

Freshmen tell first rotation impressions

Would introduce new techniques

Thinks present policy adequate

by Pete Kaftan

Anonymous

I am currently visiting each of the four student houses in order to choose the one which will best aid me in developing my academic and social career. Fine! A wonderful idea. But what have I found out about the houses. They all have the best athletes, the most officers, the best social program, and the most snakes. This I can't believe. I ask a few questions and I get good answers but everything can't be as good as it is cracked up to be. In two days I am trying to get to know a house. I want to know what a house is really like. I can't learn very much by just eating meals in a house and talking with the members for a few minutes before and after meals. I am finding out that Tech is tough, and Rotation is just not practical the way it is now.

I've pointed out what I don't like and maybe it is time for a change; I don't know. I want to get to know the houses and the people in them. This takes time; two weeks at least. Maybe Rotation should last the first term with a few of the restrictions lifted. I don't think the houses should run each other down but why not let Rotation last two weeks per house and let the house have a few social functions during this time. This way I could make an intelligent decision. As it is the way now, eenie-meenie-minnie-mo.

Before arriving at Caltech most freshmen are probably under the impression that all four houses are exactly equal and it does not make a difference which one they join.

I do not think that any house is "superior" to the others but I do believe that the houses are all different in nature. Each house has a certain kind of people and a way of life which is characteristic of itself. We freshmen have different interests and tastes and for each one of us there is one house that is better suited than the others. The only way we can find out which one it is, is to meet the men of each house.

Rotation gives us a very good opportunity to meet the people of the four houses. The most useful part of rotation are the bull sessions in the lounges after dinner. There we can evaluate the character of each house, and the house can evaluate us. The speeches given in the dining rooms by house officers are, in my opinion, useless. Their only possible effect is to bore the upperclassmen and to mislead the freshman with meaningless facts (?) and figures.

One shortcoming of rotation is that the frosh have a tendency

(Continued on page 6)

"The Cold War, willy nilly, is being defrosted. If it really disintegrates, despite the best conspiratorial efforts of our Price

Grid squad, Yell leaders, Bonfire to star in big Redlands pregame rally tonight



Tech's new songleaders are: (top, l. to r.) Suzy Jo Kincaid, Jo Anne Pegg; (bottom, l. to r.) Marion Marsh, and Virginia Gonzales.

Tonight, the lid comes off! The biggest rally ever seen by Techmen gets under way at nine o'clock on the baseball diamond in Tournament Park. To ignite this fever of excitement, a monumental bonfire has been piled—a bonfire to make preceding years puny by comparison!

Motivating this assault on the peace and quiet of the Pasadena countryside is the forthcoming season opener with Redlands. Head coach Bert LaBrucherie will introduce the full varsity squad, which goes against the Bulldogs this Saturday at eight o'clock in the Rose Bowl. These are the men who will be carrying Tech's reputation as well as the ball next Saturday, so it's essential that the whole school turn out for both the rally and game to lend full support, according to Bert.

The other special event to highlight the evening will be the introduction of the vivacious team of new cheerleaders headed by Virginia Gonzales of IHC. ASCIT yell-leader Jim Cribbs is to present the whole team of Virginia, Suzy Jo Kinkaide, Marion Marsh, and Jo Anne Pegg, in their colorful new uniforms. The girls' enthusiasm is said to be the much needed spark for a year of solid support from the stands, so don't miss out on the chance to be the first to welcome them. Providing the musical drive for the rally will be Al Forsythe and the Caltech band.

Since Jim has planned the program to take only a forty-five minute break out of the evening, it is imperative that everyone be at the diamond by nine on the nose. To further bolster the spirit, the houses will form a mass exodus to Tournament Park, probably with the usual traffic-stopping results. Don't worry about when the march gets under way, there'll be plenty of notice provided; just be ready to move out any time after eight forty-five. Late comers will miss the towering opening surge as the bonfire comes to life. Barring untoward interference from local authorities, the wave of enthusiasm created tonight can be the force to carry Tech through its best season in recent years!

Prospective queens selected for next week's Homecoming

The three busiest men on the Caltech campus this past week were the members of the Homecoming Queen Committee, Jim Cribbs, Dave Leeson, and Dick Kirk. Scurrying around the countryside and investigating every possible source of beautiful women, this searching three allowed no feminine pulchritude to escape their consideration. For these roving scouts were determined that the candidates for Caltech's homecoming queen should be among the most sparkling and attractive in Southern California.

Armed with lists of girls deemed suitable for the honor of becoming Caltech's Homecoming Queen, this committee reported to the meeting of the Board of Directors Monday night and gave its glowing reports. After much consideration, the board selected the following seven girls as candidates for queen:

From Occidental: Elizabeth Hamilton, Newcomb Hall; Ann Evans, Alpha Sorority; Mary Charleston, Delta Omicron Tau Sorority. From Scripps College: Jane Kearney and Judy Smith of Toll Hall, and Barbara Coleman and Faye Pearson of Grace Scripps Hall. From Immaculate Heart College, Kathy Diebel. From Pasadena City College, Cecil Ann Rowe.

Of these seven candidates, one will be chosen as queen and two as attendants. They will be selected by a general vote of the student body next Thursday.

The queen and attendants will be presented and the queen will be crowned in ceremonies at the Homecoming game against Pomona-Claremont on October 13.

Manager needed for dance class

First Rep Dave Leeson is leading a frantic search for a Techman who is willing to manage the yearly Dance Class. The Board of Directors have announced that nominations for a Dance Class which must be held each year during first term.

In past years, a dance instructor, with the able assistance of girls from the surrounding vicinity, has taught Tech students all types of dances, including Fox Trot, Waltz, New Yorker, Rhumba, Mambo, Cha Cha Cha, Samba, and Charleston.

Rally Commission election to be held

In order to fill the gap left by Charles C. Bonwell, who departed for the greener pastures of Leland Stanford University, the Board of Directors have announced that nominations for Rally Commissioner will open on Friday, October 5, and remain open until Thursday, October 11 at noon. Candidates are advised to get their nominations and speeches into the California Tech by Monday, October 8. Campaigning will begin on the following Monday, October 15 and continue through the 17th, with elections held on Thursday.

Announcements . . .

Big dance

Frosh! Here's your chance to take part in the first ASCIT social event of the year. All House social chairmen have promised to provide dates for the frosh to the after-game dance in Throop Club this Saturday, October 6. Upperclassmen can come, too.

See the world

A Navy Information Team will be on campus Tuesday to inform students of opportunities in the Navy.

ASCE meets

The American Society of Chemical Engineers meets Thursday, 11 a.m., 010 Engineering. Marshall Alper, a new faculty member, will speak.

Start writing—now!

The new Farrago editor is John Velman, with Carl Knapp and Kirk Polson as business managers, by appointment by the ASCIT BOD Monday. Velman requested humorous, serious and poetic material from the student body. Tentative deadline is November 1.

Open Forum to present Technocrat as first speaker on an extensive 1956-57 program

Caltech's Open Forum will present Reo W. McCaslin, an authorized speaker on Technocracy, at 7:30 p.m., Thursday, October 11, in 208 Dabney. After his thirty-minute formal address, he will throw the meeting open to questions from the audience for an hour.

McCaslin, Director of Section 1, Regional Division 12237 of San Francisco, has been a "Speaker for Technocracy" for over fifteen years and has given numerous lectures up and down the West Coast, from San Diego to Vancouver, British Columbia.

Way of life

Technocracy is not a set list of rules for conduct. It has no assumption of power theories, no political platforms. It is a

whole concept, a way of life. Consequently a clear understanding of its meaning to our society and ourselves cannot be acquired merely by examining its naked ideas.

A feeling for the spirit of Technocracy must be gleaned from language in which its ideas are expressed.

The following excerpts are taken from **Technocracy Briefs**, a quarterly "printed in U. S. A. by volunteer labor on Technocracy's own Press."

"Abundance and security to all is only possible on this continent through the functional administration of the means whereby we live, operating through a technological control of a balanced-load system of production

and distribution.

"Poverty and scarcity can exist only in a society operated chiefly by human toll. In any human society where human toll predominates, the result is poverty for the many and luxuries for the few."

Abandon price system

"Either we abandon the Price System and all its toil and scarcity-begotten trappings of debt, money, politico-financial control, decisions by opinion-decree, and adopt instead a functional, technological design for the production and distribution of abundance to all . . . or this Continent's Power Age civilization, and people, will suffer sudden catastrophe.

(Continued on page 6)

California Tech

Editors-in-chief — Tom Dodge and Frank Kofsky
Managing Editor — Bob Walsh
News Editor — John Lango

News Staff Dave Leeson
Feature Editor — Stu Ridgert
Feature Staff Mike Talcott, Mike Milder, Hal Morris
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Business Managers — Dan Chilton and Ed Park

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"Come into my Parlor"

It's approaching 2 a.m. and a handful of tired diehards here at Tech office are pounding out copy, trying to fill the last glaring blank places in your fine publication. It suddenly occurs to me that in a place like this, with all the intellect, vibrant youth and vigor, that there ought to be more newsworthy items than we have been able to corral during the past week.

Why, I ask myself are there not more people contributing interesting articles to our paper? The reason I answer (knowing that I would never ask myself a question that I could not answer; I find it too demoralizing) is that not enough Techmen are contributing to the Tech.

What to do? The answer is simple.

Knowing the great drawing power and influence of the Tech in campus life, I shall importune my fellow Techmen to suggest more articles of wider interest or better yet, upon reading this heartfelt plea, someone who desires the camaraderie and perspiration that accompanies editing a school newspaper may rally to the Tech office next Monday night, and the staff will go to bed before 3 a.m.

It might possibly be that you have something that you think is worth printing. If so, you can usually get it printed by bringing it down to the Tech office on Monday evening. If it is something really important and dear to your heart, slide the particulars underneath the office door with your name, house and room number on the paper sometime during the week. It will surely receive a feature spot in the next issue of the Tech.

Secretary's Report

TROMP REDLANDS RALLY Head Cheerleader, Jim Cribbs has gone all out for our big rally with bonfire and cheerleaders tonight (Thursday) at 9 p.m.

AFTER TROMPING REDLANDS DANCE Throop Club will be the place for the aftergame dance this Saturday, the first ASCIT social event of the year.

FARRAGO EDITOR will be John Velman for the coming two terms. Kirk Polson and Karl Knapp will continue as business managers.

RALLY COMMISSIONER NOMINATIONS will open tomorrow, Friday.

HOMECOMING QUEEN CANDIDATES were tentatively chosen.

respectfully submitted,
Herb Rauch
ASCIT Secretary

Technicolor rooms jazz up Fleming House, are the beginning of a new trend at Tech

This year marks the beginning of a new trend at Caltech—technicolor in the Student Houses! This change from the drab, neutral yellow formerly used throughout the buildings is a reaction to the desire for change shown by the members of the houses. This preference for color was demonstrated last year by the ill-fated room painting project of two Ricketts men.

Fleming was first to be splashed with color, because of the clockwise manner in which the Student Houses have received their summer overhauls.

Students may choose scheme The Fleming color scheme was not chosen by the members of the House, but by the contractor who did the job. Mrs. Southworth says that as long as the money is being spent on this project, the students should choose the color scheme which pleases them most. Therefore, she urges the members of the other houses to go over and look at the job that was done on Fleming, so that they will have something to base their opinions

upon. Though colors are no more expensive to apply originally than drab yellow, the multicolored system is more expensive to maintain, so care is urged in the treatment of the walls.

Changes made in staff

Several changes in the Student House staff have also been made during the summer. Winnie Kovach, who was married last October and is going to stay home to fill her new role of a housewife, has been replaced by Bea Leckband. In anticipation of Mrs. Lang's retirement from her 27 year position here, Mildred

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"I want you, I need you, I love you."

—House President to Frosh

Well, the eagle eye of the Beak has opened again, perceiving among other things, a remarkable telephone cure of Hal Dale's frustration complexes. Seems that the "one and only" left for the East and Ivy Leaguers, and turned out to be a very poor letter writer. However, a mutual exchange of phone calls put our (unsuspecting?) hero back on his cloud.

Shipwiped out

Overheard between Hugo (lady-killer) Fischer and a sweet young thing from Schmisps: He: "Why do you sit in your room at school and mope?" She: "Try to guess." He: "Because Tech is so far from Schmisps?" She: (laughs hysterically).

From the "Don't count your chickens..." dept. comes a sad case. Apparently Pete Abbey, through the grace of God and the size of A.J.I., had a date with one of the Scripps dolls. Admittedly, this is not very sad for P. A., but Darb's Veep has been seen with that old "aced-out" look on his face.



Logician Dave Leeson last Sunday proved beyond doubt that haste makes waste. Zooming down Oakland on his way to a pre-beach party breakfast, he zoomed through a stop sign and zoomed into another car. Ironic fact: all this zooming was unnecessary since he had forgotten to turn his clock back and was an hour early at the time.

Coughed up from Phlegm

Many satisfying sights pleased the Beak on his return to campus—Phlegm Goldfarb driving a '56 Chevlie hardtop with spotted seat covers and wearing a cheveating grin—R. Parkinswine saying to date, "Careful! Don't rumple my new bedspread!"—M. Greetch and D. Gilswine bragging about having accumulated

(Continued on page 6)

Whittaker has been made head housekeeper so she can become familiar with the routine in the Student Houses and eventually step into Mrs. Lang's post.

LETTERS

Dear Sirs,

It is no secret that there is a national election coming up. Every national election has a local side.

The Institute happens to lie in the 47th Assembly District, an electoral unit which begins at Altadena to the north, moves across most of Pasadena, and ends at Temple City. This District is further subdivided into precincts, over two hundred of them. A single precinct covers several city blocks, contains an average of three hundred registered voters, and maintains its own separate polling place and its own election board.

On election day the voters in each of these precincts within the 47th will go to the polls to elect not simply a President and a Vice-President but also a Senator, a Congressman, and a representative to the State Assembly. Gene Radding (D) and H. Allen Smith (R) are the Congressional candidates, Tom Birch (D) and A. I. Stewart (R) are competing for Assemblyman; and Thomas Kuchel (R) and Richard Richards (D) fight for the coveted spot in the Senate. The candidates for Congressman and Assemblyman are distinctly local boys. You see them around. Or you can if you are interested.

On the national level each party has some elements of a permanent, paid staff. On the local level those elements are negligible or non-existent. And yet there is a tremendous amount of local work to be done. There are slate mailings to be sent out (and the money to be found for them); there are temporary headquarters to be run; most important of all, there is the precinct work: going from door to door talking to the voters of your party (and trying not to argue with voters who aren't), giving them literature, urging them to vote, and seeing on election day that they do.

Both parties are recruiting precinct workers to do the above.

Mike Bleicher is recruiting undergraduates for Democratic precinct work; Grank Mallory is recruiting graduate students for the same.

I was unable to discover whether a similar effort is being made by Republicans among the student body; but I have learned that the local Eisenhower-Nixon

headquarters, 965 East Colorado, Sycamore 5-3281, would be glad to have volunteer help. Democrats should contact Stevenson-Kefauver headquarters at 194 East Colorado; Sycamore 3-4588. Peter Fay

To the Editor:

Last week, the Religious Inquiry Group of the YMCA held its organizational meeting; perhaps the readers of the California Tech would be interested in its outcome.

Our combined purpose is to examine ideas. Individually, it is each person's business what he hopes to get from the discussions, although our hope is for each member to find ideas adaptable (without reservation) to his personal philosophy.

The program to be followed is still only a broad outline: the discussions will first be concerned with the philosophical and psychological bases of religion in general, eventually covering individual religions, with occasional side issues such as religious art, music and religion, and so on. The discussion leaders brought in, as well as the actual topics, will depend upon what the fellows want. Needless to say, all points of view will eventually be presented.

To this end, our first meeting for discussion will be held at 7:15 on Wednesday evening, October 10, at Wes Hershey's home, 391 S. Holliston. Joining us is Leonard V. Wendland, who took his doctorate in Psychology and religion. His topic will be, "Why is religion?" We hope to come, through a psychological approach, to an intellectual grasp of why religion exists.

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George Logemann

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Answer lure of sea - join Sailing Club

by Jim Weaver

'Tis fall and time once again for all those who are tempted by the lure of the sea to ship anchor and let the breeze blow ye free (of all cares and studies). For 'tis Sailing Club that will be meeting, for sailing news and for greeting, all ye new members and old on Monday, October 8, 7:15, 206 Eng.)

May ye know that the Caltech Sailing Club owns six thirteen-foot Glascats plus a seventeen-foot sloop, has facilities at the Los Angeles Yacht Club, San Pedro (thirty-five miles from Tech) and is open to any Caltech undergrad (or grad) for his sailing, racing, and dating pleasure. For a nominal membership fee (four dollars per term, ten dollars per year) ye have a world of sea before ye (San Pedro Harbor, and any other sailing areas that may be visited while racing with other colleges). Come to the meeting Monday night and learn how you too can become a sailor "and see the world."

Meet Monday night

Seriously, all those who are interested in inexpensive sailing at its best are invited to come Monday night to hear more about Sailing Club, see some movies, and meet Mr. Irving, the LAYC representative. The most active club on campus has a full program planned including: training sailors, crewing on private yachts, intercollegiate competition, and just plain old week-end sailing. So Monday night let's all ship over to 206 Eng., new members and old alike.

Biggest wheels in this year's sailing club are those two inseparables, Gordon Fullerton and Gordon Barienbrock, who reign as Commodore and Vice-Commodore, respectively.

New EE lab soon to expand Tech facilities

A 1/2-million dollar addition to the Caltech campus, the Eudora Hull Spaulding Laboratory of Engineering, will soon make its appearance north of the chemical engineering lab, between Throop Drive and Dormitory Drive. A striking architectural style, plus elaborate facilities for electrical and mechanical work, combine to make it one of the outstanding buildings on campus.

The lab is scheduled to be ready for use by September 1957. In addition to the analog computer now in Bridge, it will house a \$200,000 digital computer, which requires its own refrigerated air conditioning system. The digital computer, already acquired by the Institute, is now being temporarily installed in Throop Hall.

"Master plan"

According to Mr. E. B. Hugg, assistant director, physical plant, this latest addition is just one step in a "master plan" which will utilize nearly all practical space on campus for scientific research and education.

CE's, EE's, and some ME's will attend classes there, although the facilities of the lab will, like most Caltech buildings, be devoted primarily to research. Spaulding Lab will ultimately be set apart for chemical engineering alone.

An interesting feature of the structure will be the separate building housing the engine test lab, designed to meet the specifications of Caltech's own Dr. Peter Kyropoulos.

Increasing thefts about campus make locked doors a necessity

This is the time of year when thieves usually operate around the various campuses. A number of thefts have already been reported on the Caltech campus and will probably continue unless a few simple precautions are taken. Generally the thieves concentrate on cash and valuable personal articles left in unlocked rooms, the gym, and around the campus.

The thieves usually operate in the following manner. A young man dressed as a college student circulates around the campus, usually when everyone is in class or in the late afternoon, taking articles and ransacking rooms for cash. If you see a stranger on campus, you should ask him politely if you can help

him. If he gives you a name or the room number of someone he wants to visit, show him to the room. If he pretends he is lost, show him the way out. Under all circumstances stay with him until he contacts the person he wants or leaves.

A few simple precautions will soon put these thieves out of business. During the next few weeks you should be particularly careful to (1) lock your room, (2) not leave large amounts of cash in your room, (3) not leave valuables around campus, and (4) put names in textbooks and on personal articles.

If everyone will cooperate in observing these precautions, the thefts will stop.

Tech debators to attend speech clinic

This Saturday ten new members to the Caltech Debate Team will attend a speech clinic at El Camino Junior College. This clinic will be highlighted by an analysis, given by a member of the American Embassy in Los Angeles, of the debate question for this year. The question is: Resolved: "That the United States should discontinue direct economic aid to foreign countries." The clinic will be in the nature of a demonstration for those who are unfamiliar with formal debating.

If you are interested in debating and missed the team's first meeting, you are urged to see Mr. Dwight Thomas in Dabney Hall. Mr. Thomas is particularly interested in meeting any freshmen, regardless of past experience, who feel they would like to try their hand at debate.

More than thirty students have already signed up for the team this year.

Alpine club will meet Tuesday

The four year old Caltech Alpine Club will hold its first meeting of the year at 7:30 Tuesday evening, October 9. The location of the meeting has not yet been announced, but will be posted as soon as the club's officers find out where it will be. The purpose of the meeting is to introduce the possible delights of mountaineering to any interested frosh - or other newcomers - and to give the club an early start on its program for the year by planning a practice climb to be held on the following Sunday.

The club's officers this year are Hugo Fischer, president, and John Velman, secretary-treasurer. Dave Allen, who was to be vice-president, is attending elsewhere

Film series starts Sunday

This Sunday the Caltech YMCA will begin its fall film series with a showing of the Alec Guinness comedy "The Promotor." Curtain time is 7:30 p.m. in Culbertson.

Three other outstanding features will follow on alternate Sundays: "Hamlet," "The Red Shoes," and "Death of a Salesman." Tickets are 45 cents a performance or \$1.25 for the entire season. They may be purchased at the Y office or from one of the Y representatives; Bill Dietrich or Don Pinkerton in Blacker, John Lange or Don Owings in Dabney, Hal Dessau in Fleming, and Mike Jones in Ricketts.

Hamlet coming

"Hamlet," starring Academy Award winner Sir Lawrence Olivier and Jean Simmons, will be shown October 21. On November 18 "The Red Shoes," an outstanding ballet with an illustrious cast will be shown. The season will end December 2 with "Death of a Salesman."

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Caltech blasts Baptists, twelve Beavers score

Coach Bert LaBrucherie's gridders opened their 1956 season by trampling a weak Cal Baptist squad, 67-0, Saturday on Paddock Field. Caltech scored the first time they got possession of the ball and the game was never in doubt.

Nine players scored touchdowns for Caltech, and three other Beavers got into the scoring act with points after touchdowns and a second-quarter safety. Dick Van Kirk was the only Techman to score two touchdowns, as Bill Moeur, Don Stocking, Fred Newman, Jim Workman, Dick Gustafson, John Kelley, Ed Nelson and Tony Howell took turns in pushing other Caltech touchdowns across. Charley Malone, Stocking, Howell, and Ed Krehbiel divided the extra point honors, and tackle Larry Whitlow rounded out the Beaver scoring by tackling Cal Baptist's Ramey in his end zone for a safety.

Bob Ingram, sophomore quarterback, was Caltech's total offense leader, throwing two touchdown passes for 95 yards and gaining 24 yards on the ground for a total of 119 yards. Van Kirk was second in total offense with 69 yards passing and 11 yards rushing. Gustafson and Malone were the leading ground gainers with 73 and 59 yards gained, respectively. Krehbiel, speedy fullback, gained 43 yards in four carries and had a 55 yard touchdown run nullified because of an offside penalty.

Kelley and Moeur were the leading pass catchers for the Beavers, with three catches apiece for 81 and 83 yards, respectively. Nelson, however, made the catch of the day in the second quarter, as he went up and over a Cal Baptist defender to grab a pass from Van Kirk for a 23 yard gain. Nelson played in the game with a broken finger on his left hand, which was immobilized by a heavy bandage.

After Caltech's first two touchdowns, the reserves took over for the Beavers and played most of the remaining time. Despite

this effort to keep the score down the eager second and third stringers moved the ball practically at will up and down the field to score repeatedly.

Cal Baptist mounted its only scoring threat late in the game as a pass-lateral combination play worked several times to move the ball to the Caltech 21 yard line as the game ended.

Statistics

	CIT	CB
First downs	20	8
Yards rushing	300	54
Yards passing	196	104
Total net yards	496	158
Passes att.	8	19
Passes comp.	7	13
Punt aver.	42	26
Yds. penalized	20	15
Fumbles	2	6
Caltech	13 22 12 20-67	
Cal Baptist	0 0 0 0-0	

Frosh Sports Roundup

by Brad Efron

Ed Priesler, coach of Caltech's freshman football team, is working hard but looking happy this season. In past years the Frosh teams have been rather unsuccessful, reaching bottom last year when they failed to win a single game. This year, however, the coach has a great deal of promising gridiron talent. Competition for starting backfield positions is heavy with halfbacks Lannes Purnell and Don Walker, fullbacks Dick Goodmna and Jon Kelly, and quarterbacks Lee Hood and Mel Holland looking particularly good.

pounds, the heaviest frosh line in recent Caltech history. Ends Sam Trotter and Lee Dyke, guards Carl Knickerbacher and Sam Sorenson, and tackles Bruce King and Ed Kleppinger have shown agility and speed in addition to brawn.

The Freshmen play their first game Saturday, October 13, against Whittier. The game starts at 2:15 p.m. on the Caltech field. These men will be the stars of the Varsity teams for the next three years. Why not come out and watch them play now?

Line coach Hugh Taylor has a group of men averaging 210

scheduled against Occidental, Pomona-Clairemont, and Redlands.



What's Doing . . . at Pratt & Whitney Aircraft

Test Lab "Upstairs"

Even in aviation's earliest years, it was axiomatic that "proof must come in the air". Out of this, the flying test bed was born . . . and slowly grew to its present-day stature as an indispensable engineering tool, implemented by an extensive variety of engineering skills.

The problems of observing and recording an engine's performance in the air are legion. Most recently, a Boeing B-50 and a North American B-45 were readied as test beds for Pratt & Whitney Aircraft's J-57 and J-75 turbojets. The experimental power plant, contained in a retractable pod in the bomb bay, can be flown to locations where atmospheric conditions permit most efficient testing. The prototype is then extended into the air stream for actual flight work with the regular engines idled, and the job of observing and recording in-flight performance begins.

From the first shakedown flight to the test engine's eventual acceptance, invaluable information is gathered. Perhaps the most vital contribution made by P & W A's flying test-bed program is the great reduction in time between initial development and quantity production of engines. Important, too, is the quality and diversity of engineering talent involved in such a program, for it spells out remarkable opportunity for today's engineering student.



After exhaustive testing in the highly advanced facilities of Willgoos Laboratory, the mighty P & W A J-75 is run in ground test prior to test-bed flight. The four-engine B-45 bomber (above) allowed test flight at high speeds and altitudes early in the J-75's development.

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EAST HARTFORD 8, CONNECTICUT

Unbeaten gridgers to host powerful Redlands crew

Caltech's varsity footballers will lay their new-found winning streak on the line Saturday as they host the unbeaten Redlands Bulldogs in the opening game of the 1956 SCC season. Redlands, preseason favorite for the SCC championship this year, has posted a 20 record in nonconference play to date this season, edging the Barstow Marines, 21-19, and trouncing LaVerne, 41-0.

Coach Jim Verdieck's Bulldogs boast a total of 13 lettermen on their 38 man squad, including the 1955 SCC total offense leader, Howard Tipton, and all-conference back Howard Newmann. In addition, eleven members of last season's unbeaten freshman team bolster the Redlands squad.

Caltech, fresh from its 67-0 trouncing of Cal Baptist, will try to contain the Bulldogs' multiple offense with a defensive line bolstered by Larry Whitlow, Russ Pitzer, and Ed Nelson, all of whom were standouts against the Baptists last week.

Expected to lead the Beavers offensively are Quarterbacks Bob Ingram and Dick Van Kirk, Halfbacks Don Stocking and Charley Malone, and Fullback Ed Krehbiel. Ends Bill Moeur and Ed Nelson, both of whom sparkled in the pass receiving department last week; are expected to lend versatility to the Caltech attack.

Last year Caltech met Redlands in the opening game of the season, dropping a 14-7 decision after two Beaver scores were nullified by penalties. The Bulldogs went on to finish fourth in the conference with a 1-3 conference record and a 4-5-1 overall record.

Varsity (hic) edges Alums

Late Monday evening a member of the water polo team staggered into the TECH office and agreed to fill an empty space in the sports section. He coughed up the following story:

"Type up the water polo game," he sez. "O.K., but only because I'm ploughed."

The season looks bad. We'll really have to fight for second. Maybe we really lucked out against the alumni. Maybe the "Ref" helped. But the results read: Varsity 8, Alumni 7.

Three goals in the last minute by Clark Rees against an inexperienced goalie gave the win to Caltech. All in all, everything but shooting looked amateurish.

However, there still remains practice time before the UCLA game tomorrow afternoon. (Now the I. W. Harper is beginning to show.) Last year's second placers will have to show some fight to beat out Pomona.

All that I can say is that we need your backing and some more of Coach Emery's excellent workouts to finish with a standing comparable to last year.

Urp! (Collapse)

Lewis, G	26
Smothers, N, G.	27
Gee, G	28
Wallis, FB	29
Sanchez, C	30
Kough, G	31
Hines, G	32
Odenbaugh, T	33
Hansen, G	34
Janewicz, QB	35
Hall, E	36
Fowler, FB	37
Sisk, T	38
Newmann, HB	39
Testa, FB	40
Crenshaw, T	41
Houser, E	42
Wells, C	43
Guercio, T	44
Peavy, T	45
Dew, T	46
McMahon, T	47
Precotte, C	48
Giddens, T	49
Parks, T	50

The Sports Corner

by Dick Van Kirk

Those of you who took the time to watch the Caltech-Cal Baptist four-act comedy of errors last Saturday got a chance to see what probably will turn out to be the Beavers' greatest offensive show of the season. Caltech kept its passing attack under wraps throughout the game, throwing only eight passes, three for touchdowns, through the leaky defenses of the Baptists. Caltech's only incomplete pass came when their erratic left handed quarterback overthrew Don Stocking, who had gotten behind the secondary for what looked like a sure touchdown.

Though I didn't get a chance to see the water polo team in action against the Alumni Saturday, I did manage to get a garbled, second-hand account of the game from one of the members of the team after the game. From what I heard, it appears that Clarke Rees and Vince Taylor will be the backbone of the team this season. Rees and Taylor scored all eight of the Caltech goals in the game Saturday, and will be the Beavers' main hopes against UCLA tomorrow.

In and around the SCC... It looks like another tight battle in the SCC this season for the league crown in football, and most prognosticators like Redlands and Pomona, with Whittier rated a strong dark horse. Occidental has lost two non-conference games so far this season, and the Tigers may have experienced a morale letdown due to the convincing defeat Santa Barbara gave them last week. But, only time will tell about a thing like that. Caltech, most people say, has improved steadily the past two years, but isn't yet ready to relinquish its hold on the conference cellar spot. Most members of the Beaver squad seem to feel differently, however. They think that this could be THE year for them, and they hope to demonstrate what they mean in the next two games against Redlands and Pomona-Claremont.

Plug of the week dept. ... Don't miss the gigantic pre-Redlands rally tonight at Tournament Park. From all indications it's going to be something to write home about.

SATURDAY'S ROSTERS

Caltech

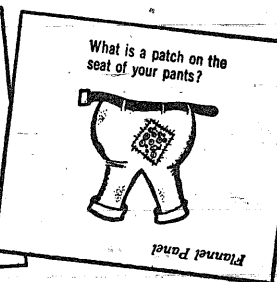
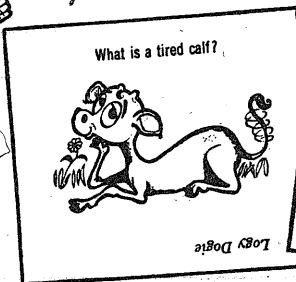
Van Kirk, Q	14
Ingram, Q	15
Howell, HB	21
Stocking, HB	22
Forsen, Q	23
Gustafson, FB	32
Krehbiel, FB	33
Herlein, G	34
Malone, HB	35
Newman, HB	42
Tangora, HB	44
Leonard, FB	45
Hays, C	51
Lingerfelt, C	52
Snyder, G	62
Conover, G	63
Pitzer, G	65
Baron, G	66
Berry, T	72
Bélsman, T	74
Rhodes, T	75
Harrington, T	76
Whitlow, T	77
Kelley, E	82
Stanley, E	84
Nelson, E	85
Moeur, E	86
Childs, E	87
Workman, E	88

Redlands

Crowder, E	10
Tipton, QB	11
Lovenburg, QB	12
Gillett, E	14
Smothers, HB	15
Ames, QB	16
Powell, HB	17
Nakauchi, HB	18
Lamb, HB	19
Frye, HB	20
Brassfield, E	21
Jacobs, E	22
Brooks, E	23
Norby, G	24
Westgaard, C	25



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STICKLERS ARE TICKLERS and a mighty soft way to make money! Just write down a simple riddle and a two-word rhyming answer. For example: What's a ball player who gets a raise? (Answer: richer pitcher.) Note: both words must have the same number of syllables — bleak freak, jolly dolly, vinery finery. Send your Sticklers, with your name, address, college, and class, to Happy-Joe-Lucky, Box 67A, Mt. Vernon, N. Y. Don't do drawings! We'll pay \$25 for every Stickler we use in our advertising—and for hundreds that never see print. And remember—you're bound to Stickle better when you're enjoying a Lucky, because Luckies taste better. Luckies' mild, good-tasting tobacco is TOASTED to taste even better. Fact is, you'll say Luckies are the best-tasting cigarette you ever smoked!

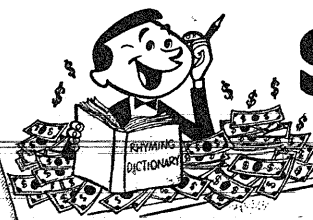
SEND IT IN AND

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Luckies Taste Better

CLEANER, FRESHER, SMOOTHER!

OPEN FORUM

(Continued from page 1) System leadership, there will be a lot more signs than the mere loss of \$19 billion in two weeks by the New York Stock Market, to show now hollow is the post-war prosperity boom we've been riding.

"Electricity and other forms of power are doing over ninety-eight per cent of the work of production for us now; so let's figuratively put the overalls on the machines, where they belong, and put recreation shorts on the humans!"

Forum history

The original idea was to invite minority group leaders to the houses for dinner as personal guests of members of the Forum, and afterwards hold informal discussions with them in one of the lounges. With this in mind the Forum invited Gerald L. K. Smith of the Christian Nationalist Crusade to appear on March 8, however he was forced to cancel his speech because of illness.

Communist canceled

Next Dorothy Healy, chairman of the Los Angeles Communist party, was slated to appear on May 10. After discussion it was found necessary to cancel the engagement.

On May 26 William Briggs, chairman of the Socialist Party of California, appeared in Blacker's lounge, where he spoke informally before approximately eighty students.

On April 26 Gerald L. K. Smith was again scheduled to appear. However, his visit was canceled in order to provide time during which the future basis of the Open Forum could be determined. Considering it to be the

FROSH ROTATION

(Continued from page 1)

to be prejudiced in favor of the house they were originally assigned to because they have been living in it for almost a week before rotation started. I would suggest for next year that the freshmen be encouraged to drift about all four houses from the first day after their arrival. This would also give the upperclassmen a chance to know the frosh from the other houses better.

Aside from the question of choosing a house, another good effect of rotation is that it makes upperclassmen put their best foot forward. When a guy is completely new at Caltech, it is a big help to be received in such a friendly manner by the upperclassmen. If initiation was during the first week of school many of us would probably feel miserable and start hating the school. After two weeks, however, we are already used to the place and we are ready to have a good time in initiation.

Peter Kastan

students' affair, the administration left control over the matter to the ASCIT.

Proving period

After a great deal of discussion, it was determined that the Open Forum should go through a "proving period" during which time it should bring to the campus more moderate speakers. If all goes well during the "proving period," the ASCIT will confer club status on the Forum.

The members of this temporary Forum are Mike Bleicher, chairman, Don Pinkerton, secretary, John Lango, Vince Taylor, and Gene Barston.

Art exhibition from England at Dabney hall

An exhibition of about 50 contemporary paintings, drawings, collagers and prints from England will be on display in Dabney Lounge October 1 through October 26.

The exhibition is the first in the renewed series of six exhibits to be presented in Dabney Hall by Caltech's Humanities Division.

The exhibition was selected by Jennifer Ross, director of arts exhibits, during her stay last in England. The selection was made with the cooperation and advice of the British Council of Arts, Lawrence Alloway, noted British art critic and assistant director of the Institute of Contemporary Art in London, and many London art dealers.

Consisting of works by 16 different artists, the exhibition includes drawings by three leaders of the noted New Realist school, Greaves, Middleditch and Smith, who represented Britain in the 1956 Venice Biennale. There will also be exhibits by Lynn Chadwick, winner of the Biennale award for sculpture, Joseph Herman, Keith Vaughn, Kenneth Armitage, Alan Davie and others.

The exhibition will be open to the public Mondays through Fridays from 10 a.m. to 5 p.m.

Johnston becomes command pilot

Lt. Colonel Lyle F. Johnson was awarded the rating of Command Pilot on September 4, 1956. This rating comes as a culmination of a fifteen-year career during which he has flown approximately 3500 hours.

CAMPUS BREWINS

(Continued from page 2) seven feet of glass containers in three weeks. "Not counting beer, either"—P. E. Mager taking office in T2, favorite Fleming after-dark hang out—R. Hugelotter, boy married man, being picketed by fellow phlegms bearing placard inscribed FOUR FOR FIFTY-SIX—End Larry Whitlow returning just barely single for the sixth consecutive vacation—D. Wideberg celebrating his divorce from Two Twigs with old friend name of I. W. Harper—In all, a pregnant beginning to a new and fruitful year.

Dinwiddle again, oh no! However, the Beak's close friend and cradle robber extraordinaire, Ken Dinwiddle, had the whole world in a state of shock for a few hours at least. The facts of the matter are fairly clear. At about 11:45 the Beak started to look for Dinwiddle to go home. After a thorough twenty minute search which included Olive Court, the Dorsey house mother's room, the bushes, Troll House, etc., Ken could not be found. Of course the

Beak figured Dinwiddle had gone home so he trundled home also. When he got back to Tech, alas, aleck, Dinwiddle was not there either, so therefore I dropped off to sleep before my conscience started bothering me. My conscience and the telephone started ringing simultaneously at the absurd hour of 2 a.m. I muttered a few brief words of greeting into the phone and was amazed to hear the cool collected voice of Ken at the other end.

One sided conversation

Ken: Yes, I'm at Scripps.
Ken: I know. It's two o'clock.
Ken: All we did was walk and talk.

Ken: I called up because I want to go home.

Ken: Yes I'm all finished now; will you get me home.

Ken: Linda.

Ken: None of your business. Dear reader. If you will read in between the lines you will find the Beak's words. They of course have been omitted for anonymity's sake. Dinwiddle definitely rates the Beak's orchid of the week for pulling one of the coolest stunts in years.

High-energy X-rays made New committee hosts speakers

HIGH ENERGY

Now operating with an output in excess of one billion electron volts, Caltech's recently revamped synchrotron is accelerating electrons to energies never before reached by any man-produced particles.

The announcement, made here today by Caltech President Lee A. DuBridge, means also that the synchrotron is producing X-rays of unprecedented energies. "This new high energy level," Dr. DuBridge said, "will greatly extend our ability to pursue research on the nature of the atomic nucleus."

In recent experiments, the big circular "atom smasher", 165 feet in circumference, has accelerated electrons to energies of 1.2 billion electron volts, it was reported by Dr. Robert F. Bacher, Chairman of Caltech's Physics Division. "From now on," he said, "we shall be operating at or near this energy level."

George Thomas, British member of Parliament, teacher and world traveller will participate in a discussion of world affairs to be held in the YMCA lounge at 7:30 on Thursday, October 25, sponsored by the Social Action Committee of the Y.

Near the end of this month, the committee, using questions designed by Professor Davies' H25 class and other interested persons will conduct a poll to determine campus opinion on important political issues and also candidate and party preferences.

On November 14, Jean Fairfax who has toured extensively in Africa will be on campus.

Later on, Walt Raitt, leader of the Pasadena section of the American Friends Service Committee is to speak. Mr. Raitt was head of an experimental human-relations camp which was attended by Israeli and Arab youths; and is an expert on Middle East problems.

Advertisement for Chesterfield cigarettes. Includes text: "IT'S FOR REAL! by Chester Field", "IF I HAD A MILLION!", "Life," he cried, "is so unfair I should have been a millionaire! I'd drive a car, a white Jaguar with leopard trim and built-in bar. Complete with blondes and red heads too, A movie queen or two would do... I'm lazy, crazy, debonnaire I'd make a perfect millionaire!" "Instead," he sobbed, "at twenty-five I'll have to work to stay alive!" MORAL: If you are \$999,999.00 short of being a millionaire, but you like your pleasure big, Enjoy the big full flavor, the big satisfaction of a Chesterfield. Packed more smoothly by Accu-Ray, it's the smoothest tasting smoke today! So, try 'em. Smoke for real... smoke Chesterfield!

Advertisement for Standard Oil Company of California. Includes text: "STANDARD OIL COMPANY OF CALIFORNIA CALIFORNIA RESEARCH CORPORATION AND OTHER SUBSIDIARIES", "Representatives will be on the campus OCTOBER 17 AND 18, 1956 to interview Chemists; chemical, civil, electrical, mechanical engineers; mathematicians; metallurgists; physicists. for career employment in California and other areas"



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