22—"Next Hundred Years" TV series, "They'll Remember Grandma", Dr. J. Kent Clark, Professor of English, KRCA, Ch. 4, 6:00 p.m.

trouncing the physicists in a soon-to-be-held volleyball match (boys' rules).

Al Hales, math option athletic manager, is maintaining tight-lipped silence on his team's progress. All he'll say is "Spike, spike, spike."

The match will be held Thursday, Dec. 4, 11 a.m., at the gym. All sophomores, juniors, and seniors in the math or physics options are eligible.

Physicists who think they've got the stuff to make the team should see John Price, Ricketts 17.

Publicity directors of other options are invited to enter their teams in further competition.

Psychologist Maslow Visits Tech Campus December 3-5

Leaders of America Program Brings Eminent Professor As First Guest

Noted psychologist Dr. Abraham Maslow will be the first campus visitor in the YMCA-sponsored Leaders of America program, December 3-5.

Maslow is Professor of Psychology at Brandeis University and the author of several books on his specialty.

Maslow will start his campus visit on Wednesday morning, December 3, at a 10 a.m. meeting with Dr. John Weir's psychology class, according to Tom Morton, who is in charge of the project.

Maslow will then eat lunch in one of the student houses, and talk with interested students in the lounge following the meal. Wednesday afternoon, he will lead a study group of students who have been reading his books.

Wednesday evening after dinner in another house, he will deliver his opening address in Dabney Hall.

Thursday morning, Maslow will have "office hours" to talk to students individually, and then will address the grad sack lunch forum. Thursday afternoon, he will have grad students office hours.

Thursday night, the Y has invited two Los Angeles psychologists and one psychiatrist to hold a public panel discussion with Dr. Maslow following dinners in the student houses. After the panel, Dr. Maslow will hold private discussions with the other psychologists and some faculty members.

Friday morning, he will meet with the psychology class again, and eat in one of the student houses. Following office hours Friday afternoon, he will eat dinner in one of the houses, and close out his visit Friday evening with an open house in a faculty member's home.

December 1 Meet To Discuss Jobs

Dr. Donald S. Clark, Director of Placements, plans to hold a meeting Monday, December 1, to discuss placement problems and placement interview procedure with Tech students.

The discussion will be in Room 206 Dabney, starting at 7:15 p.m.

Announcements

Pre-registration Cards

All students, including freshmen, are reminded that pre-registration cards should be picked up sometime next week in Throop 119A. All cards, except those of freshmen, must have advisor's signatures.

Pshaw!

Due to the fact that Thanksgiving falls on Thursday this year, which is also the release date for the California Tech, there will be no paper next week.

No Y Films

The previously announced presentation of films by the YMCA, scheduled originally for Sunday, has been cancelled.

Lost and Found Auction

The YMCA will offer for auction all unclaimed articles in the Lost and Found next Wednesday. Students are urged to pick up any lost items before then.

Nice Pit

Junior Class Wins Mudeo For Third Straight Year

By Wallace Yerbovsky

The class of 1960 this week became the first class in Tech history to win the Mudeo three years in a row. Assistants in the precedent-shattering achievement included the Health Center, P.E. Director H. Z. Musselman, Dean of Students P. C. Eaton, and junior, soph and frosh athletic managers Bob Golden, Skip Stenbit and Dick Chang, all of whom recommended that the annual event be cancelled because of possibility of illness caused by the cold weather.

BOD To Pick Ten For MUN

More than thirty Caltech students have applied to the BOD for membership on the 1959 Model United Nations delegation. Ten delegates will be chosen this week to represent Japan at next spring's Model UN assembly at USC.

Final applicants are Bill Bauer, Pedro Bolsaitis, Doug Carmichael, Marty Carnoy, Ken Dinwidie, Al Ehrlich, Kent Frewing, Maury Genud, Lee Hood, Jerry Kasper, Hugh Keiffer, Stan Klein, Bob Koh, Sid Leibovich, Mike Milder, Cleve Moler, Tom Morton, Bob Nason, Roger Noll, Larry Nordell, Larry Rhodes, Bob Ross, Mike Rudolph, Mike Schwab, Dohn Schildkraut, Ken Scholtz, Harry Spertus, John Steelquist, Lance Taylor, Mike Thomson, Paul Widess and Don Wood and Dave Nissen.

Chamber Recital Features Sonatas

Four sonatas will be the featured works at the third chamber music recital Sunday evening at 8:15 in Dabney Lounge.

Louis Kaufman, violin, Annette Kaufman, piano, and Marjorie Call, harp, will play: "Sonatina in G-Major for Violin and Piano," by Telemann-Kaufman, "Sonata in A-Minor for Violin and Piano," by Schumann, "Sonata in D., Op. 113, for Violin and Harp," by Spohr, and "Fantasie, Op. 124, for Violin and Harp," by Saint-Saens.



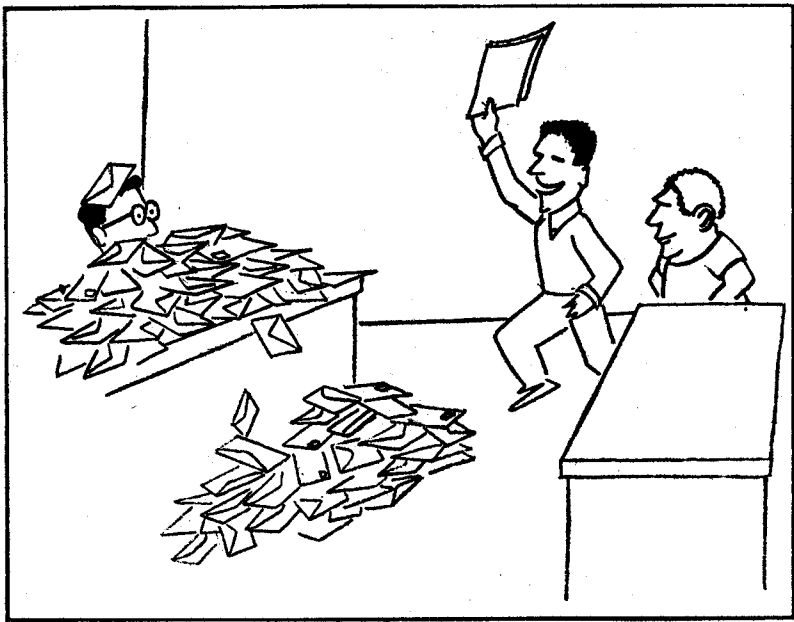
Dr. A. H. Maslow

Tech Crowns Queen



ASCIT Photos

Hilli Ivask was crowned Homecoming Queen at the Oxy game last Friday night, with attendants, going clockwise, Joan Prestin, Mary Lou Martin, Mary Lou Wright and Alansa Carr. Automobile used for ceremonies was courtesy Parkway Ford Sales, Pasadena.



Allesina
"Hey! Wait! we tell you who we wrote the article about this week!"

LETTERS TO THE EDITOR

From The Students

Editor, The California Tech:

Whether meant as humor or as acid criticism the article "Peepy Exposes BMOC" is in very bad taste. The large rise in tuition coming next year is a cause for griping and sincere concern to most students, and is probably a cause of embarrassment and soul searching among the faculty. A touchy point such as this should not be used as a source for sarcastic humor that borders so close on slander.

Admittedly most of the points brought up by Boris and Griffen are outlandishly distorted, and many of the rest are obviously false. Nevertheless the article creates a picture of student discontent, and of general distrust and antipathy toward Dr. DuBridge. This picture is not at all reflected in the feelings of the student body, most of whom understand the tuition rise, despite the difficulties it poses.

When such an article is printed in the format of a news story it implies a general statement of the students. As a member of the student body I resent the attitude implied here.

John Charles Price

From The Faculty

Editor, The California Tech:

Was the characteristically ill-disguised little satire of the Caltech President really necessary, and, if not necessary, was it justifiable? It did not seem to have either the light touch of humor or the savage, corrosive wit of a Jonathan Swift. And the real target should have been the faculty, who are the ones to benefit from the tuition rise.

It is hard for at least me to understand why staff members of the Tech should not appreciate the need for raising faculty salaries when they are no higher than what people who are now undergraduates will be making some five years hence, even without graduate training. The temporary financial strain on students is contrasted with the well-nigh permanent strain on faculty. Teaching and academic research are probably the only industry in which the machine tools are lower priced than their product. How can you justify a pusillanimous peevishness that seems deaf-mute to the reasons for a tuition increase and to the constant labor of the Institute's President in trying to make this place one whose product will be in even higher demand?

Yours truly,

James C. Davies

These are representative of comments that were received by the California Tech regarding last week's "Boris & Griffen" humor column. We want to assure our readers that the article was not intended to convey an attitude of student malcontentment or disaffection. It was not intended to convey any attitude whatsoever—the article was an attempt at humor for its own sake.

The authors of the column, who are better known as Harry Spertus and Marty Carnoy, are eager to affirm their respect and admiration for Lee A. DuBridge and for the Institute, sentiments that are shared whole-heartedly by the entire student body.

Spertus and Carnoy wanted to try out a new idea in their weekly column—a burlesque on the "expose" type of story using a well-known campus figure as the subject. They thought that if they chose a personality who was entirely above criticism, and made their assertions far-fetched enough, they could be sure that nobody would take the article seriously. We went along with that idea when we ran the column.

Many readers took the column in the spirit the authors intended, and many did not. It turned out that we had erred in our assessment of reader reaction to the article. We feel we learned one of the lessons to be learned every once in a while from trying new things.

Fineman's Shilling Scandal Sheet Exposes Scottish Education Practices

Joe Fineman '58 is The California Tech's foreign correspondent in the British Isles. He is studying physics at St. Andrews University in Scotland on a Fulbright Fellowship. Here begins the third and latest of his letters.

Scotland
31 Oct., 1958

Professor Allen's lab is in Edgecliff, a dusty converted mansion across the Scores from Sallies, with a fine view of the harbor, a fair amount of electronic equipment, a big pump groundling away in the basement with two inch vacuum plumbing to several rooms, and an impressive, room-filling homebrew helium liquifier consisting of a mass of heat exchangers circulating helium, hydrogen, and nitrogen in a tangle that defies understanding surrounded by plumbing, valves, and tanks, with a bell that rings if any one of eight different possible disasters occurs.

As soon as I arrived, of course, it immediately began developing high pressure leaks, so we have so we have so far got in only two successful runs. For now, to get used to the equipment, I am repeating one of the professor's experiments on film-flow oscillation.

The legs of an inverted U-tube are filled with helium to unequal heights; they then equalize by a siphon effect through a surface tension film, but momentum carries the system past equilibrium so it oscillates. The period of the oscillation gives evidence on the structure and thickness of the film.

The procedure is to dip the tube into a helium bath that has been pumped down to about one degree Kelvin, look at the liquid level through a travelling telescope with a gauge on it, and call the resulting numbers into a tape recorder. This is then played back against a clock, and heights and times are written down together. I then plot height against time, giving a wavy curve on which the period (usually about one-hundred seconds) can be measured. All this has to be done for several temperatures and film lengths. It takes some practice to get precise results, especially since the helium is surrounded with six layers of glass, the interstices between which are filled with vacuum and liquid nitrogen (for insulation) and water (to keep the whole thing from frosting up), and you have to read the position of a sometimes blurry meniscus to one-tenth division through all the swirling and bubbling.

Eventually I am supposed to do something new—on flow in

narrow channels; meanwhile I am also working on a Chinese copy of a device described in Physical Review that is supposed to control the temperature of the bath to one ten-thousandth of a degree. This involves a galvanometer amplifier and a little electronics, in which I am being helped by D. V. Osborne (old friend of summer "boss" Charlie Chase) who is working on vortex lines in a nearby room.

(Continued on page 8)

President's Column

by Mike Godfrey

About two weeks ago a letter was sent by me, on behalf of the Student Body, to Dr. George Beadle. I tried to express, as best I could, our congratulations on his recent award of the Nobel Prize.

I would like to present here Dr. Beadle's answer to our letter.

Dear Mike,

There's no student body in the world we'd rather have those good wishes from. They help so much to make an honor that is already grand even so much better. Thank you.

We are enjoying Oxford thoroughly. It is different in so many ways from Caltech, or any other American Universities, that is a real challenge to try to figure out how it works—and why.

Our best regards to all,

George Beadle

California Tech

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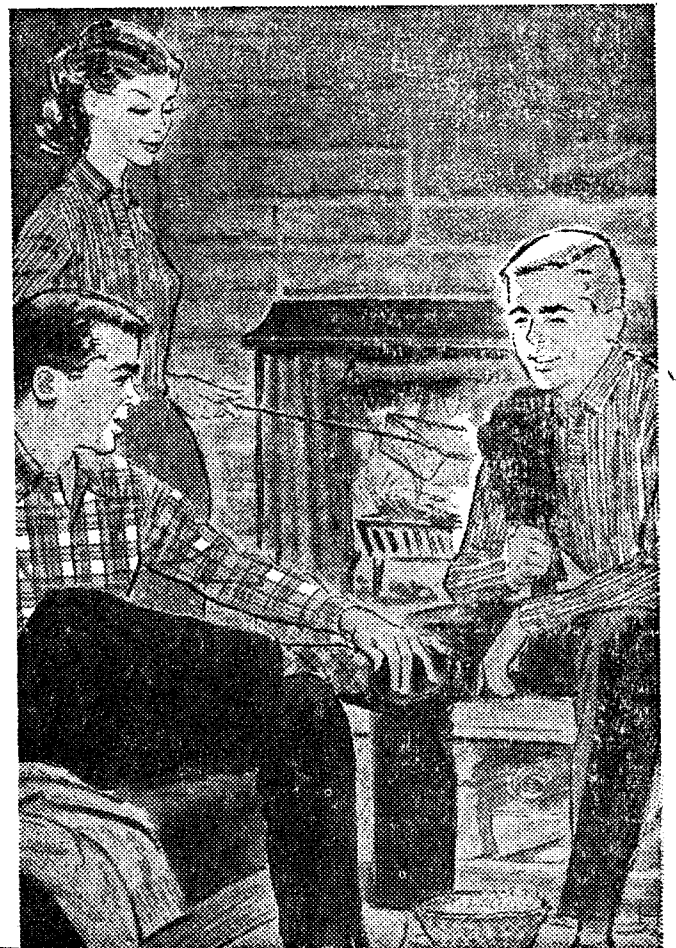
High-scorers
after the game ...
from Arrow

You'll be proud as a coach with a new star halfback when you take the wraps off this new Arrow sports wear. That's a *Twin Tartan* shirt on the man at the left—a time-saver in cotton wash and wear. Another twin idea—the pull-over knit shirts on the man at the right and his date. The sweater? A smart new crew-neck model. Knit shirt, \$5.00 up; other shirt, \$5.00 up; sweater, \$7.95 up.

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Fifth Column

By Brad Efron

With the exposes flying thick and fast lately, your old fifth columnist really feels out of it. Here I sit, king of the yellow-rag journalists, and I haven't exposed anyone in over three weeks. What will those who trust and believe in me think? Hence (to borrow a term from the mathematical journals) this week's column will be devoted entirely to character assassination. Direct all lawsuits to the "M" box in Ricketts.

GREEN SCAMPERS WITH \$16 MILLION

Sands Snuggles Synch Sec

Mrs. Toy Confesses Mobilgas Fraud

NERRIE NAILED IN DISCOBOLUS FIX

Too mild, too mild for today's sensation-hungry public. I need a scandal with oomph, something to set people muttering for days.

Pauling Elected N. A. M. Prexy

PIUS PLAYING POSSUM; RETURNED TO VATICAN BY THROOP CLUB "It Was All A Rotation Stunt"

For those who prefer their scandal more on the student level,

Jovin Claims House Bias In Butter Patty Size

GODFREY REVEALED AS GRIFFEN

Mere headlines you say? Okay, scoffers, try this one on for size:

The Great Gysindinym Hoax

(a true case history from the Feb. '58 Muckrakers' Gazette.)

I am walking down California Street, a smile on my face, a buckle on my pants, and a penny in my pocket. I am going to the candy store.

Suddenly my attention is drawn to the wild, weed-like growths that cover the earth between Bridge and Arms. As usual, there is a gardener there, snipping desperately with a hand shears and barely holding his own. I have passed this same weed-patch and same gardener one hundred times before, but now a consuming curiosity overcomes me.

"Good gardener," I say, "what are you doing?"

"Trimmin' the gysindinym, boy." (snip snip snip snip)

"Gysindinym, you say? Look more like weeds to me."

Don't show your ignorance, boy. (snip, snip) Old man Nelson would turn over in his grave if he heard you say that."

"Old man Nelson?"

"Yeh, that's his grave right over there." (he pokes his shears at what I'd assumed was a compost pile)

"These here gysindinym were his whole life. (snip snip snip). I'll never forget his last words to me. 'Don't let down the class of '26, Dan. Keep the gysindinym in order.' We buried him where he fell." (stops snipping for a moment)

"Class of '26?"

"Yeh, they're the ones who

(Continued on page 8)

Jazz Beat

by Lloyd Kamins



Building upon the rather brief history of jazz presented last week, I will now discuss the various trends and schools of modern jazz. First of all, I have somewhat arbitrarily classified the entire jazz scene into a number of groups, including the types designated as hard-bop, West Coast, way out, and fringe jazz. This oversimplifies matters, but it seems to be convenient.

Bird's Influence

Charlie Parker, besides furnishing the enervation and stimulating force to the bop movement, also exerted a profound influence on many musicians. He was the master. He almost single-handedly invented the new style of blowing and in addition was the most facile performer.

Sax men have aped the phrases of Bird in varying degrees for almost two decades now. Some have blatantly copied his work. Others have used it as a basis upon which to build a vocabulary with which to speak. The musicians following in the ways of Bird, using his conception and to some extent his repertoire constitute the hard-bop school of jazz.

The hard-bop men are often termed mainline as they have continued along the way of the stronger forces in jazz. The trumpeters are commonly derived from Dizzy Gillespie, the pianists developing the work of Bud Powell. The songs that typify the school are of various distinct types: funky rhythmic bluesy swingers, fast furious angular themes, and low, throaty ballads.

As a list of the foremost exponents of the hard-bop school, one could name Mobley, Rollins, Coltrane and Stitt on tenor, Woods, McLean, and Adderly on alto, Byrd, Farmer, and Gillespie on trumpet, and Silver on piano.

West Coast Stylings

The West Coast group is more directly derived from the tenor work of Lester Young, one of the pioneers of modern jazz, and Stan Getz, a student of Prez who far outblew his teacher. This is the group that rates the title of cool jazz, as emotion, which is so great a part of hard-bop, is not openly expressed.

In this school, the imitators are far more blatant, and notably less proficient. The result is that the bulk of the West Coast produce is composed of meaningless, non-melodic, non-swinging phrases consisting of arpeggios and stolen bits of melody, played against a beat lacking in drive and imagination, at tempos just fast enough to conceal the emptiness of the lines. I detect a note of bias.

There is some good in West Coast jazz, but unfortunately it is generally obscured by the incompetence of many of its exponents, who are usually almost indistinguishable in sound. The good soloists, Pepper, Mulligan, Perkins, Condoli, Levy, and the like, usually have a difficult time finding a band to play with. The essential contribution of the school is a wispy, dreamy sound, very nice for ballads. Unfortunately, everyone possesses this sound, the songs on which it is used possesses little harmonic inventivity, and the ideas blown are shallow and repetitious.

Some musicians, such as Monk, Mingus, and the like, are concerned with expanding the range of expression of jazz. They are the modern day pioneers, recognizing no restrictions upon their styles.

On the fringe of the jazz scene are a number of good musicians, possessing distinctive styles and much popular appeal but not really playing jazz. Cal Tjader, an extremely enjoyable performer, stays within the Afro-Cuban idiom, and many pleasant cocktail pianists rake in the records with their nice quiet work, but they never really swing.

Brubeck, the most controversial of the lot, displays his harmonic, melodic, and rhythmical inventiveness against a jazz background. I like Dave, but it is certainly noticeable that he and his group aren't playing the same kind of music. Brubeck, like Gershwin, is in a category of his own.

Win Her With Good Taste

Dapper Dan Devises Dream Digs

by Boris & Griffen

"I think Griffen is a conceited pseudo-humorist who likes to make cracks at everyone in sight. Why don't you get someone else?"—Boris

Perhaps you have wondered at times how you could convert your frosh double into the optimum pad.



Who can deny the great influence of a properly designed room on both your date and your chances? Who can deny the negative effect of opening the door of your room for your date, only to observe your roommate in his underwear, brushing his teeth? Let us observe, for purposes of orientation, a typical Techman's progress on Saturday night after room modification.

Your date has undoubtedly heard innumerable stories of the slovenly pits in which the trolls of Caltech live: unmade beds, books and slide rules covering the desks, and Bugs Bunny punch cans strewn on the dirty rug. Imagine the look on her face as you usher her into your room and she sees that it is immaculate.

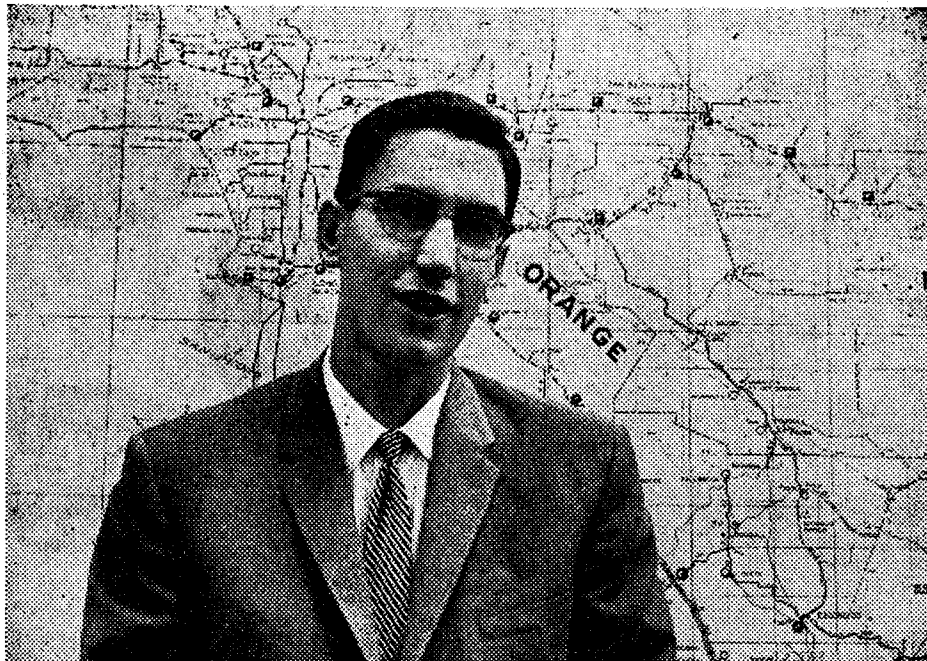


She glances around the room and notices the Picasso originals and Klee sketches (on the ceiling, of course) and the little altar with thin wisps of incense rising past the autographed portrait of Michael Godfrey. She notices, too, the single, well-made bed (your roommate's is down the alley) with the clean sheet turned back and the pajamas neatly folded on top.

If she is very perceptive, she may notice that as you closed the door, there was a slight click. This is caused by two

(Continued on page 8)

A Campus-to-Career Case History



Telephone engineer Stu Black—and the booming Southern California region he serves.

"The telephone company helps you blueprint your future"

Stuart C. Black had job offers from seven companies before he got his B.S. degree in Engineering from U.C.L.A. in 1954. His choice: the Pacific Telephone and Telegraph Company in Los Angeles.

"They told me exactly what to expect," he says. "Every phase of my training, covering two years of rotational job assignments, was outlined. They made it easy for me to see where I could go."

Since Stu was hired, he's climbed poles, installed telephones and worked with architects and contractors. He's designed ventilating systems and studied labor-management relations. He's handled million-dollar-a-month settlements

with connecting telephone companies for mutual use of Long Distance lines. And he's learned how complex bookkeeping is reduced to punches on IBM cards.

Today, Stu is a Staff Engineer in San Diego. He programs equipment and money for engineering projects as far ahead as 2½ years in one of the fastest growing areas in the United States.

"The telephone company is a 'look-ahead' kind of business," says Stu. "It can predict future telephone needs and the need for more and more management people. So there's a whale of an opportunity for the young fellow who really wants to get ahead."

Many young men like Stu Black are finding interesting and rewarding careers in the Bell Telephone Companies. Find out about career opportunities for you. Talk with the Bell interviewer when he visits your campus. And read the Bell Telephone booklet on file in your Placement Office.



BELL TELEPHONE COMPANIES

First Guest Of 'Leaders' Series Brings New Ideas To Campus

By Don Pinkerton

I was really proud of the Y for coming up with a Leader of America of whom not everyone had heard (there are a few still left, too!). That took courage and conviction, not to mention a bit of extra work. (It is harder to evaluate a man's work and ideas than to take a popularity poll.)

Prior to this time, the Y has wisely stuck to personages who could draw crowds on the basis of their position alone, and what they had to say came along free for nothing. With Maslow, they really went wild—they didn't even pick the best known psychologist. Maslow was picked, as the leader he is, purely on the merit of his outstanding work and his ability to communicate his ideas in an important field that is less sensational than it is intellectual and academic.

Normally, in this space, there is a long biography, including places the person has visited, listings of his more sensational accomplishments what his hobbies are, what clubs he belongs

to, and other trite and trivia. There isn't going to be much of one this time for two reasons: one, you could better avail yourself by reading the long, and necessarily stuffy (by The Tech standards) article on his ideas and, two, there is very little written on his life, and it isn't very pertinent to his visit.

By Maslow's own account, his most impressive educational ex-

SPECIAL REPORTER

Don Pinkerton '57 is presently a graduate student in Electrical Engineering at Tech. As an undergraduate he gained fame as co-chairman (with John Lango, ex-'59) of the now defunct Caltech Open Forum. Pinkerton is working with the YMCA on the Leaders of America program.

periences occurred during the late thirties in New York, where he had opportunity to work with and be taught by the many important psychologists of that place and time. He learned Gestalt psychology from Max Wertheimer and Kurt

Koffka at the New School for Social Research. Other greats that influenced him were Erich Fromm, Karen Horney, Kurt Goldstein, Ruth Benedict, and Margaret Mead.

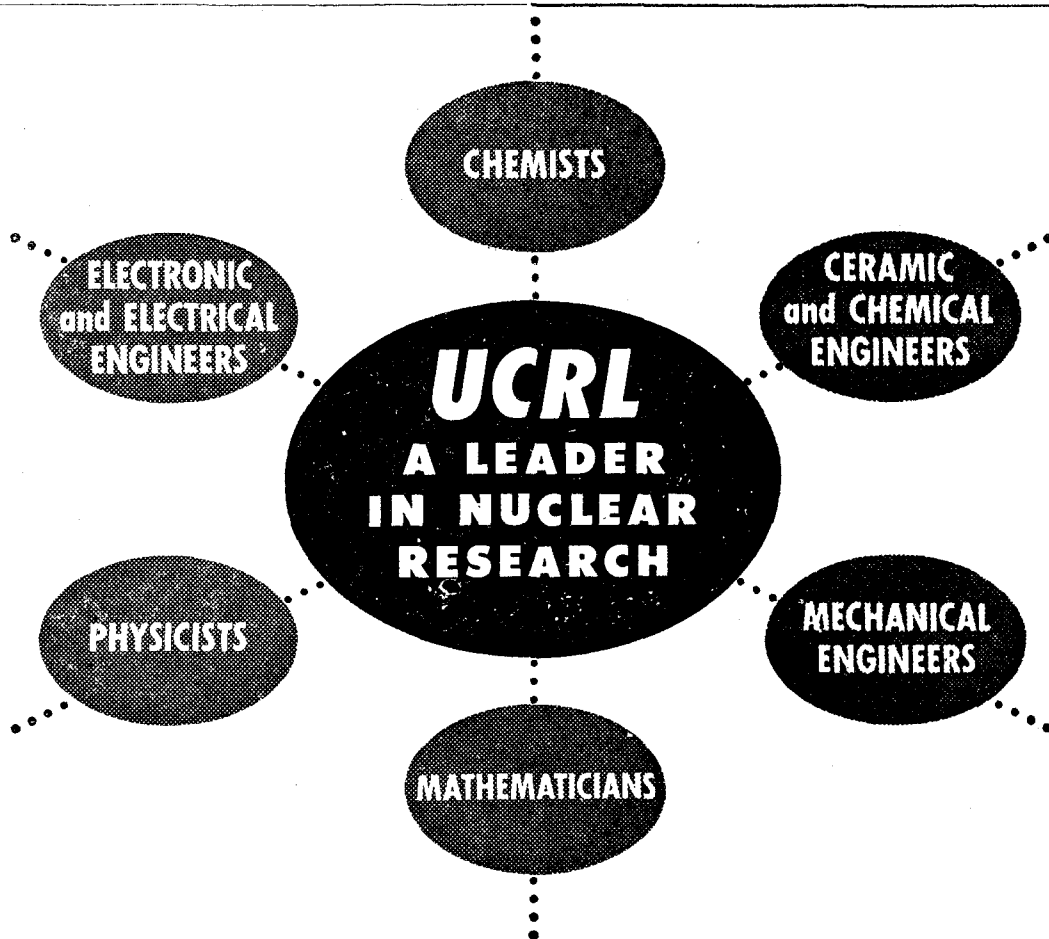
He has authored an impressive list of articles in the various professional magazines, most of which have been published in **Motivation and Personality**, which is substantially reviewed in this Tech, and **Principles of Abnormal Psychology**, which has nothing pertinent to Tech students.

Presently, Dr. Maslow is writing a book in Mexico, and when he isn't doing this, he is being chairman of the Psychology Dept. at Brandeis University in Massachusetts.

I was fortunate enough to hear Dr. Maslow, Erich Fromm, Gordon Allport, and others at a Conference on New Knowledge in Human Values at MIT, and was impressed with his clarity of thinking and his ability to communicate enthusiasm for the notions of psychology, as well as knowledge about it. I am sure he will provide a truly stimulating educational experience.



Dr. Abraham H. Maslow



DECEMBER 12, 1958

a UCRL staff member will be on campus to answer your questions about employment opportunities at the Laboratory.

Our scientists and engineers, with outstanding achievements in the field of nuclear research, are currently at work on diversified projects such as:

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Amiin And The Arts

By Joel Amiin

The current offering at the Pasadena Playhouse is Kyle Crichton's awkward comedy (?), "The Happiest Millionaire." The play concerns itself with the ludicrous difficulties of the Biddle family and is dominated by Neil Hamilton in the role of the senior Biddle.

Unlike former Playhouse productions (*Inherit the Wind*, *Visit to a Small Planet*) which were built around a powerful star and were effective vehicles for a single individual surrounded by a horrendous supporting cast, "Happiest Millionaire," has a mediocre, even if adequate supporting cast and suffers through the mediocrity of Mr. Hamilton.

Meaningless Drivel

The role of a pompous, rich snob is not a particularly difficult one usually. However, Crichton has made no particular

effort to delineate the character and this places great pressure on the star. Biddle moves from laugh to laugh filling the interval with meaningless drivel about the world as Crichton sees it. Hamilton does nothing to make the part more delectable. His interpretation is not even farcical; it too moves from laugh to laugh with utter disregard for the intervals between.

The one bright spot in the production is James Stapleton as Angier Duke, the confused rich boy. Mr. Stapleton, while by no means faultless, has a wonderful genuineness which makes his role delightful.

Gene DeWild was excellent as the butler; the rest of the cast was adequate. Mary McAlister stole scenes well and seemed quite professional.

CAMPUS BREWINS

L. Invar scores at UCLA sex-change; proceeding fine at breaking down barriers until . . . "I don't think I ought to . . . you see, I'm engaged . . ."

Meanwhile N. Swetsky, boy tough, informs three other trolls to wit: "I got a buck here that says you can't shower me in under a minute." Kerplash . . . 18 seconds. "Double or nothing you can't do it again," groans Swetsky. 22 seconds. Encouraged, Swetsky plots vile strategy. "Double or nothing again," he screams. Sixteen seconds. Back to the old drawing board.

Dads True Clued

Headmaster L. Drawbridge pulls down blackboard at Dads Day banquet to give true clue about building program; Dads learn instead interesting fact about feeding habits of Drubnoids.

Crouton Scores

D. Snipping, while at Phlegm party, loses date, finds her being entertained by T. Crouton, apprentice bartender. Date sees Crouton sitting in corner curled

up with warm copy of Scientific American, tries to make conversation. "I find this magazine more interesting than you," he suavely tells her. Snipping-wench claims he is misinformed; quite the opposite holds true. "Prove it," Crouton counters deftly. Curtain for Crouton.

Scurvy Safari Ambushed

Friendly white hunters, Wan Beaver, Don't Missem, and Cleavage Molhore trekked to the bush country in the middle of a name collecting expedition. Having fortified their souls they felt the need to kill a few flowers. On their return they were set upon by an unfriendly blue clothed native searching for sacred idols. Finding one under Missem's pith helmet, he chanted:

Hootch in the car,
Hootch in the car,
Hootch in the car don't go,
Man.

Quoth he as he christened the curb: "Hate to see this good stuff go to waste."

Replied Missem: "YES SIR!"

Maslow: Pioneer In Psychology

Y Visitor Originates Motivation Theories

By Don Pinkerton

How can I live the good life? How can I be at peace with myself? How can I be fruitful and happy? These are the age-old questions man has battered around, like the question of how many angels can dance on the head of a pin, without coming to much more definite an answer.

Dr. Maslow believes that research in psychology can solve these questions and many others necessary for the stable, peaceful development of man's future. The importance he feels psychology has in the future can best be described by his "psychologist's philosophy."

PSYCHOLOGY NEED

"I think psychologists are the most important people living today. I think the fate and future of the human species rests more upon their shoulders than upon any group of people now living. I believe that all the important problems of war and peace,

NOTICE: MOTIVATION and PERSONALITY and various other books and pamphlets by Dr. Maslow are on reserve in the Y lounge. It is suggested that you read at least some of Dr. Maslow's work before his visit.

exploitation and brotherhood, hatred and love, sickness and health, misunderstanding and understanding, of the happiness and unhappiness of mankind will yield only to a better understanding of human nature. I believe that medicine and physics and law and government, education, economics, engineering, business, industry, are only tools—powerful tools, powerful means—but no ends." (Note—He defines a psychologist as anyone with a basic understanding of the human nature, thus an engineer could be a psychologist and a nominal psychologist might not be one at all.)

At first this seems like a very flamboyant position, but we are sure you will not think so at the end of this article. Dr. Maslow believes that the individual is an integrated whole and must be examined as such.

Theories

"In need-motivation theory, the whole individual is motivated rather than just a part of him. In good motivation theory, there is no such thing as a need of the stomach or a need of the mouth, or a genital need. There is only a need of the individual. It is John Smith who wants food, not John Smith's stomach. Furthermore, satisfaction comes to the whole individual and not to just a part of him."

This approach to psychology is known as Gestalt (meaning whole) psychology. Its central core consists of a hierarchy of motivating needs which Maslow determined on the basis of experiments and observations, using the maxims of Gestalt psychology.

This hierarchy is only descriptive of the hypothetical normal man.

Undoubtedly the physiological needs are the most pre-potent of all needs. In the extreme case, all other needs (and thoughts) become simply non-existent. The urge to write

poetry, desire for an automobile or a wife, are forgotten as the individual dreams food, perceives food, thinks food, and wants only food.

As Maslow points out, hunger for food often expresses other needs than for food (e.g. love), just as hunger for food is often satisfied by other activities than eating, such as smoking or drinking.

Although man lives by bread alone (when there is no bread), what happens when there is bread, and he is not hungry?

SAFETY NEEDS

Most of what has been said about the physiological needs applies here, too, except that safety needs are one step down the ladder of pre-potency. Obviously people prefer and need safe, orderly, predictable environments which they can rely on, in which unexpected, unmanageable, or other dangerous things do not happen. The healthy, normal, fortunate adult in our society is largely satisfied in his safety needs.

If both the above needs are fairly well satisfied, there will emerge the love, affection, and belongingness needs, and the whole cycle will be repeated with this as the person's new center.

Now the person will feel keenly, as never before, the absence of friends, a sweetheart, a wife, and children. He will want more than anything else these various subjects for love, and will probably forget that once, when hungry, he dismissed love as unimportant.

"Human" Needs

After fulfilling the greater part of the above needs, Maslow's hypothetical individual will strive for esteem, and a place of respect among his fellow men. As he wants to be respected, so will he want to respect others. He will then develop a need for "self-actualization". A person inclined towards music must make music, an artist wants to paint, a poet must write, if he it to be ultimately at peace with himself. What a man can be, he must be.

The clear emergence of this latter need to express one's creative potential depends more than any other on the nearly complete satisfaction of any lingering craving for the previously mentioned needs. Very often you will hear a person complain of a "mental block" against his studying right now—that he just must go out for a walk, swim, motorcycle ride, or some other distracting activity. This can often be an expression of a lingering craving.

COGNITIVE NEEDS

These urges are generally closely related to other needs such as acquiring knowledge and systematizing the universe as an expression of the safety need, (or for an intelligent man, the actualization of his potentials). Above and beyond these, however, there is the simple and self-contained impulse of curiosity—the desire to know, to experiment, to philosophize.

As further proof of the existence of this need, it is possible to observe in society boredom pathology. It is observed that loss of zest for life, self-dislike, general depressions and deterioration of intellectual

life occur in intelligent people leading stupid lives in stupid jobs.

Maslow emphasizes that not all acts or responses are motivated. A person will often react out of habit, or due to various conditioning agents. One may make love not only for pure sexual release, but also to convince one's self of his masculinity, or to make a conquest, or to feel powerful, or to win more basic affection.

Once a need has been satisfied, it no longer acts as a motivating agent. The need, for all practical purposes, simply does not exist. The perfectly healthy, normal fortunate man has no sex or

hunger need or needs for safety, love, prestige, or self esteem except in stray moments of quickly passing threat.

Man and Society

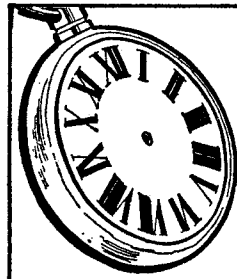
Maslow would say, then, that a healthy man is primarily motivated by his needs to develop and actualize his fullest potentialities and capacities. If he has any other basic needs in an active and chronic sense, he is simply an unhealthy man.

This, says Maslow, leads to another conclusion concerning the health of a society. Since a man is sick who is thwarted, and since basic thwarting is made possible ultimately only


by forces outside the individual, then sickness in the individual must come ultimately from a sickness in the society.

From Maslow's treatment of motivation theory, we see that he believes man has an essential nature of his own—needs and capacities and tendencies that are genetically determined.

Full health and normal development consist in actualizing this nature, in fulfilling these potentialities and in developing into maturity along the lines that this hidden, covert, dimly-seen essential nature dictates, growing from within rather than being shaped from without.



A watch is to tell time

but without hands... 
you miss the whole idea of a watch

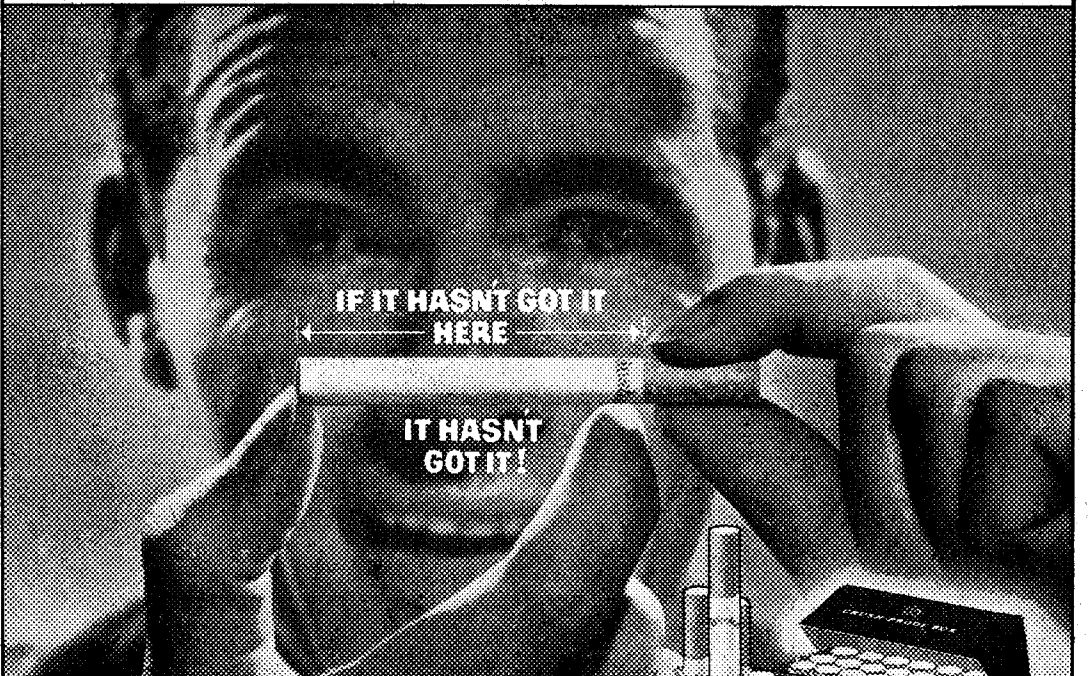
A cigarette is to smoke

but without flavor—you miss
the whole idea of smoking



When it comes to flavor

**It's what's
up front
that counts**



IF IT HASN'T GOT IT
HERE

IT HASN'T
GOT IT!

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Up front in Winston is

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That's why
WINSTON TASTES GOOD,
like a cigarette should!



Sports

Emerymen Host Occidental In Season Finale Tomorrow

AS I SEE IT

Rose Bowl May Lose Out As Home Gridiron Site

by Russ Pitzer

Caltech may have found a unique niche in football annals. A gentleman from Ohio wrote the school claiming that the 42-42 tie game with Cal Western was the highest scoring tie ever in collegiate football and asked for news articles and line-ups of the game.

I couldn't find any information to verify or contradict this claim, but there's a good chance it's true, since this man is probably an authority on football who collects such facts for a hobby. Perhaps someone knowing this will win a lot of money on a quiz show some time. Who knows? Maybe after the immediacy of the conditions of the game have faded away, we'll all be glad we tied instead of won.

Rose Bowl Expenses

Having home football games at Caltech has always been a problem. Playing in the Rose Bowl is quite expensive and only the conference opponents have been willing to help pay the expense so that the other games have been at Paddock Field, the practice field beyond the gym where there are no bleachers.

The problem will become more acute if the present trend of declining attendance continues; for example, the Pomona game in the Rose Bowl two years ago had 1900 people, this year there were only 900.

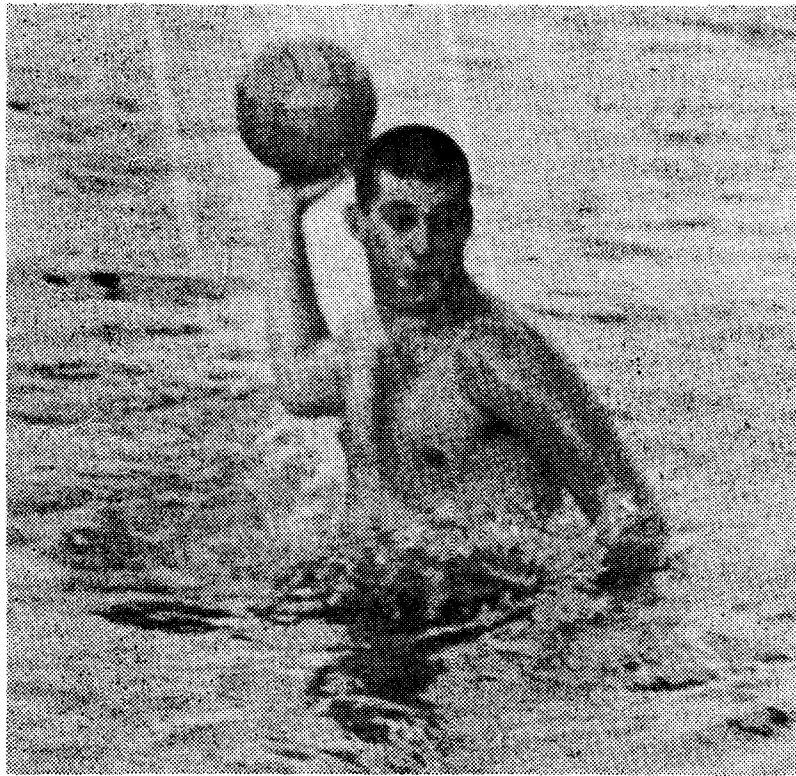
Bleachers in TP?

The alternative is to have bleachers, lights, and a scoreboard installed at Paddock field. According to Mr. Musselman, this would cost around \$70,000. This would mean we would have

about four Friday night home games a season, and in addition we could have the conference relays in track here every few years.

Divided Opinion

In the past it seems the students have been in favor of this change although quite a few thought playing in the Rose Bowl was better. Just watching your team play in the Rose Bowl is something. The Rose Bowl is the best field I've ever played on and I'm sure all the players like to play there, but these Saturday afternoon games in back of the gym with only a few people there are pretty bad. Whatever weight this opinion holds, however, is decreasing as the attendance goes down.



ASCIT Photo

Dave Tucker, all around star of this year's water polo team, poises for a shot. Dave has been outstanding on defense throughout the season and recently has been proving his mettle as offensive star, currently holding the highest scoring percentage of the team.

Feature New Offense Star

By Dave Tucker

This Friday, in the last water polo game of the 1958 season, Caltech hosts arch rival Occidental in the Alumni pool. Oxy has previously beaten the Beavers, but that was before Caltech began using their new zone defense.

The freshman team will also play the Oxy frosh. In their previous meeting, the little Beavers caught fire in the last quarter to upset the Tigers.

Lose to Claremont

An improved Tech team was defeated by a more improved Claremont-Mudd team Tuesday at Claremont by a 3-1 count. Mudd took the initial lead and pretty well commanded the game thereafter.

The freshmen fared much better Tuesday, defeating PCC 7-5 in overtime. The goalies were kept busy in a game which saw many goalward shots. Cantrell, Mitchell, and Salee each tallied twice for Tech, with Russell adding the other goal.

Playing well from Web Emery's version of the zone defense, an innovation in Tech strategy this season, the water polo team turned in a surprisingly good performance against league-leading Pomona this Friday.

In a previous game in the Pomona pool the team lost 23 to 1, due largely to lack of refereeing.

Last Friday was marked by clean play and a rugged Caltech defense. At the end of the first half the score was 4 to 0, Pomona's favor. Coach Emery, desperate for someone in the game who could shoot, put in Mike Kane in the third quarter.

Kane Potential Star

He was taking a decided gamble, for although Kane can shoot harder than anyone we've ever seen out for polo, he can't swim. He floats, though. The team started feeding the ball in to him in front of the goal, and after losing it a few times he scored a goal. Loud Cheers. Then he scored another one! More cheers.

The Pomona team became so scared they put two men on our corpulent secret weapon, and Dave Tucker scored a third goal, getting free to shoot as a consequence of the double-guard on Kane.

After Homecoming Crush

Gridders Try Once More



ASCIT Photo

A rare moment of excitement in the Oxy battle as halfback Lee Hood breaks away from two of the Tiger heavy defensive backs and scampers 20 yards with a pass.

Tackle Claremont With Newman as Doubtful Starter

Hoping to salvage some consolation from a losing season by copping the final game, Caltech's eager Beavers journey to Pomona Saturday to tangle with Claremont-Harvey Mudd.

Newman Hurt

With stellar end Fred Newman a doubtful starter, chances for a Tech victory are considerably dimmed. Newman was injured twice in last week's contest with a leg injury putting him out of the game with about one-third of the second quarter left.

Passing Plus Experience

Claremont, big and well-conditioned, uses a strong aerial attack to advantage and boasts an experienced squad.

Occidental struck fast and hard in last Saturday's Homecoming tussle to grab a 49-6 decision. Clarence Treat, shifty halfback for the Tigers, accepted the opening kickoff on his own 14-yard marker and sprinted 86 yards for the first score within the first 10 seconds of the match.

Gus Scores for CIT

Treat also garnered two more touchdowns on 25 and 20-yard passes from quarterback Bailey to top the scoring column. Bailey guided the Oxy air machine to four TDs with 10 completions in 12 attempts good for 184 yards.

(Continued on page 7)

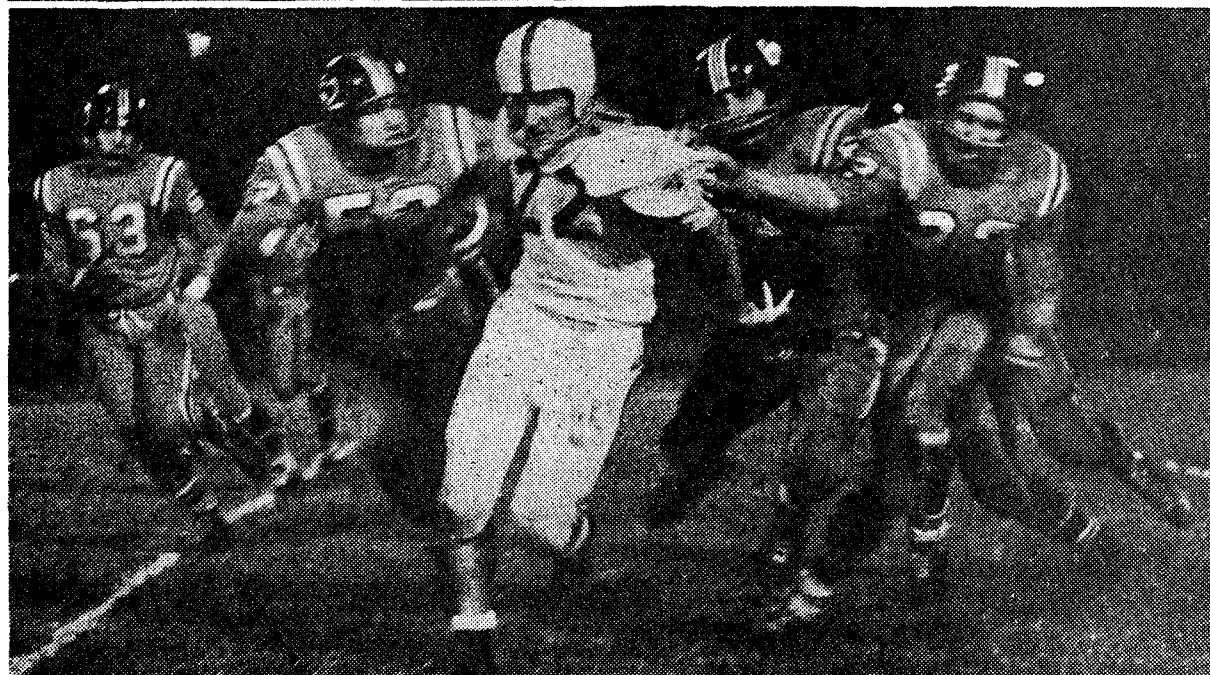
SCOREBOARD

Football Standings:

	W	L
Whittier	3	0
Redlands	3	0
Pomona	1	2
Occidental	1	2
Caltech	0	4

Scores:

LaVerne 18, Pomona 18
Cal Poly 35, Redlands 20
Whittier 27, Oregon Tech 8



ASCIT Photo

More typical of the action in the 49-6 defeat is this kick-off return in the first half with Beaver Mel Holland about to be smothered by five Tigers. Not a blocker in sight!

CROWN

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"HOUSEBOAT" with
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CALIFORNIA AT LAKE
JUST OFF THE CAMPUS

Cagers Face L.A. State In First Game

Basketball practice moved into full swing this week, with the season opener scheduled for Dec. 5 at LA State, a school noted for strong cage teams. Coach Gene Rock is faced with the staggering task of replacing four of his top six starters from last year's team that furnished Tech fans with many exciting moments and near upsets.

Gone through graduation are Glen Converse, Dick Van Kirk, Sonney Nelson, and Bob Emerling.

The two returning starters are John Stene and Fred Newman. Other principal experience lies in Len Maley, Ray Magdaleno, and Mel Holland, and several promising candidates from last year's frosh team.

Coach Rock forecasts an evenly matched home opener with Riverside, hoping the Beavers will be able to contain UCR's big star center, formerly from UCLA.

Frosh Practicing For Home Opener

The frosh cagers are hard at work this week, preparing for three games before the Christmas holiday. Top prospects among a squad that it is hoped will eventually number 15 to 20 are guards John Arndt and Porter Gerber, center Roger Noll, and forwards Dennis Gilbreath and Gerald Clough.

The junior Beavers open their season at home on Thursday, Dec. 4 with LA Trade Tech, then journey with the varsity to LA State on Friday, Dec. 5, and play at home before the varsity UC Riverside game on Saturday, Dec. 6 against the UCR frosh. Coach Priesler notes that it is too early to make any predictions at all concerning the team's possible success.

Booters Attempt Second Victory Over Bulldogs

Caltech's varsity soccer team will try to regain the winning way this Saturday at 10 a.m. when they host Redlands on our home field.

The Beavers have a previous victory over the Bulldogs, but it was a close, hard-fought battle. Luis Baez-Duarte, currently out of action because of injuries, is expected to return to strengthen the injury-riddled lineup.

Last Saturday Santa Ana J. C. defeated Caltech 3-1 in a twenty-minute overtime period. The Beavers, their ranks depleted by men out due to injuries, first took the lead on a goal by Julian Noble, but were tied 1-1 when the regulation time had elapsed.

The Caltech team was obviously tiring, but with no substitutes available every player had to play the entire match. In the overtime period Santa Ana put two goals past the weary Beavers to take the contest.

Remaining varsity schedule:
Nov. 26 at Riverside
29 U. of San Francisco (here, 10 a.m.)
Dec. 6 Pomona (here, 10 a.m.)
13 UCLA (here, 3p.m.)

Drugs Sundries Cosmetics Tobaccos
CALIFORNIA REXALL PHARMACY
555 S. Lake SY 2-3156
Breakfast Lunch Dinner

Oxy Wins 49-6; Frosh Lose

(Continued from page 6)

For the losers, dependable fullback "Gus" Gustafson netted the only score on a 3-yard blast through center.

Holland Makes Yards

Mel Holland provided more than half of Tech's 188 yards total offense in hitting seven out of 17 heaves for 81 yards and rushing for 28 more. Gustafson, second leading conference ground-gainer, was stopped in its tracks in gaining only 29 yards in 18 plays.

The Techmen piled up 10 first downs to the victors' 14 but the bulk of them were made against the Tiger second unit. Lack of depth again hurt the Beavers with many key men playing the entire contest against rested Oxy personnel.

The frosh followed their big brothers' example last week in dropping a 54-0 defeat to Redlands frosh. The victors, playing on their home grounds, ended the season by preserving their unscored-upon, undefeated status in conference play.

Within three plays after the kickoff Redlands had tallied and booted the extra point in

setting the pattern of things to follow. The first pair of running plays were thrown back for no gain but a short screen pass clicked for 50 yards and six points.

The Beaver frosh managed to edge into the Redlands 20-yard stripe only three times but the tough defenders piled up the running attack each time.

After scoring twice within

the opening minutes, the victors tallied only once more in the half to lead at intermission 21-0. But the tide burst in the final half with six interceptions and blocked punts playing an important part in the scoring onslaught.

The frosh closed out the season with four consecutive losses but show several good prospects for next year's varsity team.

Frosh Harriers Win Another

Led as usual by consistent Dick Tuft, the frosh Harriers defeated the Pasadena College runners last Friday 25-30 on the Tournament Park two-mile course. The varsity lost to PCC at three miles, 24-31.

Showing great improvement, Bob Juola took second place in the frosh meet, only eight seconds off Tuft's winning time of 10:41.6. Bob Ross also has been improving markedly according to coach Leonard, who looks forward to another frosh victory over two miles at Pomona tomorrow afternoon.

Wes Shanks again took top

varsity honors, placing fourth in 17:10. Pete Lippman followed close behind in fifth, with teammates Dennis Paull sixth, and Hansen seventh.

Winner Coulter of PCC posted an impressive 15:56.7 time. This was the first varsity attempt at the three-mile distance.

Next Tuesday the teams travel to Whittier for a three-mile varsity run and a two-mile frosh meet and the season winds up with the all-conference meet at Whittier on Dec. 6 when Oxy's perennial champions will be among the competition.

Darbs Top Flems; Retain Discobolus

Dabney's "big green" football team rolled to a 26-0 victory over the Klokemen last Saturday on the cold rain-swept Tournament Park field.

Dennis Kuli showed a good passing arm for the winners and Skip Stenbitt looked really impressive at defensive end, while Fleming, minus four of their starters, failed to show much real team strength. The victory was the second in the Discobolus Trophy race for Dabney who had previously beaten Ricketts in softball.

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Brigitte Bardot

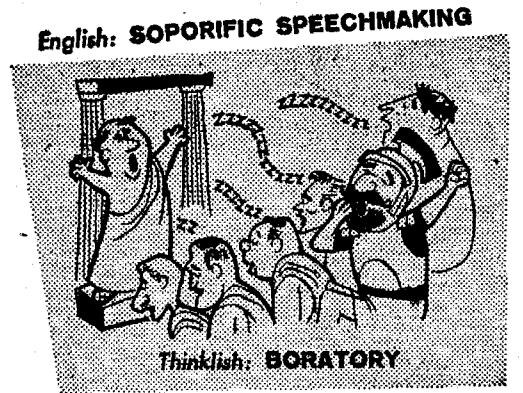
Rex Harrison, Kay Kendall
The Reluctant Debutante

THINKLISH



English: MAN WHO SQUANDERS HIS LUCKIES

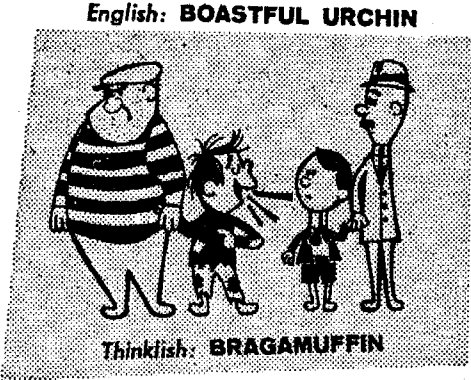
Thinklish translation: When this gent gives someone the shirt off his back, he throws in free laundry service. In passing around the cigarettes, he knows no peer—it's "Want a Lucky, pal? Keep the carton!" The man's really a walking testimonial to the honest taste of fine tobacco (he buys 247 packs of Luckies a day). Thing is, he gives 246 away—which makes him a bit of a *tastrel!*



English: SOPORIFIC SPEECHMAKING

Thinklish: BORATORY

ARTHUR PRINCE, MEMPHIS STATE U.



English: BOASTFUL URCHIN

Thinklish: BRAGAMUFFIN

DONALD KNUDSEN, HARVARD



English: BLUE-BLOODED HOUSE PET

Thinklish: ARISTOCAT

EDWARD SULLIVAN, C.C.N.Y.



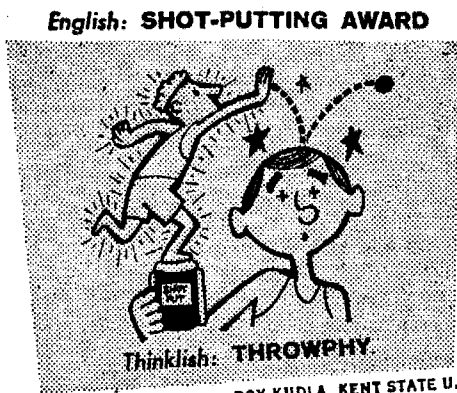
English: RUBBER HOT DOG

Thinklish: PRANKFURTER

CHARLES CRAIG, MISSOURI SCHOOL OF MINES

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Just put two words together to form a new one. Thinklish is so easy you'll think of dozens of new words in seconds! We'll pay \$25 each for the hundreds of Thinklish words judged best—and we'll feature many in our college ads. Send your Thinklish words (with translations) to Lucky Strike, Box 67A, Mt. Vernon, N. Y. Enclose your name, address, college or university and class.



English: SHOT-PUTTING AWARD

Thinklish: THROWPHY

ROY KUDLA, KENT STATE U.

Get the genuine article

Get the honest taste of a LUCKY STRIKE



Product of The American Tobacco Company—"Tobacco is our middle name"

Fineman's Shilling Scandals

(Continued from page 2)

The physicists here generally are wonderful people; Professor Allen in particular is a fine gentleman and a good teacher, both in his course and in the lab. He is taking me on a drive tomorrow, to some Perthshire country.

I am managing to get through his thermodynamics course without being completely snowed, through I have had no thermodynamics since my freshman year; my reading in Pippard's book last summer helps. It is fairly advanced, abstract, and breathless. After a whirlwind tour of thermodynamics potentials and chemical thermodynamics, we are now whizzing through heat engines. Text is Zemansky, and buries the basic principles in a welter of minute descriptions of thermometers and what-not.

(To be continued)

YMCA Sets Full Slate For Remainder Of Term

Twenty Techmen To Attend Asilomar

A delegation of more than twenty Caltech students will attend the Asilomar YMCA-YWCA Conference at Pacific Grove, California, this coming Christmas vacation, December 27 through January 1.

The conference, an annual affair, consists of various panel discussions, platform talks and informal get-togethers with other delegates. The discussion and talks will deal with many problems facing humanity today, both in the field of religion and philosophy, and political and scientific dilemmas.

Many posts on the delegation

are still open, reports chairman Tom Morton. Those desiring to attend should register by December 1 in the YWCA lounge. Any further questions can be answered by dropping a note in the "M" box in the Blacker House.

Volunteers Asked For Pala Project

Strong backs and plenty of work are needed during the next week ends for YMCA-sponsored service projects, according to Dave Cassell, publicity director.

A sign-up list is now posted in the Y lounge for students interested in going to Bakersfield this weekend to help repair houses for migrant workers. On the December 5-7 and December

12-14 weekends, trips are being organized to the Pala Indian Reservation, near Mt. Palomar, to install a water system.

Finance Campaign Approaches Goal

The annual YWCA finance drive is well along toward its goal of \$1800, according to Treasurer Howard Weisberg. He requests all solicitors, especially those who are contacting grad students, to bring in their pledge cards by tomorrow afternoon, when the drive officially ends.

Students are urged to help reach the quota for the drive, since outside contributors base their donations on the amount of student support for the Y.

Sweezy Talks At Service League Meet

Dr. Alan R. Sweezy, Professor of Economics, will address the Caltech Service League at its first meeting next Monday at 2:15 p.m. in the Athenaeum. He will speak on "The Cost of Living."

The Caltech Service League is an organization of parents, faculty and friends of Caltech, which attempts to make life at Tech more comfortable and home-like for the students.

Among the services the League provides are a Well Baby Conference for married students, a clothes wardrobe, including tuxedos, for students' use, and fruit and other gifts to students who have to stay on campus during Thanksgiving, Christmas and Easter vacations.

Dream Digs

(Continued from page 3)

things: the 100,000 ampere-turn solenoid slamming into the door jamb, and a master relay. She may also notice that approximately ten minutes later the lights have dimmed to half their original intensity. The sident servo-driven 10 KVA dimmer (procured, naturally from the B&G storeroom) then pauses for a few minutes as you step into the curtained-off closet and emerge with two large, chilled glasses of citricot elixer. Several glasses later, she perceives the strains of "Bolero" as the lights dim out (except for the small flood setting the autographed portrait in magnificent relief).

At exactly 12:25 (Flourish) the dimmer reverses just as a 100 watt trumpet set in the wall behind the portrait bellows, "How many of you think this incense is in bad taste?" As both of you raise your hands (you want to go to Model U.N.), the small flood shuts off.

Are you aware? Are you a success? Read next week's Boris and Griffen to find out how to be a complete out-of-it.

Fifth Column

(Continued from page 3)

gave em. See here's the sign." Amazed, I look down at the nearly obscured stone marker:

THIS PLANTING THE GIFT OF THE CLASS OF '26

There's a few seconds of poignant silence. Then, "Good luck with the gysindinymys, Dan." "Sure enough, boy" (snip).

I walk down California Street, my buckle undone, my smile gone. The snipping rings in my ears. Inside me a little voice will not be still: "They're is no such things as gysindinymys; that is a weed-patch." Who was it, I wonder, who so long ago sneaked cravenly into that weed-patch, carrying his phony marker? Poor old man Nelson.. I walk past the candy store and on to Kloke's.

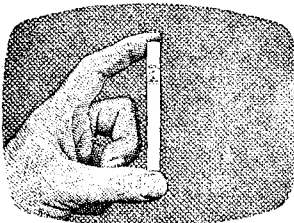
GET SATISFYING FLAVOR...
So friendly to your taste!

No flat "filtered-out" flavor!
No dry "smoked-out" taste!

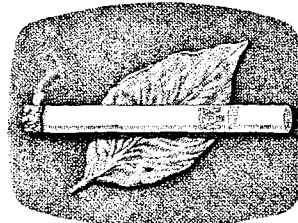


See how Pall Mall's famous length of fine tobacco travels and gentles the smoke — makes it mild — but does not filter out that satisfying flavor!

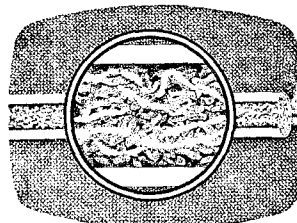
HERE'S WHY SMOKE 'TRAVELED' THROUGH FINE TOBACCO TASTES BEST



1 You get Pall Mall's famous length of the finest tobaccos money can buy.



2 Pall Mall's famous length travels and gentles the smoke naturally.



3 Travels it over, under, around and through Pall Mall's fine tobaccos!

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