Students Invite Campus Saturday

BY JOSE MIDDLEBROOK

On Saturday, December 6, Caltech will be invaded by at least 330 high school students and teachers. They will be participating in the Fifteenth Annual Students’ Day.

According to Dr. Richard M. Seaton, chairman of the Associated Students Committee for Student’s Day, a total of about 1800 people have been invited from about 230 schools. The 1228 students and 255 teachers who are expected to attend will give programs and tour more than 70 campus exhibits during the morning.

Houses Beware!

There will be a luncheon for teachers managed by the Sophomores and Juniors, which will be followed by a talk from Dean F. Uhlenhut. The students will be the guests of the seven Houses for lunch. This will make sure that each House will have about 150 guests.

After lunch the students will be entertained by the Caltech Glee Club in the Athenaeum. This will be followed by an address by President Lee A. DuBridge. For the first time the afternoon program will be given in Beckman.

Exciting Talks

What Can a TV About Biology,” an address by Dr. James Adams of JPL will lecture on “T.V. from the Moon.” However, there will undoubtedly be more Adams’ talk just a lecture. The charts and drawings of the program will be “The Origin of the Elements,” a talk given by Dr. William Adams, research department.

For the programs the teachers and students will be divided up into groups, about ten groups of three teachers and 63 groups of 18 students each. Eleven

BY HANK SUIZUKAWA

Los Angeles was leveled by a thermoelectric attack Wednesday, November 25, as an area, about the size of the inner city, was destroyed by a thermonuclear attack Wednesday, November 25, as bombs and missiles were dropped by skillful use of their decoy devices.

In blaze of glory the junior defenders suffered only six of the nine deceptions. At least forty of the twelve bombers were dropped from the bomber ballist measuring 1500 feet in diameter. Edwards and Vandenberg Air Force Bases were rendered into a charred ruin, 35 miles from San Diego, and Palmdale were quickly reduced to similar conditions.

As always, the senior pilots/electronic for the kill, Capt. Stearns and the juniors realized that their last defenses had been penetrated and the path was blocked. By the time the Johnson’s prerequisites proceeded to drop over 1500 megatons of nuclear destruction on the L. A. area. Then, having uniquely cleared the road, the juniors had adjourned for the Thanksgiving vacation.

By Tom Greenfield

A random frosh with his blind date walks down the dock to the Ruddock lounge during Interhouse Dance. Note fire inspector in background investigating an unconfirmed report that the courtyard was flooded with alcohol.

THEOLOGIANS TO SHOW TECHMEN RELIGIOUS LIFE

By Tom Greenfield

This week many will have had a chance to meet one of the visiting theological students. Not only have we had this tremendous chance to broaden our experience by talking to people whose beliefs and dedication differ widely from most of ours, but they too have reacted to our attitudes and questions and consider that they have been enriched by the challenging of their own positions.

“We meet without unconventional rejection of religion here,” Bob Martin, the guest of Ruddock pointed out. Students, he said, appear more contemplative here in literature. wednesday afternoon again this bi-annual program, or undergraduate research? Many students and faculty members answers these questions with a definite NO! They feel the students are interested in science and other academic pursuits without the “good side” of science, not merely its gristy aspects, then maybe students would show a little more interest in science and other academic pursuits.

If you want to help, attend the next committee meeting, Wednesday, Dec. 9, 4:15 in the Y lounge. Save some souls for (front?) Feynman physician!

Y To Fight

BY GAUTAMA SIDDHAJITRA

“I hate science” said a random Caltech twit with firm conviction. The reason for such an outburst is hard to find — and quite natural. He is getting science crammed down his throat whether he likes it or not. This force-feeding of science, although necessary for a good technical education, has resulted in campus-wide anti-science, and even anti-intellectual, sentiments.

Is this anti-intellectualism conducive to an educational environment? Do these sentiments foster personal development on a scientific level? Do the student’s motivations, the Honors program, or undergraduate research? Many students and faculty members agree these questions with a definite NO! They feel the student’s interest in science and other academic pursuits should be fostered. This is one solution for the elimination of freshmen grades.

What about upperclassmen? Can anything be done for them? If activities existed which showed the “good side” of science, not merely its gristy aspects, then maybe students would show a little more interest in science and other academic pursuits.

ROTC SOPHS LEVEL LOS ANGELES AS JUNIORS DEFEND IN VAIN

BY HANK SUIZUKAWA

Los Angeles was leveled by a thermoelectric attack Wednesday, November 25, as bombs and missiles were guided by the sophomore ROTT defense system. In their defense system, under the command of Capt. Donald Stearns and the junior cadets.

The attack was part of the annual ROTT defense exercise held by the Caltech detachment and climaxing five weeks of planning by the sophomores and juniors. The exercise was designed to give the cadets a feeling for the complexities of planning offensive and defensive measures around a prime target area. The sophomores planned and executed the attack, while Capt. Stearns and the juniors planned the defensive “Duck and Cover”.

The sophomores chose January 1, 1966, as the date to launch their attack of 12 B-52 type bomb- 仅供内部使用，严禁外泄
Barber Shop

Today you are seeing what goes on at Caltech. The exhibits you have seen in the laboratories are characteristic, in many cases, of the type of research normally conducted at Caltech, the type of research that has made us famous the world over. But there are other sides to the story besides the burbling of a vacuum pump, or the chatter of a Geiger counter. Take a look around the student Houses after lunch, talk with a few Techmen. The Houses are the very, heart of under-graduate life, organized much like fraternities and only vaguely resembling the dorms of other campuses. Although the occupants of these houses are spread in scientific subjects throughout most of his waking hours, he manages to find some time to devote to activities outside the curricula. The range of possible outside activities is not as great at Tech as at some other schools, but these activities are often a major factor in making life here tolerable. Let's face it; no matter how much one may love science, it cannot be absorbed continually, without a break. And the break can come in enough different forms to please anyone. This importance of outside activities is true for other colleges, too. You may be considering applying for entrance to Caltech, or you may be a student already. But whatever field you enjoy most and decide to enter as a major in college, whatever colleges you choose to apply to, is not to underestimate the importance that the students and activities around you will have in your college days. We are thinking sincerely of ourselves when we come to Tech, to be sure to get an idea from students themselves of how life is here as a whole. And to all of you, welcome and enjoy yourself.

To Our Visitors:

BY J. C. RISPMON

The Ice House is offering a new comedy show tonight and although not up to the overall level of some of its more recent shows, it is nevertheless enjoyable, and a worthwhile venture. Tonight, Saturday night opened with a “special bonus” named Mike Shy who does comic impersonations of anything he can think of in rapid-fire. It is absolutely nothing to do with folk music, it is a novel idea but can use a bit more polish and more continually before it rates any rave. It is funny, though, and drew a good response from the audience.

The second act, which will be the first act in a normal show, was the Grand Street jugband. This group is not a true jugband, so throw the four play the banjo, guitar, and mandolin. (This makes them a good deal better than they would be if they tried to be a true jugband.) The fourth member plays a jug or combines a washtub and broom handle bass with a kazoo — and he’s good. The singing, and the act in general, is fair; they need to be a bit more lively and a few jokes between songs would help too.

Next was Mason Williams, a stand-up singer who brought his own rooting section. He has an excellent baritone voice and is very good on his kazoo songs, and on a few comic ones. Unfortunately there is a lot of time expending short ditties, most of which were original and none of which were outstanding. Although this took away from his act, he is a good man and probably a future leader. He is thinking sincerely of himself in the future, and sticks to the type of song which he sings well.

Highlight of the show by far was Casey Anderson. I described him as good the last time I reviewed him, so I can only describe him as great right now. Casey can sing just about anything superbly, and do dance show. He ranged from folk songs and blues to popular and Broadway. His forte however is singing blues. Perhaps I have heard better, but rarely have I enjoyed a great audience reaction and even a rousing encore from the dozen and two-thirds of the Kingston Trio spent evening sitting in the actual playing of the game. Each country is representative of the type of song which he sings well.

International Relations Game To Simulate World Problems

In January of next year, a group of Caltech students and faculty interested in international affairs will gather to play a game of International Relations. Games like this, developed by the Center for International Studies at MIT, attempt to put international relations on a serious game basis in which international situations are simulated.

Organizing the games is Dr. Edwin Morgen, professor of geology, who will be assisted by Dr. John Raser from the Western Behavioral Sciences Institute of Los Angeles where the Pacific Southwest College Foreign Associations Championships will be held on Dec. 4 and 5.

Caltech students and faculty interested in international affairs will gather to play a game of International Relations.

Barber Shop

Caltech Debates

BY JOHN HOUSE

The first show on last Saturday’s bill at the Shrine was Leon-cas’ Ilovan’s performance of Pagliacci. This is a satirical opera about a crying clown with homicidal tendencies. Following was swingin’ Carl Orff’s Carmina Burana, a campus favorite even since Surfin’k Tony Dahlen introduced it ‘way back last year. The show drew a large and enthusiastic crowd, who cheered the performance to a standstill more than once.

I. As the highlight on Jon Vickers (Canio), Mary Costa (Nedda), Robert Weede (Tonio), and Andre Montal (Beppe). This is the plot; a troupe of players, lead by the clown Canio, is up for a show. Canio is angered at stories that his wife, Nedda, has for a lover. He is the unit jealous husband.

Tino the Ruler • • •

While Canio’s wife, the hangover Tino enters and pro-

poses love for Nedda, who re-

grels him with a whip. He secur-

es threatening revenge. Then Silvio, Nedda’s lover (shad-

es) enters, and the two promise to run away together after the play that night.

During the actual playing of the games, real countries will be used. Rhodesia and adjacent coun-

tries will be represented as well as the major world powers.

The progress of the games will be interesting to watch because of the social consideration than this. I hope you consider the game. Each time is played in two-hour periods, each representing days or weeks.

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Lincoln Laboratory has openings for a limited number of engineers, physicists and mathematicians.

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Surfing Takes The Mind From Books To Water

In a school located in such a climate as Caltech is, one prominent sport usually is surfing. Also, however, in a school the size of Caltech the lack of transportation and surfboards present a problem. A simple solution to this problem is a surfing club and indeed one has been organized here. The idea came about last year during the third term when a group of surfing-minded students realized that a surfing club would make surfing more convenient as well as more enjoyable.

Go, Surfers, Go

The club now has about 30 members who are interested in body and board surfing alike. ASCFY has given its support to the club and has agreed to contribute one dollar to the surfers for every two dollars collected in dues. Membership in the surfing club is open to both graduate and undergraduate students as well as faculty. Warren Emery, Director of Athletics and Physical Education, is adviser to the club.

The club's officers are Lenny Fisher, president; Barry Dinius, vice-president; Ted Jenkins, secretary; Steve Hall, treasurer; and Jim Crabtree, meteorological consultant. Besides the above positions there is still another office, but as yet the holder has not been elected. That office is chairman of the board, surfboard, that is.

Students Day

(Continued from page 1)

The day's activities included a guided tour of the base facilities, NASA's X-15 test flight hangar, and the Ames Research Center School. In the evening, the detachment held a Dining-In ceremony in the Officers Club. In the Air Force a Dining-In provided an occasion for officers to meet socially at a formal military function and an opportunity to recognize individual and group achievements.

The guest speaker for the evening was Col. Charles E. Yeager, the Commandant of the Research Pilot School. He is the man who, in 1947, piloted the first aircraft through the sound barrier.

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**PRESTYLE COLLEGE EDITION/136 W. 23 St. New York, N.Y. 10011**
Athletes Get Sports Awards Monday Night

BY DOUG JOSEPHSON

The gala festivities of the Fall Sports Awards Banquet will take place on campus this year in Ruddock House, next Monday at 7 p.m. The banquet will be highlighted by the presentation of awards in football, water polo, cross-country, and soccer, with the awards being made by the coaches of each sport.

The guest speaker will be Lee Hansen, professional sports photographer, who will present film clips by himself centering mainly around his trip to the 1964 Olympic Games in Tokyo.

Good Food!!?

It is hoped that holding the Sports Banquet on campus will make it easier for all athletes to attend, since no transportation will be necessary and there will be no charge to Student House residents who participated around his trip to the 1964 Olympics in Tokyo.

Three undergraduate colleges offer students from all parts of the United States an opportunity to spend their junior year in the heart of New York City. Each is part of the Western Electric sponsorship: Washington Square College of Arts and Science, Pratt Institute, and City College of the City University of New York.

Western Electric is continuing to learn and grow in professional stature through Western Electric's Graduate Engineering Training Program. The objectives and educational philosophy of this Program are in the best of academic traditions, designed for both experienced and new engineers.

The IHC adopted track-and-field as a new Discobolus sport in the major sport category on November 24. The events to be run are similar to the Interhouse events. The 100 yard dash, 400 yard run, 110 yard intermediate hurdles, shot put (12 pound), high jump, and four-man 880 yard relay race will be run in the order of the Interhouse events.

No man may enter more than two events, exclusive of the relay, and each team is allowed three entries in each event, but only one relay team.

Choose any undergraduate school from the Leading Colleges of arts and science, fine arts, and business education in the United States.

Because he joined Western Electric

Jim Brown, Northwestern University, '62, came with Western Electric because he had heard about the Company's concern for the continued development of its engineers after college graduation. Jim has his degree in industrial engineering and is continuing to learn and grow in professional stature through Western Electric's Graduate Engineering Training Program. The objectives and educational philosophy of this Program are in the best of academic traditions, designed for both experienced and new engineers.

Like other Western Electric engineers, Jim started out in this Program with a six-week course to bring him in from the classroom to industry. Since then, Jim Brown has continued to take courses that will help him keep up with the newest engineering techniques in communications.

This training, together with formal college engineering studies, has given Jim the ability to develop his talents to the fullest extent. His present responsibilities include the solution of engineering problems in the manufacture of molybdenum core rings, a component used to improve the quality of voice transmission.

If you set the highest standards for yourself, enjoy a challenge, and have the qualifications we're looking for — we want to talk to you! Opportunities exist now for electrical, mechanical and industrial engineers, and for physical science, liberal arts and business majors. For more information, get your copy of the Western Electric Career Opportunities booklet from your Placement Officer. And be sure to arrange for an interview with the Bell System recruiting team visits your campus.

毕业生的教育

Graduation was only the beginning of Jim Brown's education.

Webmen Lose, Share Title

The varsity water polo squad failed to overcome the final obstacle on the road to an undisputed league title. A fired-up Oxy team took advantage of home conditions and a lot of enthusiasm to defeat the Bears last Monday. Caltech was able to keep pace through the first quarter when Oxy led 3-2. Oxy caught fire in the second quarter as they became impossible for the Webmen to handle.

The fresh polo team of the season lost to Oxy. Their defense was the key as they held the Oxy team to three goals. Due to their trouble in launching offensive, they were held scoreless and defeated 3-0.

TrackNow Legal For Discobolus

Fleming finally met its match in Discobolus competition, but then no House seemed willing to defend the trophy as the challenges from the other teams were very close. Page had the next challenge and chose the sport of basketball, among others; the basketball game was played just before Thanksgiving and ended with Page winning by a scant three points in a low-scoring game, 32-29.

The most exciting challenge pit Ruddock against Page in football last Monday. Ruddock was scoring two touchdowns in the third quarter on passes to Steve Blumsack, set up by short passes to Page Chapyak, Ken Brown, and Mike Roush, all thrown by Murray Sherman.

Page took an early lead following several short passes down the right sideline; meanwhile, Page's defense was the keynote as they held the Oxy team to three goals.

The final game of the season left Caltech and Oxy deadlocked for the conference championships. All in all, the season was more successful than most people imagined previously. Each year it seems as though so much talent graduates that creating a new team is nearly an impossibility.

However, new skills and talents are always acquired in time to give Caltech a reasonably successful season. Congratulations to Coach Emery and his fine water polo squad.
BY J. K. EVANS

The Beavers almost went out in a blaze of glory, but the wet blanket of questionable officiating cooled the flames sufficiently for CHM to pull a 17-0 victory out of the ashes. The fired-up Techmen muzzled CHM's fine QB Frank Kelsey well enough to keep the outcome in constant doubt, but two Tech scoring threats died on that Interhouse Saturday when fourth-and-short line bucks failed by inches.

The CIT defense, so formidable in previous games but so porous against Oxy, regained its former solidity after giving up a TD the first time CHM got the ball. For the rest of the half, bruising line play combined with Kelsey's slight inaccuracies (he was a little off that day) to kill three CHM drives and force the Stags to boot a 18-yard field goal.

Behind 10-0 with four minutes left in the half, CIT drove from their own 30 to the CHM 9, where on fourth-and-3 Frazzini bucked over right tackle. The ball was not marked down on the spot but moved clear across the field; then the yardage was measured and it was short of a first down by inches. One wonders...

The Techmen returned ready to go for the second half. When a Stag blocked his own punt, Powers recovered it on the CHM 31. On the fullback draw, Frazzini ran 27 yards to the CHM 7. Three line bucks later it was fourth-and-two for the goal. Frazzini bulled into the right side of the line and disappeared in the melee. When the bodies were cleared, the officials declared that he was two inches short of a TD; yells of protest arose to no avail.

CHM, taking advantage of this handy opportunity, then drove 99 yards for a touchdown to make the score 17-0. Tech offense and defense dominated the remainder of the game, highlighted by runs of 31 yards by Brennan and 16 by Scott, Hall's escape from hordes of tacklers to connect on a 10-yard pass, Scott and McWilliams' good secondary defense, and strong line play by Kampe, Myers, Josephson, Kawai, and Jackson.

The Beavers showed that they could absorb a beating and bounce back; one can't ask much more of a football team than that. The fine work of the young and inexperienced men give bright hopes for the future, since only three of this year's starting team will be lost through graduation.
Carmina and I

(Continued from page 3)

comedy. The action of the play exactly parallels Act I, but this time Castio kills Nedda; her lover jumps from the window, and Castio kills him, too. The opera ends with Tosio gazing: "The comedy is ended."

Wine, Women and Song

Carmina Burana has no real "star"; the chorus is all-important. The setting is what appears to be a ruined circular temple, bathed in red light. The bulk of the chorus is dressed in purple robes, and clustered in between branches in the wall. Soloists and dancers take up the center of the stage.

Carmina is broken into five parts. Fortune Rules the World is played like a pagan ritual. Springtime is a gay dance. In the Tavern is a wild orgy, with songs by a disappointed lover, a roasted cygnet, a worldly abbot, and a chorus of drunk monks. The Court of Love is the wooing of a fine lady by a handsome troubadour. This superb work is closed as it began, with Fortune Rules the World Forever.

WHAT'S NEW

IN THE DECEMBER ATLANTIC?

"Why Europe Fears Us" by Raymond Aron: Misunderstandings regarding nuclear proliferation among Western Europe and Russia has led to fear of the United States and to doubt its sincerity.

"Are Movies Going to Pieces?" by Pauline Kael: A lively criticism of the New American Cinema where there is no plot, no sensible meaning, and no recognizable form.

"A Compulsion to Succeed" by C. Michael Curtis: How sportswriters now use the academic approach with a touch of sincerity.

Plus an Atlantic Extra: Edwin O'Connor: "One Sleepy Morning"; An 11,000 word profile of the author's new novel on which he is now at work.

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• We MUST develop special refinements for computers and electronic data processing systems ... experimenting with the latest semiconductors, magnetic film and superconductive devices to provide new logic circuits and memory units for increased speed and capacity.

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Mr. Phillip M. Coffey
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