RF's Stung
By Larry Friedrich

As most of you are aware, the end of October saw a sudden increase in RF's in the student houses, Flats, Fingles, and furniture disappeared from their normal haunts, causing a lot of angry feelings and a marked increase in RF's in the student houses, causing a lot of angry feelings and deep into the seamy world that should be noted, as a aside, meeting's were held in an effort to stop the RF's from spreading from one house to another. Following resolution concerning this was a marked increase in RF's in the Interhouse play. This year the two religious organizations have chosen six experiments to be done in two small self-contained gameroom.

Update of Game Room on Cue
by Eric Korteava

The Caltech Gameroom is located in the basement of Winnet House and is open to the gameroom and Y Xerox room, see Theresa Meiling in her office, 105. Recently, new ping-pong balls and pool cues were purchased, so the gameroom is in better shape than it has been for a while. There are more ping-pong balls, and replacement tips for the pool cues in Theresa's office, so if anything needs to be replaced or fixed, this should be brought to her attention. The RF's in the gameroom are powered by the IHC, and there is no threat of a stranglehold on the innocent lives. However, the IHC has made the campus a better place to live.

Calendar Listing

10 December, 1980 Opening Exhibition "Terry Allen (part of and in between)". Drawings, prints, paintings, sculpture, video, and installation by the artist. Through 25 January, 1981 - Open DAILY, noon to 5pm

By John Whitehead

The Student Space Organization has fulfilled its first term goal. We have chosen six experiments to be done in two small self-contained gameroom. The Caltech Redesign Organization for the artist. Refrshments. The Caltech Gameroom is located in the basement of Winnet House and is open to the gameroom and Y Xerox room, see Theresa Meiling in her office, 105. Recently, new ping-pong balls and pool cues were purchased, so the gameroom is in better shape than it has been for a while. There are more ping-pong balls, and replacement tips for the pool cues in Theresa's office, so if anything needs to be replaced or fixed, this should be brought to her attention. The RF's in the gameroom are powered by the IHC, and there is no threat of a stranglehold on the innocent lives. However, the IHC has made the campus a better place to live.

Now its Putnam time
The Putnam exam, a national math competition for undergraduates, will be given in Baxter, Dec. 6, for 9-12 ad 2-5. Interested undergraduates show up on first floor of Baxter at 8:45 AM. There will probably be extra exams, so students who did not sign up can compete. Do not bring paper or calculators, only pencils and erasers. Scratch paper and extra pencils will be provided.

Space Cadets
If you know the value of non-contradictory definitions and/or have the courage to trust your own judgements, and want to see free enterprise get into space, contact us by calling 793-4922 or writing to 130 S. Merefield, Pasadena, apt 6. L. Johansen and P. Diffen-daffer. Please respond by Saturday evening if convenient.

Experiments Chosen for SSO

by Eric Korteava

The Caltech Gameroom is located in the basement of Winnet House and is open to the gameroom and Y Xerox room, see Theresa Meiling in her office, 105. Recently, new ping-pong balls and pool cues were purchased, so the gameroom is in better shape than it has been for a while. There are more ping-pong balls, and replacement tips for the pool cues in Theresa's office, so if anything needs to be replaced or fixed, this should be brought to her attention. The RF's in the gameroom are powered by the IHC, and there is no threat of a stranglehold on the innocent lives. However, the IHC has made the campus a better place to live.

IHC has made the campus a better place to live.

Experiment

By John Whitehead

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EDITORIAL

A for the Term

To the Editor:

I disagree with Phil Albert's petty criticism of the editing of The Tech in the last issue. Adding one word in italics to an article is scarcely "irresponsible" or "thoughtless".

The general opinion of the Tech staff as expressed in class [Lit 15] is that the November 14 interhouse article written by Albert was ridiculously biased. Fleming did have an interhouse, but it certainly did not outclass all of the others, such as Blacker and Ruddick. . . nearly the significance of a Broadway play. . . Fleming's play was a crude comedy without a single point applicable outside of Pasadena. It was meant to be funny, not profound. Rudock's luckless Loch Ness likeness was still as good as or better than the Cambodian scene; at least you could walk on the bridge.

Our responsibility is to write for the whole school, not just for our own house. The editors are there as guardians against distortion. I have had paragraphs castrated by my own editors. A little as a pompous article is no reason to cry. The editorial staff is too overworked to do more than meatball editing, so if you want to protect your articles, you should join them instead of insulting them.

--Stuart Goodnick

LETTERS

VAX: = PDP-10

To: GRIPES
cc: THE CALIFORNIA TECH
Subject: VAX Reliability

One of the reasons cited while the PDP-10 was still around for getting the VAXen rather than some other computer system was the fact that the VAX has "modern peripherals." May I suggest that you have been beaten by PDP-10 at its worst point, because it is more reliable than the VAXen have proven to be, and by far most of the down-time of the VAXen has been due to the failure of their "modern peripherals." If failures have, in fact, been due not to the hardware of the VAXen, but rather to operator error, then perhaps I suggest that "modern peripherals" probably deserve modern competent operators.

--Carl Lydick

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THE CALTECH Y . . . . . . . fly-by

Today, Friday, December 5: a NOON CONCERT with the Caltech Jazz Band. The concert will begin promptly at 12 noon and will end by 1 o'clock. Let this band jazz up your lunch time, and enjoy the company of Pretty Pat out on the Quad. Bring your lunch.

Saturday, December 6: the trip to the Kings vs. Islanders HOCKEY GAME leaves from Winnett Center at 5:30 p.m. Those 12 lucky people who win the lottery for tickets on Thursday are reminded to rendezvous with their transportation on time.

Saturday, December 13: DECOMPRESSION. Festivities begin at 8:30 p.m. and will go on until 1:30 a.m. Come and relax, detach yourself from the academic life, and enjoy the Caltech Y award-winning films starring Rocky and Bullwinkle. Remember the free munchies and intellectual games which will be available!

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The California Tech
Friday, Dec. 5, 1980

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Scholarships For Engineers Offered

Approximately $30,000 in upper-division college engineer- 
ning scholarships will be awarded in state and national com-
 petitions announced this week by the Consulting Engineers 
Association of California (CEAC).

Robert E. Randall of Ran-
dall/Lamb/Associates, San 
 Diego, chairman of CEAC's 
scholarship committee, said 
 CEAC's Fifth Annual California 
Scholarship Competition 
is open to all engineering 
 majors scheduled to enter, 
 next fall, their final or next-
to-

would like to diffidently sug-
gest to the world that, 
were more time devoted to 
quality and less to being pro-

t, and were less significance 
attatched to the promptness 
and urgency of the issues. 
All you need to do is get 
a more comfortable plane, 
with fewer ulcers (All you pro-
out there--can you here me?) To-
case, sit down, slow down, un-
wind, and take a little time out to enjoy yourself. I'm not 

The snowline is currently 
at 17,000 feet. See ya there! 

LONDON SCHOOL OF ECONOMICS 
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Government, Industrial Relations, International History, International Relations, 

Law, Management Science, Operational Research, Philosophy, Politics, Social Administration, Sociology, Social Psychology and Statistical 

Mathematical Sciences 

Dr. Robert Orr, Dean of the L.S.E. Graduate School, will be on your campus on Monday, December 10, visit co-ordinated by the 

Political Science Department. 

Applications are open all year, but must be in CEAC's headquarters office by February 20, 1981. 

State winners will be announced in early March; national winners, in April. 

Implementing the California scholarship program is the CEAC committee of 26 owners and executives of CEAC member firms, who provide personal liaison with the state's colleges and universities.
Sushi
Or Not Sushi

If you like Japanese food then it's probably a little disappointing to be in Pasadena and you want real food, it's hard to avoid driving, but if you're one of those "I'll-just-stick-to-song-who-either-a-owns-a-car-or-b-likes-to-run-long-distances-through-traffic", you definitely enjoy going to Hanashibi in downtown L.A. for some hot sake and delicious platter of sushi.

Sushi is a Japanese hors d'oeuvre made of sweet rice rolled into a ball and overlaid with various sorts of raw seafood. Although it may be a bit squeamish at first, they'll quickly find that whether it's top-grade fish, fresh rice, tuna, or octopus, the taste is uniformly fantastic. There's a great mustard between the rice and the fish, so watch out. If you don't like horseradish, ask them to make it without it—then you can spice them up as you please. Although I just called them hors d'oeuvre, sushi are an excellent light meal, and they're not too outrageously priced, either. Six dollars will get you a good bit of food, including a soup, and that seems quite reasonable in these days of spending five at Burger Continental for something of an anesthetic nature. The sashimi (raw fish) is rumored to be excellent, but they were sold out when I went (which lends itself to the claim).

The shrimp tempura was average, neither too great nor too much. If it had been, the fisheria was about the same. Clearly this is a good place to head out for a fall. To Pala at Il Forno Friday through Wednesday, and they're in the city, so it's fun just to walk around. A very healthy break from Caltech, Saga, and Pasadenas.

Bruce Sams

The Fat Man
Cometh

Palidl, blochty carp slide through murky like motions of thought (though I feel it's a bit of evil mind). Tendrils of cloud clutch at the sickly moon. A shimmering silver reflection draws tight about the solo, dimmer lit night. The light goes out. The moon drowns. The carp scatter into darkness. The fat man is here to feed the fish, a new comets lights the sky with a commercial message where a queen, leaving but a growl of the theater. The ensuing pause of silence is ever an dramatic.

The fat man's faithful European battle vans land on his melon shoulder and nibbles affectionately at a bleated ear. He gestures theatrically across the water. Breadcumbs fly from his fingers and attract a black koi who deliberately swims up, a mouthful. His followers finish the remains.

"Hear me!" he croons, at more crumps, Doritos now, fall from his puffs, yellowish goldle with disgust. a carpeting, you treacherous, fallen koi, you and I. A Rall - Who se - B e i nd - is Everything, accept this offering your companion flings a leaf of stale pupum½, the fact that a mouse and the fat man is here to feed the fish. The shrimp tempura was average, neither too great nor too much. If it had been, the fisheria was about the same. Clearly this is a good place to head out for a fall. To Pala at Il Forno Friday through Wednesday, and they're in the city, so it's fun just to walk around. A very healthy break from Caltech, Saga, and Pasadenas.

Bruce Sams
Nearly every member of the Caltech student body can describe what the school motto is: “The truth shall make you free.” For those who have never pondered the meaning, the quote can be found in John 8:32 of the Bible (mine’s a wrong Revised Standard Version). If we cannot deduce physically or through human reasoning, is it true that a physical science can make truths out of fact? We must answer, in John 8:32 Jesus tells us that if one speaks the truth in his heart, and can prove it, then he can be free. Is it not a truth of facts and figures. It spouts the ocean of humanity, whatever we can prove, and makes them human. It is a quiet truth, a truth within, and it offers to each of us the only true freedom—freedom in spirit.

—Chuck Nichols

The following communication was received mentally from an entity identified only as “Flakey” and manifested by its alter ego at an immense, though purely physical separation.

“I got into hard drugs when I was in high school—you know, acid, dust, downers, speed. For awhile I was pretty messed up, but then I started straight out—stopped using much, got a job, got accepted to this institute of higher learning. Wanted to make something out of myself—I guess I wanted to study science, or maybe engineering and get a good job somehow. So hard to think...remember.

Thought this school would be real serious, intellectually—boy was I wrong. After a week, I fell in with the wrong crowd—drinking, partying, smoking, at first I thought I could handle it. So confused—did I really think I could stop anytime? I just fell back into my old habits so easily...

Although I was determined not to mix drugs and studying, I noticed I was gradually losing my motivation. Must of been all that dope I was smoking. Trying to study, but my perceptions were, I thought, really flawed. I failed tests and exams got harder and harder, but I clung to my old ideals. I was determined to get into Quantum Physics 2 (Intro to Waves, Quantum Physics, and Statistical Mechanics), started getting into quantum mechanics, and I guess it was just too late. I realized what I had done, and something, something was stopping me—the law was really there, or so I thought. Whatever it was, something was stopping me, I realized. I had to wake up.

The fish churn the pond in their excitement. The water turns darker than ever, then calms, and returns to its original clarity and silence. A single carp breaks the stillness.

—Didi Wright Dhiss

Fats

from four falls, a Vision appears of the present, future illusion, a gentle green forest growing in the clear pond inhabited by shy little fish. "Surely the existence of the three-headed mirth is no longer possible because it is an understood rachinoceros, he lunges onto the rim and throws vast handfuls of the stuff onto the water. The fish swirl maniacal, the fat man dances insane. The bat flies in lunatic patterns. Lightning strikes the nearest ninety-story building in precisely the same spot as before. The steering pool rolls about in its bed, splashing the fat man's dancing feet. The bat chooses exactly the wrong moment to land on his neck, upsetting his delicate lack of balance, and he lurches with a spasmodic squeak into the muck. The fish churn the pond in their excitement. The water turns darker than ever, then calms, and returns to its original clarity and silence. A single carp breaks the stillness. — Didi Wright Dhiss

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continued on page 8
The trap of any fine journalist is to fall into a rut, and with this in mind, I must offer an explanation for this week's column. When embarking on the solemn quest of exploring the world's wonders, one invariably finds that most of them are vicious. Pus, bile, diarrhea, and countless other constituents of the grotesque are fluid, and the reader is warned not to dismiss this article on mucus as a simple reopening of pus. Mucus is not pus; there is a universe of difference between them, and to confuse the two is to deny their respective philosophical identities.

This column will deal with the mucus which is the gel-like material secreted by the body's mucous membranes, but particular attention will center around nasal mucus. Mucus varies in color from clear to light green, and in some cases to opaque red, and it exists in two primary forms: the viscous or mucilaginous form found in the upper nasal passages, and the dried, solidified form that clings to the lower nose. The former we will refer to by the Russian term "Soply" (5 o pl _ o), while the latter will be called by the American name, "snot." The alert reader will have immediately seen that the contrast of hard and soft, of positive and negative, indicated with snot and soply actually implies the Taoist doctrine of Yin and Yang. Snot is the yang concept, the active, rigid, immutable reality; and soply is the passive yin, pliable and adaptable, matter without form. This analogy does not stop here, however, for within each of our two polarities, we find this same dichotomy. Soply, being a sort of sticky, gushy jelly, can be thought of as oscillating between formlessness and rigidity. In context with its own reality, soply is rigid and unchanging, but when acted upon by an external entity, it assumes the passive role and conforms its shape accordingly. Snot, on the other hand, is well defined, but implicit in its structure is the ability to transform itself. As anyone who has rolled a piece of snot between his or her fingers, the delicate form of snot can be altered with proper stimulus. Thus both the yin and yang of mucus, respectively, imply the entire Taoist system, and this is the fundamental balance, the primordial symmetry crucial to understanding any philosophical system. This synthesis is best illustrated by that form of mucus extracted from the nose in which half is snot and half is soply. If one examines this material on the end of the finger, one sees the extremes vary as the mixture shifts through different experiences.

Snot and Soply also unify many of the early Greek schools of philosophy in terms of the elements: earth, air, water, and fire. When air and fire are mixed with soply, it is a product, and water and fire (since ice is cooler and warmer than snot), Earth, including independent of these two elements serves as the inter or focus of the ongoing transformation of yin and yang into yin. The dynamic equilibrium universal reality focusing earth, water, and fire is the root philosophical question: what is the role of man in this scheme? Must the focus of reality within him flow the stand from which existence maintains material meaning. In this sense, the purpose in life is to be a vessel for mucus. While pus is the active renewal of mucus, the passive consequence this, the life and being with form.

Humility is general and is the general form that with mucus is to rest this nirvana. The eating of another as an art community, for it continues the change from snot to soply. The blowing of the nose onto the body like initiates the process of becoming snot. The synthesis of these two polarities provides the basis for the equilibrium that insures a healthy existence. —Stuart Goodson

De Kàrann Fellowships
Eighteen fellowships $2,000 will be awarded in 81-82 academic year to students enrolled for study in any discipline, entering their senior undergraduate year, third or more graduate year. Deadline for applications is January 1. For more information contact Linda Berkshire (2280) Financial Aid.

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Caltech Barely Bounced Into Hoop

by P.G. Hephzibah

The Caltech Beavers basketball season has come to a close with successive losses to Cal Baptist, Southern Cal Col., and L.A. Baptist. So what is new, one might ask. Well, this year's B-Ball Beavers do not have the same teams in the past, and despite the losses of Pete Edwards, Greg Blaisdel and Joe Kadzinski, this team shows the potential to be great in the future. What's more, this year's team looks like it deserves to be on the court with the other teams in the league. This increase in respectability is shown by the Caltech basketball team.

Seniors Pat McMurry and Gary Janacek have taken up the slack. Juniors Mike Pearson and Phil Patten; and sophomore Bob Golden are the starting team. Juniors Frank Janacek and Mark Chitjian have the backup personnel, a team that also includes seniors Steve Schneider, Bob Goodrich, Dave Howard, and Utahman Tom Heer. Glenn Siger is a junior transfer from Whitman who will be ineligible until January 19. A good shooter and excellent ball handler, Glenn will play an integral part on the team, perhaps taking on one of the starting guard spots.

The season opened in the same manner that it always does. Cal Baptist made the most of Caltech's inability to break the full court press and their willingness to turn the ball over, and handed the Beavers an 81-41 defeat. McMurry and Tornquist had 14 points apiece. Tornquist, who is perhaps the best free throw shooter in the league, made 8 of 8 from the line. Against SCC, Caltech played the role of a 60 point underdog. When the Lancers scored 18 straight points to take a 22-4 lead it looked like the massacre was on. But the Techers played an incredible game in the second half, behind the shooting of Pat McMurry. The Beavers, trailing by 27 at halftime, were within 18 points with three minutes to go before Southern Cal scored five straight buckets and won 91-62. McMurry led all scorers with 27 points and Frank Janacek added 10.

Perhaps the failure to practice over the Thanksgiving holidays caused the team to suffer a relapse of turnoveritis as the team dropped a 101-51 decision to L.A. Baptist on Tuesday. It looked like the fans were in for a tight game as the Beavers bottled up the LABC shooters. The Caltech offense looked great for the first four minutes and then they started giving the ball and the game to the Mustangs, as they totalled 34 turnovers. Gary Tornquist had 13 points, Frank Janacek scored 9, and Mike Pearson had 8 points and two technical fouls, tying him for the team lead with coach Poizer who also has two technicals for the year.

The Beavers have their home opener tonight against Life Bible College. The game starts at 8:00 in the Caltech gym.

Beavers Hit With No Holds Barred

by Tim Brazy

The Caltech wrestling team began their regular season this Monday, November 25, losing to Cal State L.A., 24-21. Caltech showed surprising strength and skill, winning five of the four matches.

The meet started with both Yang Lim and Paul Belvoir losing their matches by falls in the 126-pound and 134-pound classes. With the score 12-0 Caltech came back with two pins by Mike Ammon and Bob Shoemaker. Paul Gillespie in the 158-pound class, eventually winning by a decision. Caltech then had its first pin, Bob Darin Casey won by a forfeit. The final match was in the 182-pound class. Unfortunately, Pete Rodriguez was injured, and the score was tied 8-8 over Cal State. Cal State won the meet, however, on a final Caltech technical decision in the unlisted weight class.

Although Caltech lost the meet, they do have a lot going for them this season. Enthusiasm, talent, and hard work are all in evidence in the team's squad, and they should be able to be a winning combination.

The Catch

The sole judges of what is and is not a bug and of who has made first claim to same shall be the committee of 5 Tech EE's (the good news) that designed the CIT-101 (the bad news).

The Prize

Up to $2500.00 cash just for finding bugs!!!

TECHNICAL MAGIC will pay one hundred dollars ($100.00) for each and every valid bug uncovered (up to $2500.00) in our CIT-101 Video Data Terminal.

The Goal

Be the first to find and document a particular bug in our CIT-101 Video Data Terminal and we want to make sure it's the best. So before we commit to making our CIT-101 Data Terminal, or the CIT-101 Bug Hunt for each and every valid bug uncovered (up to $2500.00) in our CIT-101 Video Data Terminal.

The Details

Manuals and specifications, as well as a working and on-line terminal and procedures for reporting bugs, will be available starting today and until this contest closes. This contest is open to all members of the CIT-101 Community, but is primarily aimed at undergraduates. In the event that there are multiple entries for the same bug, only the first entry received will qualify. Direct all inquiries, technical and contest related, to Ted Michon, Jim McBeath, or Gregg Bone at 714-556-2380. Enter as often as you like (they once said), but this contest ends at 12:00 noon on Monday, December 15, 1980. All prizes will be awarded within 10 days of contract close.

The Catch

Soccer

Practices for the women's soccer team will be 5 days a week from 4-6 pm and start in January. An organizational meeting was held last week; if you are interested in playing and didn't get a note for the meeting, please contact Sue Futts (leave a note in the Fleming OC box) or the Athletic office.

\[ \text{STOMP BUGS!!} \]

\[ \text{The Great CIT-101 Bug Hunt} \]

\[ \text{The Prize} \]

\[ \text{Up to $2500.00 cash just for finding bugs!!} \]

\[ \text{TECHNICAL MAGIC will pay one hundred dollars ($100.00) for each and every valid bug uncovered (up to $2500.00) in our CIT-101 Video Data Terminal.} \]

\[ \text{The Goal} \]

\[ \text{Be the first to find and document a particular bug in our CIT-101 Video Data Terminal and you win $100.00 cash. The CIT-101 is a plug-compatible replacement (with added features) for the DEC VT100 and we want to make sure it's the best. So before we commit to making our CIT-101 Data Terminal, or the CIT-101 Bug Hunt for each and every valid bug uncovered (up to $2500.00) in our CIT-101 Video Data Terminal.} \]

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you need relativistic mechanics to derive it—orange refers to modifications in the equations required by special relativ- 

—yellow chalk means E=Mc2 

—green chalk means that I don't think you understand the mathematics involved. I've never had a class in the subject, and I'm not going to.