Interhouse Carried Out With Much Vim

Mud slinger and Junior Class President Fred Vachss is finally stunned into the billowing quagmire at the conclusion of this years fearsome Mudeo. More for Mudeo fun, see page 5.

By J. R. Frosh

Frosh Make Mud Pies

Keeping up a yeartoold tradition, the froshmen grounded the sophomores in last Sunday's Mudeo, 5-2. The frosh frolicers at first, came back to sweep the last crucial points from the sophomores.

The air temperature was about sixty degrees and the mud was about the same as the cosmos, or rather, rock. The frosh frolicers hit, exhibiting mass quantities of enthusiasm, were slowly dragged under by the Sops in the long of war, 1-0.

The frosh turned the race, worth one point, it consisted of both teams' trying to go through the pit in large sacks. The winner was the team whose members all made it to the other hand first. Many innovative (bordering on perverse) techniques were employed, such as the thrustandgrunt method. In the end, though, the Sops prevailed, ramming as many Frosh into the quagmire.

After a brief delay to freshen the brown colloidal suspension, the wheelbarrow race occurred, worth one point. As advertised, the sophomore techs had the chance to examine the mud closely (and possibly experience inhaling same). The tide turned as the Frosh, who really understood this race, won handily.

Chicken-fighting was the next event, a two-pointer. The gift of this contest was to keep as many of one team's horses and riders standing while disemboweling as many of the opponents as possible. Some of the consistencies that these people went through would be hard to describe without advanced topology and the Frosh, being naturally limber in their element, crushed the Sops.

The last event (finally, as the mud neared the freezing point) was the tire spree, worth two points. This would determine the overall winner. The point of this exercise was to

Solar Ch Is Hot Stuff

by Doug MacKenzie

Solar chemistry was the subject of a free illustrated lecture for high school students last Wednesday in the Baxter Lecture Hall. Dr. Harry B. Gray, who specializes in this field, presented the topic and kept the talk lively and informal.

Gray (who didn't dress up in a costume as he often does) started off by giving a comparison of the energy sources in 1975 and the projected energy sources of the year 2000. Five years ago, 94% of the U.S. energy was from fossil fuels with nuclear and hydroelectric energy contributing 3% each. Solarchemistry provides about 0.1% now and optimistically may provide 1 to 2% by the turn of the century.

He continued by stating that there are basically three types of solar energy. The first turns light directly into heat, such as with the upholstery of a car becoming hot in the sun.

The humanitys department is adding four new courses for the next terms.

Lit 108 sec 2. R. Splitter, Creative Writing. This course will be taught as a fiction writing class instead of the normal poetry writing class.

H 161 sec 1. A. Rose, American Religious History. This course will explore the major religious movements in U.S. history and set them in a social context.

H 161 sec 2. M. Ridge, American Biography. This course will explore the major methods of American biographical writing. Prof. Ridge is a member of the Huntington Library staff and has just joined the Caltech faculty.
EDITORIAL

The orthodox line one hears when questioning the merit of an academic institution is that every university has its share of excellent professors, and its lot of abysmal ones. This attitude, however, does nothing to alleviate a potentially bad situation, and students will continue to feel confused and angry when they are "screwed" by unjust grading policies and worthless instructors. Consequently, it is an institutional size of Caltech, the student body is acutely aware of which professors are terrible, and these people become the focus of a great deal of negative thought (witness the triple turkeys in the TQFR).

Curiously enough, one's gut-level reaction to a particularly callous professor is often stronger than the situation warrants. This is because when one is repulsed by a person, one is expressing a certain disgust at an aspect of the self that he or she wishes to hide or to destroy. People see themselves reflected in those around them, and their likes and dislikes are predicated on their internal conflicts and harmonies. For the most part, this is an unconscious process, because as soon as one has identified a troubling feature of one's personality (having in a sense, named it), one has made the first step in overcoming that aspect. Likewise one will endeavor to cultivate one's positive tendencies. The goal of an individual's identity struggle is to recognize the currents of the mind.

There is a class of spiritual entity that enables people to do just that, and such beings are known as Tor, more commonly, "Devil's Advocates." The Devil's Advocate is a crucially important role within the spiritual realm in the guise of a human who makes it a practice to do bad works and in doing so, it becomes the focal point of negative thought. Its purpose in this is twofold. As a focus of negative thought or energy, the Devil's Advocate diverts this sort of force away from spiritually weaker beings (such as humans), who might be damaged by the crossfire. Of more import and relevance to Caltech, though, is the primary role of these entities. By behaving despicably and summoning up the baser emotions in

IMMIGRATION ATTORNEY
Stuart I. Folsky
2459 Mission Road
San Marino
Phone: 799-0651

By Stuart Goodnick

LETTERS
The Key Problem

To the Editor:
The recent article in the California Tech quotes me accurately, but in the context, it appears that the turkeys prematurely given the triple-turkey award of the year, I would like to point out that when negative opinions on the security problem. I do not object to a responsible person posting a sign indicating that access is closed to a key, but I do object to 500 or even 200 persons carrying a master key that is not necessary to open the doors that they are. It is not a matter of trust, it is a matter of security. It is possible for us to have many keys in circulation without some being wrongly held by someone not worthy of such trust and without some being lost. A number of Central campus master keys come into my possession regularly due to their loss in the vicinity of Steele Laboratory. Since I am not even the appropriate recipient of a key when found, and since the Steele area is a small part of our neighborhood, the total number of keys that must be very large. These keys are readily recognizable as masters even to a person unacquainted with the details of the security lock system. This leads to the conclusion that at least as soon as one has identified a troubling feature of one's personality, one has made the first step in overcoming that aspect. Likewise one will endeavor to cultivate one's positive tendencies. The goal of an individual's identity struggle is to recognize the currents of the mind.

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THE CALTECH Y TWO
fly-by

Today, Friday, November 14, P. Pat Productions brings to you one of our annual FLAT OUT CONCERT. This feature of an evening will include Blue Guitar, a modern jazz band. So come out to the Quad and enjoy the music.

Monday, November 17, there will be an EVENING PANEL DISCUSSION. The topic will be the "Lies of Modern Moral" with Vic Veysey and Reverend Al Cohen. A reception will take place in the Student Union from 5:30-6:00 P.M.呷

Wednesday, November 19, is the day for an EVENING MORAL DISCUSSION. This week's speaker is Dr. Derek Fender, his topic will be "Localization with Veysey and Reverent Al Cohen. A reception will take place in the Student Union from 5:30-6:00 P.M.

Thursday, November 20: The Y presents an EVENING MORAL DISCUSSION on the topic of "The Wes and Winnet." A reception will follow the discussion beginning at 7:30 P.M. in Clubroom One.

Saturday, November 22: The Y is sponsoring a trip to the J. Paul Getty Museum. Uncle Mike will once again lead this event. It will leave at 10 A.M. behind the dorms and return at 4 P.M. The cost is $10.00 per person, $5.00 per student, $100.00 for the tour is free (bring money for lunch).

Friday, November 14, 1980

THE CALIFORNIA TECH
Since I began writing this column, most of the feminists at Caltech have called me on my overt sexism. As you may recall, my first piece was on chasing girls, and brought me sufficient infamy to provoke the eds. to brand my column "Cherchez la femme" for all time. Last week, I went intoinserted rather less delicately in cheek. I wrote about the feminizing of Caltech women by academic forces. Having been so thoroughly called to account for my opinions, I thought it might interest the community to find out what lies in the mind and heart of a hard-core sexist.

I wasn't always proud of being a sexist. I even used to think women were just like men inside. When I got inside and took a look around, I was embarrassed to think it wasn't so. I hid my feelings from others for a long time, although I realized I was actually repressing my most important feelings. I was a classic closet sexist.

I women are basically and of their deepest nature different than men. I think of life. The difference can't be pinned down very precisely, of course. That would put our best poets out of work. Still, I find myself compulsively drawn to the feminine aspects of life, all the more so at a very male-oriented school. It seems dreary as duchess without a prince.

I'd like to point out to my female friends, those few who I think the true colors of masculinity and femininity. Although I am not an ancient Chinese, I will attempt to convey a rough translation. This will serve to root my biases in time-tested wisdom.

In my copy of the I Ching, Yang is connected with male, firm, strong, active and light. Likewise Yin is associated with female, yielding, weak, passive, and dark. These sound suspiciously like the categories feminists abhor. Is the wisdom of the ancients outdated? Will a new order of women, strong and active, soon rule over passive, yielding men? Or will the inner nature of man and woman change so that they are truly equal in all ways? I don't think so.

I don't want to short the feminists. All women have a basic right to be respected, to make great progress toward achieving recognition for their talents, and much more is yet to be gained.

Equality is another issue entirely, and one which I suspect won't be realized until genetic engineering makes further advances. Women will not achieve their rights by trying to be men or by trying to beat men at men's games. A feminine woman is at a strong disadvantage in this country because she sets the rules men will play by. A masculine woman rarely gets ahead. That's just the way it is.

Furthermore, I feel the application of Yin and Yang to humankind is widely appreciated and embraced by Americans everywhere. Our movies are full of husky headstrong men and supportive sensitive women. We can't ask producers to change their archetypes—we chose them in the first place. Romance ideals die very hard, or perhaps they can never die at all. America was built by husky headstrong men, each with a strong woman standing behind him. So, I imagine, was Jericho.

Let me put all this back in to a Caltech perspective before I go. Masculinity and femininity are rather maligned commodities here, and unjustly so. If you just want to be a drab nonentity, neuter yourself is the only merciful thing to do. If you'd like to lead a semblance of a happy, healthy, balanced life while you're here, live dangerously and well. Don't dream it, be it.

And what I said about chasing still holds. Especially for you women. Dare to be as beautiful as you are. And don't look back—know there'll be someone there to chase you. No sweat. Remember who makes the rules....

—Chuck Nichols

Munger
To Speak On Africa

(CNB)—The Friends of Caltech Libraries will meet at 11:45 am on Friday, November 21, in the Athenaeum on campus to hear Dr. Ned Munger speak on "Fiction and Race in South Africa."

Munger, who is professor of geography at the Institute and a leading American authority on Africa, has recently returned from his 52nd visit to that continent, where he has many writer friends. Among the authors he will discuss, whose books have had an impact on race relations in South Africa, are Alan Paton, Doris Lessing, Ezekiel Maphelele, Mary Renault, Nadine Gordimer, Andre Brink, and Poppy Ngomeno.

Munger himself has published eight books and more than 100 articles, and he maintains his own personal Africana Library of 27,000 volumes at the Institute. He is also the author of two-as-yet unpublished novels.

The Friends' November 21 luncheon-lecture is open to the public as well as to members. Reservations are required. The cost per person is $7.50. For information, phone 795-6811, ext. 2411.

Happy Birthday Grace
Sinful Performance

The average person at a movie will manage to enjoy the film even if it has many faults. He'll put up with poor acting, minor plot inconsistencies, bad cinematography, and shallow characterizations. About the only thing he won't tolerate is a slow-paced, boring movie. Unfortunately, all The First Deadly Sin has to offer is boredom.

If you're thinking of going to see this movie because you like blood and gore and psychotic killers, don't go. There's not much blood and the killer is just a caricature.

If you're tempted to see it because you like Faye Dunaway, don't go. She's in about five minutes of the film, and has approximately twenty words to say.

If you want to see this movie because you like mysteries, don't go. There is no mystery in this film. The killer is known from the start of the film.

If you're thinking of going to see The First Deadly Sin because you like Frank Sinatra, don't go. You'd do a lot better to try and catch him in From Here to Eternity on the late show on television. This is probably his worst performance as an actor. He never seems to know how to play the character, which is interesting since he also directed the movie.

There might be some reason to see The First Deadly Sin, but I can't think of it. Pass this movie by, and use your four bucks for something better.

—Lisa Grenier

Solar Chem

From one

The problem with this is that this energy can't be stored. The second method tries to form electricity from light with solar cells. This method also has the problem in that it is hard to store the energy produced. The third method, which is the one Gray is working on, uses the light to help turn water into fuel, namely hydrogen. The problem with splitting water is to find a molecule that will help absorb sunlight into a water solution and thereby help the reaction proceed. The molecule must also be a catalyst in that it must not be changed by the completion of the reaction.

MIT and other schools are working with semiconductor electrodes while schools including North Carolina, Brookhaven, and Strauborg are trying to use platinum and a molecule containing ruthenium as a catalyst. Gray's group is working with a rhodium molecule that looks promising. There are three major problems with this catalyst though. The first is that it is inefficient; only 4% of the photons used help produce hydrogen. The second is that rhodium costs $2000 an ounce.

Gray closed by noting a molecule that could be a new catalyst: a molybdenum complex that is now being worked on by Andy Maverick. It may be used with a parakainic derivative as one of the catalysts to try and produce the much needed hydrogen.

Gray's talk was the second in a series of science lectures for secondary school students given this year at Caltech.

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Visit Willoughby's for a great meal anytime. During the week, call 795-5211 for reservations.
When I came here as a fresh, I immediately felt the smallness of the campus. It was quite unlike the University of California—where administration could not care less whether a student lived or died. Caltech's freshman class of 1953, although its current design was completed in 1974, modeled after a Roman villa, the Museum holds valuable collections reflecting the millionaire's taste: Greek and Roman Antiquities, Renaissance and Baroque Painting, and French Decorative Art.

Interested persons should sign up by Thursday, November 20. Once again, we have 25 spaces on a first-come, first-served basis. The schedule for the day will be as follows:

10:30 am—Docent tour of classical antiquities (free).
12:00 noon—Lunch in Tea Room.
1:00 pm—General browsing through Museum and Bookstore.
3:00 pm—Back to Pasadena.

There is no cost for the entire day with the exception of lunch ($2—4) at the Tea Room—a requirement since the Museum does not allow bag lunches. You may also wish to make a purchase at the Museum bookstore. Photography is allowed, but flashbulbs are not. You are also requested to use the transportation provided by the Caltech Y, since the Getty Museum requires parking reservations.

So hurry, don't wait... call the Y at x2163 or go on up and sign up yourself.

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Tour the Getty

By Mike Meyer

For all you culture vultures out there, the Caltech Y is pleased to announce a trip to the J. Paul Getty Museum in Malibu on Saturday, November 22. We have 25 spaces for students, faculty, and staff who are interested in touring this unique museum. The J. Paul Getty Museum was established in 1953, although its current design was completed in 1974. Modeled after a Roman villa, the Museum holds valuable collections reflecting the millionaire’s taste: Greek and Roman Antiquities, Renaissance and Baroque Painting, and French Decorative Art.

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The powers that be come through with another excellent, but slimy Madeso.
Motivation: the drive, energy and desire to accomplish something. This miracle ingredient, in the proper quantities, is responsible for both the completion of day-in/day-out work and also exceptional flashes of greatness that stand out from the ordinary.

Motivation: an element of life which is often thought to be in short supply or altogether non-existent in the vicinity of the student body, witness the number of people laying around on floors or other places of low energy, wanting to get up and get out of the hole that classes have put them in. See a number of people attempting to alter their motiva- tional quotient, either to increase their will or to sap it (with undoubtedly pleasant side effects) through chemical technology. Hear a continual grumbling from the student body, as with a large number of hungry bellies, while each student ponders why he or she isn't motivated as much as he or she used to be.

Motivation: the driving force behind possibly every prank, RF, and crazy stunt that is an integral part of Caltech: bonfires, stacks, climbing buildings, you name it. The casual onlooker would probably tell me that Caltech is just bursting with motivation. And they'd probably be right.

Paradox: a seeming contradiction. Why is it that, in the midst of cries about lack of motivation, incredible amounts of the stuff must be laying around campus? Tentative answer: motivation is where you find it.

In keeping with the above ramblings, I would like to pose some basic theorems about motivation:

First Theorem: Motivation is conserved. In a closed environment, dM/dt = 0. After a while, students are often conditioned to complete apathy in regard to studies, attending lectures, etc., while simultaneously engineering the latest in a series of RF's. This leads one to believe that motivation is simple, direction as well as magnitude.

Second Theorem: Motivating factors are specific to individuals. A piece of cheese made Algren the mouse run a maze; it wouldn't do much to convince me to do the same.

Third Theorem: Motivating factors are specific to individuals. A piece of cheese made Algren the mouse run a maze; it wouldn't do much to convince me to do the same.

Fourth Theorem: If you've read this far, you are definitely motivated.

See you next week. Meanwhile, go to sleep. By C.R.G.

Spontaneity! What a simple word, a hold that words wonder and marvel as a baby's first breath or man's first step on the moon. Inside everyone is that little kid who wants to ride a bike fast, play hookie, or go to Disneyland. Because you lack spontaneity? No, it's not because you have a terrible voice, it's because you lack spontaneity. It's not because you thought the people sitting around would think you'd lost your mind. And it's certainly not because you forgot the lyrics.

Spontaneity: a feeling...produced without being planned...without deliberation...lack of prompting, acting unconsciously as or as if by instinct.

You've got to start doing things that you want to do, with out thinking about all the results. Do because you want to. Because you really want to. What would you like to do right now? Nothing complicated, just something you enjoyed when you were really young. Now do it. Just like that. Simple isn't it? No, don't think about all the things you should be doing instead. If you think hard enough, you can convince yourself of anything, to go, to stay. But that's just it, you shouldn't have to convince yourself to go or to do it.

Spontaneous: Proceeding from natural feeling...produced without being planted...without deliberation...lack of prompting, acting unconsciously as or as if by instinct.

You've got to start doing things that you want to do! The reason for the book is saving you from the trap of always thinking of doing something that you don't want to do. If you think hard enough, you can convince yourself of anything, to go, to stay. But that's just it, you shouldn't have to convince yourself to go or to do it.

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Some of the finest engineers and scientists in the world work for the Aerospace Corporation. In fact, over half of our technical staff holds an advanced degree. One in four holds a Ph.D. This could be your chance to join these people in shaping America's space program. If you have (or soon will have) a degree in Engineering, Science or Computer Science, we would like to talk to you on campus.

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THE CALIFORNIA TECH

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Christopher Robin

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Cross Country Finishes Up Its Fine Season

By Gordo

The cross country team finished up its season at the annual NAIA District 3 Championships at Biola last Saturday. In the Men's Championship, Caltech ran sixth among the eight competing schools (there are 20 schools in the NAIA District 3). True to form, Karl Clausing ran first for Tech, taking 11th place overall, the first All-District performance by a Caltech runner since Greg Griffin did it in the early 1970's. Second for Caltech was Eric Korevaar, who cut 1:12 off his course time in the last race of his distinguished cross country career. In third was the rejuvenated Vince Cammarata, running his best race since the Pomona dual meet. Just four seconds behind Vince was Steve Stahl, running in his first race of the season, after a two-month-long knee problem. Fifth in scoring for Tech was Bob Murphy, who came on like wildfire at the season's end. Shawn Larsen ran sixth, completing an excellent season for himself. Paul Eskridge rounded out Caltech's varsity squad in seventh. Point Loma was again, district champ, and will go to NAIA Nationals, as will the one Cal Lutheran and three Azusa Pacific runners who were among the top seven. Caltech did achieve some measure of revenge by defeating Redlands, who had beaten us in a dual meet and at SCIAC this season.

Caltech had two runners in the Women's Invitational, held before the men's race. In seventh place overall was Karen Close, thus being, if unofficially, on this year's District 3 first team. Carlotta Paulsen ran 15th overall, just missing second team honors. This was the first year for a Women's NAIA race, and there are plans for it to be a Championship meet instead of an Invitational in future years. Since Tech had only two runners, they took last (sixth) place by default.

Although the team did not do as well this year as it had in previous seasons, it was a good year in many ways. Those runners who managed to stay whole, healthy, and eligible all improved enormously. The nucleus has been created for a fine squad next year. With a little less bad luck than this year the team could be back as one of Caltech's few winners next season. This Saturday evening the team will have its annual awards banquet in the new Caltech Alumni House. Presentations will be made of the Paul Barthel Memorial Award for achievement, leadership and dedication, Most Improved Runner, and whatever other awards Coach Neal can come up with.

Chris Robbin

from six

there, I'll keep trying to get you out of your duffs and out enjoying yourself.

Why are you still sitting there? I mean really, you don't think for thought. Is it because you couldn't find anything you wanted to do? Maybe you didn't take me seriously, or you didn't take yourself seriously. For those of you who didn't understand at least the last paragraph meant and are still sitting there, read it again.

Still here? Boy, you must be slow. If a feather in the ear doesn't work, try it in the side of the head. Get off your butt and do it! You don't realize how little time you have on this rock! Get out, go places, do things. Don't always think about it first. You use too much of your time thinking already. Grab that girl and dance with her, jump in your car and go to Las Vegas. Snatch what book's been lying there; you've wanted to read it for weeks. It's not going to wait much longer. Life isn't going to wait. It's here now. Live it.

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**Comedy Hour**

If you like math, come to this year's first Math Department meeting. Dr. Brock Fuller will be giving a talk "Algebra, Analysis, and Topology: content for the soul of Kirchhoff's Theorem" at 7:30 in 351 Sloan, Tuesday, Nov. 18. All are invited and refreshments will be served.

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Over the years, the Caltech Y has presented a number of programs on science, religion, and psychology. Thursday, November 20 at 7:30 PM, we will be hosting another such discussion, the time with Wes Hershey, the Director of the Caltech YMCA after studying at the Yale Divinity School. During his thirty years here he started many of the programs that the Y continues to run today. Besides running the Y, Wes has also maintained a great deal of student interest in Psychology and Psychotherapy. Now retired, he is studying at the California Family Study Center, pursuing a masters degree in psychology. Wes will discuss Thursday about run-

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