Houses Prepare for Interhouse Dance

Work, Frosh! By the time you read these words there will be little more than two full days left to complete construction for Interhouse Dance. The deadline is tomorrow night after dinner Saturday night, which means that the Caltech natives will be restless tomorrow night and all day Saturday. However, many Houses appear to be anticipating this rush and a few might even complete their projects before Friday night.

Two large Easter Island statues will greet travelers entering Rudder's lawn in the dining huts. To visit the islands, couples can ride a raft through the lagoon. To the south of the lawn will be a rock cliff with a cascading waterfall.

A volcano will rumble and belch threatening red vapor over parts of the Ruddock and Lloyd dining halls. (Black plastic tubing covered the guts.) Once safely past the volcanos and coral reefs, visitors will find themselves sitting down to a luau and a true paradise. According to Doug Gage, there is also the possibility of a hula table.

The music will be supplied by Johnny Sexton's Band, featuring Cubby O'Brien, former Montke- reed. Ruddock's Interhouse efforts have been thwarted somewhat by the unusually violent trade winds which have plagued the Caltech archipelago in the past few days. However, the tireless efforts of the Ruddock Board will not be in vain.

Waterfall, Everywhere!
The towering Dewitt Peak will accent the Swiss Alps theme of the Ruddock and Lloyd dorms. Down from an adjacent peak, Mitchell Falls runs into Beemkel Gulch and finally ends in a courtyard on the southern slopes. The water will be provided by a band. The design of these lovely peaks is the result of the creativity of Eric Jones, while the details are being hashed out by John O'Pray.

In the Land of DixieThe Hawaiian theme of the paddlewheeler Reuben E. Lee will be featured at its Idaho Interhouse, located in the Lloyd dorm. Lee is a restaurant which is presently anchored in Newport Bay at Corona del Mar.

In the grand ballroom of the paddlewheeler, the Crown City Jazz Band will provide swingin' entertainment. A theme of Dixieland style. Unwary and less-than-robust strollers must take care not to be swept up by the Y or on House bulletin boards.

Frosh Lose Blue Slips

By M. MRO

No grades for freshmen . . . except for those earned now. Frosh are not to have the blue slips, and there are no requirements for returning them. The Academic Standards Committee has voted that the freshmen will face no further notices given orally. Frosh who are probably the third term! Last Friday afternoon, the freshmen announced to the freshmen his decision to have failing notices given orally rather than make him feel guilty. MRO, the Academic Standards Committee has voted that the freshmen will face no further notices given orally. Frosh who are definitely doing well... Well, he philosophized.

Strong's reason for abolishing the traditional notices was to pre-

Continued on page 3

To Be Used Only For Interhouse Papier-Mache

California Tech
Associated Students of the California Institute of Technology
Volume LXVI.
Pasadena, California, Thursday, November 19, 1964
Number 9

Special Number!
Math Made Simple

Mathematics is essential to all branches of science. Therefore, the better educated each student obtains it is very important to his scientific education. Yet just what does the Caltech educational program provide in this area?

The theory of the math teaching is to teach as though all the students were mathematicians. This philosophy also applies to teaching physics to physicists and chemistry to chemists. Thus in mathematics the net result is a highly theoretical approach which mathematicians appreciate. However this approach does not fit the non-mathematican.

The highly theoretical emphasis in Math 1 and Math 2 is demonstrated by the weekly tests. Invariably half of the questions are abstract proofs. The emphasis is not on working a problem in a specific practical case, but to show a concept in the way they can make use of it.

We feel that a change should be made in the math program. Why force students who need a practical course in math to struggle through a theoretical maze that will be soon forgotten? A choice should be given to students of taking a practical course designed for their needs and the rest of the mathematician’s course. This way the Greek god of manly beauty, music, poetry, and copy by one O. Andreoni Roi of Rome, Caltech’s Apollo has never been for the father of a Mr. Louis Bradbury, owner of Mexican restaurant in downtown Los Angeles. And so Apollo has stood since 1911; his fate here at Caltech has been such a performance by the spectators as that Apollo. “But why have you this wonderful work of art that is good enough for the Popes to look at all covered up?” Gary Scott asked of Bradbury. “Some of the girls in the moving picture company, replied Bradbury, “thought it was in decent, so we covered it up!”

The Coming of Apollo

Several years later, with the opening of the Stickney Art School in Pasadena, Gray recuperated Apollo and contacted Bradbury. Bradbury readily consented to make an indescribable loan of Apollo to the Pasadena Art Association, provided that Gray could raise the money to move the statue. Since Pasadena had no art museum, however, the Art Association decided to exhibit Apollo at what was then Throop College.

Gray raised the money — about $100 — needed for reestablishing the pedestal of the statue from the street outside (where it was buried) and for moving the statue and pedestal to Throop College through tender-dollar donations. The first such donation was made by Dr. George E. Halse, the noted astronomer and physician.

And so Apollo has stood since 1911; his fate here at Caltech has been most uninteresting a good, deep within the Caltech archives one may find a story (Continued on page 8)

Close and Lamb Debate at UC Santa Barbara

Caltech debaters participated in the Santa Barbara Invitational Tournament at the University of California at Santa Barbara on October 8 and 9. In the round of Dave Claus and Fred Lamb, participating in upper division, the team lost two, Roger Davison and Gary Scott, losing their third in the upper division, recording a comp of three wins, three defeats.

The time has come, said the Walrus, to speak of many things, and thus we return to y’al’s favorite column at Caltech – the polka dot cornball.

We will start off with a cor­

From Other Campuses

By Jace

Letters

Grid Watchers’, Jeers Immature

One of the most embarrassing and humiliating things that can occur to a young man is to be thoroughly outscored in a football contest in front of a crowd of his classmates. Even the best players fre­

The Polytectic recently criticized Caltech for playing “the football kind of football”...

Marble Statue of Apollo Has Glorious History

BY TIM HENDRICKSON

In solemn humility stands Phoebus Apollo — Greek god of manly beauty, music, poetry, and prophecy — on the landing between Throop and Killoog. A copy of the famous Apollo Belvedere in Rome, Caltech’s Apollo has never been for the father of a Mr. Louis Bradbury, owner of Mexican restaurant in downtown Los Angeles. And so Apollo has stood since 1911; his fate here at Caltech has been such a performance by the spectators as that Apollo. “But why have you this wonderful work of art that is good enough for the Popes to look at all covered up?” Gary Scott asked of Bradbury. “Some of the girls in the moving picture company, replied Bradbury, “thought it was in decent, so we covered it up!”

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And so Apollo has stood since 1911; his fate here at Caltech has been most uninteresting a good, deep within the Caltech archives one may find a story (Continued on page 8)
Petition for Cal Politics Circulated

BY FRANK HENLEY

A petition supporting free political activity on a college campus where on-campus political activity was banned earlier this year. The petition expresses sympathy with Cal students who are involved in the Free Speech Movement.

Interhouse More Than A Saloon

A saloon that off-campus student groups set up at the principal entrance to the campus, on which they display pamphlets advocating their particular cause, which may be anything from a conservative patriotic organization to a socialist club. The ban was originally justified by the claim that the cables disrupted traffic, but was later clarified to allow informative literature but not persuasive literature or money collection. The refusal of students and non-student members of the political groups to comply with the University's rulings has led to suspensions from the University, and even to campus arrest. This arrest made headlines across the nation when students sat around the police car carrying the arrested man for 32 hours to postpone the arrest. During this time a temporary agreement was reached to help solve the free speech problem. Students candidates for the University administration failed to live up to its side of the agreement.

Interhouse Wanderers will see a real saloon complete with running water. Several buildings of the typical Western mining town style will be seen straight ahead and to the left. The saloon lies straight ahead (over yonder) and is complete with a bar and a nautical picture. Visitors needing a breath of fresh air (saloons have a notorious habit of having chokingly dense atmospheres) can step outside and pet the burro which will be tethered to a nearby post. There will also be a covered wagon, to serve as amusement rather than transportation. The entertainment will be on a stage monitored by a professional disc jockey. The owl's hoot cattle rustlers responsible for the Western scene are Jack Comly and Paul Swatow.

We Need Dirt!

The H这只 Shovel Saloon (E. J. Dabney, Proprietor) opens Interhouse night with a dancing double floor show at 9:30 and 11 p.m. The shows consist of a skit, "Vince Is His Own Reward" or "Nelly Has A Bad Day At the Track," Muncrass music, and a debate between two candidates for the mayor's office. These will take place on a stage complete with authentic curtains.

The show will last about half an hour. The saloon has complete gambling facilities, and a bar. For those not satisfied with just hanging around the theater and saloon, there is a covered wagon, campfire, and an authentic Western pallower.

Other attractions include the hanged house in upper alley number two. The men responsible for the hanged house are Mike Ligon and the random lynchings which take place on Interhouse night are Gordie Myers and Mike Ricketts.

Out, Out, Damned Squid

Couples who enter the Page underwater courtyard will find themselves in a eerie world with grotesque undersea monstrosities, including a natural archway. Once past all lurking dangers, couples who mosey over to Dabney's Gold Rush Interhouse will see a real saloon box complete with running water. The carnival atmosphere will be supplied by artistically-planed lights, figures, and miles of creepy paper. This year Lloyd is placing even more emphasis on the "Coasters." Spectators can also amuse themselves with the mermaid (watch out for her pet), Steve Brown is the supervisor of these underwater fantasies.

Do It Here, Tweet

Lloyd House will rock to the music of the "Parlays" in a gait Mardi Gras atmosphere. In true New Orleans spirit there will be a fountain in the courtyard. In the lounge there will be a bar of authentic Mardi Gras size and quality. The black mahogany top will stand at a height of 30 inches and will enclose the corps of bar-tenders in a space some 16 by 8 feet.

The atmosphere will be supplied by artistically-planed lights, figures, and miles of creepy paper. This year Lloyd is placing even more emphasis on the "Coasters." Spectators can also amuse themselves with the mermaid (watch out for her pet), Steve Brown is the supervisor of these underwater fantasies.

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(Continued on page 8)

Observations By THE SPY

1. WHY does the YMCA have three (count them, three) copies of "Science and Health with Key to the Scriptures"?
2. WHAT does Ed Hutchings know about Uncle Foster that makes Uncle P. pay off Mr. H.?
3. WHO is taking V.K. to see Parsifal?
4. WHAT did Dean P.C.E. do to his hand?
5. WHY does his secretary have an unmistakable lust for Peanut-covered doughnuts?
6. WHY are so many freshmen over six feet tall?
7. WHO has a position on tall frosh?
8. IS it really true that Elmo (Paul) Taylor's old secretary built the Red Chinese A-Bomb?
9. IS the Millikan Memorial Y Fung Drive? (Continued from page 1)

One implication of the grand amalgamation totals of the drive is to encourage les les. Outside contributors are reminded of the support for the Y demonstrated by the large annual contribution of the students, and they the there fore give more to such a popular organization. This year Blacker House won the girls from Scripps with an average of $477 per student.

Library unbuilt because the Board of Trustees can't decide how to spend the money. One implication of the grand amalgamation totals of the drive is to encourage les les. Outside contributors are reminded of the support for the Y demonstrated by the large annual contribution of the students, and they therefore give more to such a popular organization. This year Blacker House won the girls from Scripps with an average of $477 per student.

STUDENTS, if you need HELP in fulfilling your language requirement, inquire about tutoring services at BERLITZ, THE LANGUAGE CENTER, 170 South Lake Ave. SY 5-5888
ROTC Carries Torch Around Forest Lawn

Caltech's AFROTC Color Guard participated in the Fifth Annual Sacred Torch Ceremony held on Veterans' Day at Forest Lawn Memorial Cemetery in Los Angeles. Similar ceremonies commemorating the Allied veterans in World War I are held each year in France, England, Belgium, Mexico, Israel, and Italy, as well as in the United States.

ROTC & Veterans' Day at Forest Lawn

Each year there is an exchange of torches among the participating countries, with the United States holding three ceremonies—one at Arlington National Cemetery, one at Kansas City, and one on the West Coast.

Pack Leader Parker

Color guards participated from Army, Navy, and Air Force ROTC units and from veterans and youth groups. The torches of the various countries were presented by their consuls. In the televised ceremony from Forest Lawn, the British torch was carried by the color guard unit from Caltech. The torch was presented by the British Consul General, the Honorable P. G. F. Dalton.

Bite

Caltech's performing color guard was commanded by Max Bartlett. Other members of the unit included Dennis Weaver and riflemen George Sherman and Pat Succicito.

Huttenback Gets Ticket Money

For those Caltech students interested in cultural events, there will be more Institute-financed attractions upcoming. In addition to the opera tickets already distributed among the seven Houses, and the reduced admission price of $2.50 to the Require Theater, for which all students are eligible, Dr. Huttenback has revealed that in the near future there will probably be similar bargains for such events as Philharmonic concerts and the winter ballet season.

While winning the contest might not produce any monetary reward, suitable ideas will be pushed by the ASCIT Board for execution by the Institute.

Drop in for a game of skill and apply the laws of physics—besides it's FUN!!

— FREE INSTRUCTION —

LAKE-COLORADO FAMILY BILLIARDS
977 East Colorado Blvd.
792-0674

More Sound
(Continued from page 1)

parametrons; thus, amplitude and any one of the three, usually frequency, is enough to define any simple sinusoidal wave motion.

With the oscilloscope, he then showed that although wave form is dependent upon the phase relationship and the harmonics present, the sound is only a function of the harmonics. This led to a neat description of beats, a third frequency produced by the modulation of one wave train by another.

CIT Drama Club Presents
3 ONE-ACT COMEDIES
by Georges Courteline
Culbertson Hall, Caltech
Nov. 27 & 28, 8:30 P.M.
Tickets $1, Caltech Bookstore or at the door

GOING OUR WAY?

If you're mapping out your career destination, Ling-Temco-Vought offers a wide choice of exciting and challenging routes to your personalized goal.

Here at LTV, young, alert engineers are "going places" in the fields of aircraft, missiles, space, mobile surface vehicles, weapons systems, ground and airborne communications, electronics, and range services. Supporting these activities is an excellent engineering climate providing the opportunity to contribute and professional advancement which is a direct function of the contribution. Assignments are diversified and stimulating in such areas as: aerodynamics • avionics and instrumentation • dynamics • systems design • propulsion • stress analysis • communications design • telemetry and tracking • reconnaissance systems • amplifier and computer design • electromagnetic interference control • technical administration ... among others.

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...
More Football Letter

(Continued from page 2)

suiting remarks about the ability of their team.

The players cannot recover so quickly. First, it takes days, weeks, often months to free themselves from the bruises, bumps, sprains, and broken bones they suffer. They must also live with the memory of their own performance and their defeats. Yet they do this, and they always return, eager for the next game, or next season. They return because they enjoy playing football. They enjoy working together toward a common goal with a group of their peers. They enjoy even the violent physical contact. There will always be a group of students at the Institute who want to play football.

Immature Ridicule

I suppose the point of this letter is simply that I do not like to see the efforts of our football team being ridiculed by those who could not do even as well as our present squad members. I can understand the reaction which prompts such remarks, but I am disappointed in the maturity and intelligence demonstrated by those students who make the remarks.

I do not expect any change on the part of the nonparticipant Caltech man as a result of this letter. In fact, it will probably have the effect of worsening the situation. The pseudo-intellectual student cynics who read this will no doubt find several statements which they can artfully twist and parrot back in unison at the next athletic contest. Nevertheless, someone should speak for the team members, and I have done so. I should add that I write as an alumnus and former player, and not in any official capacity as a representative of the Institute or Athletic Department.

Players Deserve Respect

The Caltech football team deserves the respect of the student body for the hard work and dedication which goes into each football season. Those who mock their efforts, from the safety of the stands, only degrade themselves. If the positions were reversed, I'm afraid that scores such as last Friday's would be a regular occurrence.

I am proud of the Institute, and of the caliber of student here. I only wish that the few who display publicly such poor taste and manners could see that their disservice is far greater than that of the team.

R. L. Van Kirk

Thursday, November 19, 1964

CALIFORNIA TECH Page Five

Attention SENIOR and GRADUATE MEN Students

who need some financial help in order to complete their education this year and will then commence work.

Apply to STEVENS BROS. FOUNDATION, INC.
A Non-Profit Educational Fund. 610 ENISCOOT BUILDING, ST. PAUL 1, MINN.

San Francisco still lowest air fare—"ThriftyFair"
$11.43 plus tax

Western Airlines

"Chuck's a swinger," says she. "His Coronet is quick and clean, with a lean and hungry look. It's equipped with a 426 cubic inch mill that will mock your turtle at the strip or on the street. He's got four-on-the-floor, buckets, carpets, console, spinners, and a padded dash. And he said that everything but the four-speed stick and the 426 was standard." Then she broke his back by asking, "Didn't you pay extra for some of that jazz?"

"Don't let the truth hurt you. Better see the all-new, hot new Dodge Coronet before you buy a (cuckoo), a (cuckoo-cuckoo), or even a (cuckoo-cuckoo-cuckoo)."

You really know how to hurt a guy.
**Soccer Team Returns To Winning Ways, 4-0**

**BY HORNSWOGLER**

In spite of the disappointment concerning the setback from UCLA, the Beaver again fielded a victorious team Saturday as they defeated Azusa Pacific 4-0. Despite a shortage of substitutes and the ill-condition of the participating players as a result of late evening celebrations, Caltech experienced few difficulties.

The game started at a slow pace which usually marks any game which controls the ball. The only score of the first half was kicked in by center halfback, Dick Wade. The second half found Azusa scoring against itself once as the result of a bad clearing kick; the only score of the first half was added in the third quarter.

**Tigers Crush Gridders**

**BY J. K. EVANS**

For this week's secretory story, we will consider the decapitation and utter destruction of CIT's Beavers by the Oxy football machine Friday night at the Rose Bowl. The score, thanks to the infinite charity of the Oxy coach, was 68-0.

That bit of grace was the only kind thing Oxy's new coach did; however, after running up a first half lead of 48-0, he didn't even have the decency to put in the third string until halfway through the fourth quarter. Maybe he was afraid the Beavers would make a comeback and rack up seven touchdowns in the last quarter. In any case, there was no semblance of a contest; it was only in the last ten minutes of the game that it became reasonably clear that CIT actually had a coherant team, which did fairly well against Oxy's third string.

**Harriers Combine Pasadena**

A combined varsity and frosh team at Caltech placed sixth in a field of more than a dozen teams at the Biola Invitational crosscountry meet last Saturday. The frosh are undefeated and could win the league crown.

**Can beer be too cold?**

Maybe we shouldn't care how cold people drink beer... just so they drink Budweiser. (After all, we're in business!) We do care. And if you think that's unusual, you ought to see the care we take to brew the beer. For instance, we could save a lot of time and money if we weren't so stubborn about our exclusive Beechwood Ageing and natural carbonation. But we are... and we have to pay the price. In fact, we know of no beer produced by any other brewer that costs so much to brew and age.

That's why, after we go to such fuss to brew all that taste into Budweiser, we want our customers to get it all out. And this is a fact: chilling beer to near-freezing temperatures hides both taste and aroma. 40° is just right.

To make it easy for you, we've asked all the bartenders to serve Bud at 40°. Also, every refrigerator is designed to cool Bud at 40°.

Of course, if you're on a picnic or something and the Bud is on ice and nobody brought a thermometer... oh, well. Things can't always be perfect.
Varsity Hopsters To Begin New Season Soon

BY LEON FUNG

As winter draws nigh, veteran coach Ed Preidler is once again attempting to forge a basketball powerhouse out of the ruins of last year’s disarray. Faced with the graduation of five of the top six of last year’s team and the return of only two lettermen, the coach assures us that Tech may yet surge to victory with the new secret offense he is installing. This will replace last year’s four apostle-inspired plays. As it was felt beneath the dignity of Techmen to compete against teams we managed to beat last season, all these have been scheduled as scrimmages instead of games. This, it is believed, will give our team more opportunities to meet challenging competition. Our season, however, suffered a major setback when Ambassador College cancelled out.

The two returning lettermen from last season’s team are John Tucker and Dennis “Flitie” McCrory. Tucker last year set a new league record in technical fouls. Also returning from the varsity are Doug Halford, Jerry Yackidoff, and Mike Achbucher. Jim Pearson, who left after his frosh year to be with the girl he loves, has decided science is better after all and has doubled the team’s potential.

Heroes (?) Return

All the heroes but one of last year’s frosh team have reported for practice. They are Ed Hol, Herb “Legs” John, Dan Blair, Dave Goodman, Rich Williams, and Ronin Moore. New players out for the first time are Bo Barbosa, Jim Beale, and John Nady. Both Beale and Barbosa have looked good in practice, and Nady is becoming a really inspirational leader.

The “Engineers” already have three scrimmages under their belts and another coming up against Pacific Christian Friday night. The season opens here against UC Riverside on Dec. 1. Tech also plays L.A. Pacific on Dec. 8 and Life College Dec. 9 at home before the league season begins after Christmas. Although this was originally thought to be a rebuilding year, the feeling down at the gym is that if Tech can get past Life College we will be well on our way to a successful season.

Water Polo Team Wins, Clinches Tie for Title

BY TED JENKINS

The water polo team traveled to a disadvantage Pomona on November 19 where the combination of the cold and the sprinkling made for dense fog cover close to the water in the pool. Despite the adverse conditions, the varsity squad was able to Jump to an early lead of 4-1 at the end of the first quarter.

This lead was maintained throughout the second and third quarters as Caltech and Pomona scored one goal apiece in each of these quarters. In the fourth quarter the Beavers increased the lead as they scored 3 and Pomona 2. This brought the final tally to Caltech 9, Pomona 5.

Outscore Entire Team

The Caltech squad outscored the entire Pomona squad with seven goals while Rick Nelson rounded out the total with two. The squad played a careful ball-control game and no one was forced to leave the game due to excessive fouling.

The frosh team did better against Pomona this time than in their first game. Pomona had won the initial encounter 11-1, whereas the score was 9-2 in the more recent game. This emphasizes the ability of the frosh team to improve more rapidly than their opponents.

Two More Games

Two games were played last weekend. On Friday the varsity hosted Cal Poly of Pomona in a rematch and settled an earlier defeat by whipping Cal Poly 11-5. Effective double-boosting by a San Francisco State team on Saturday led to a 9-4 defeat for the Beavers, although Tech out-scored the opposition 4-1 in the final period.

With the victory over Pomona, the Caltech squad can do no worse than a tie with Oxy for the conference championship.

I H Swimming

Practice for Interhouse swimming will begin on Monday, Nov. 23, at 4 p.m. Coaching will be available at that time each weekday until the meet, to be held during the second week in December. All interested students should check with their House athletic managers concerning eligibility and PB credit.

Next Week’s Sporting Events

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<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>CROSS-COUNTRY</td>
<td>Sat.</td>
<td>10 a.m.</td>
<td>All-Conference Meet at Mt. SAC</td>
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<tr>
<td>FOOTBALL</td>
<td>Sat.</td>
<td>2 p.m.</td>
<td>Claremont-Mudd at Claremont</td>
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<tr>
<td>SOCCER</td>
<td>Sat.</td>
<td>10 a.m.</td>
<td>Semifinals at Pomona</td>
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<tr>
<td>WATER-POLO</td>
<td>Fri.</td>
<td>4 p.m.</td>
<td>Occidental at Occidental</td>
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THERE’S A FUTURE FOR YOU WITH •••

An equal opportunity employer
The CIT Athletic Director stated that the apparent reason for the school's decision not to play football this year is due to the costs associated with the sport. The school is dedicated to lovers of winter sports, and it appears that the decision was made to allocate more funds towards this alternative. The decision was made after considering the financial implications of continuing with football and the possibility of attracting more students to the school. The athletic department is looking for ways to increase revenue and support other sports programs.