



ist-in-Residence, James Boyk, will present a recital next Thursday night. See page three for details.

Photo by C.Wheeler

## Quantum Color Dynamics

# Gell-Mann on the Particle Zoo

by David Callaway  
Tech Staff Writer

A few men in the world can claim to be doing exactly what they want to do — entirely independent of the rest of the world. Murray Gell-Mann seems to be one of these, and, in a recent Watson Lecture, he gave a picture of what he does; in the process poking a little fun at himself and the game of elementary particle physics. Even Nobel laureates have a sense of humor.

"Everything is made of elementary particles — including us. . . . The study of these particles involves both theory and experiment. Both are necessary as experimenters often find something that a theoretician would not have dreamt of

but theoreticians are needed to explain various phenomena. The whole thing started when Dirac came up with his famous equation in 1928, which he said explained most of physics and the whole of chemistry. Actually, modern physics is based on three ideas, quantum mechanics, relativity, and causality, a principle, unlike quantum mechanics, which we use in everyday life.

"About all you will hear from most nuclear physicists is that nuclei are made of neutrons and protons. Most texts will tell you that neutrons and protons are elementary particles, however, like most things, this idea is wrong. We now know they are composed of quarks, from the excited energy levels and structure they show.

"For instance, the neutron can be made of one u quark, of charge  $+2/3$ , and two d quarks, of charge  $-1/3$ . Similarly, the proton can be made of one d quark and two u quarks. The u and d or up and down are called flavors of quarks. This has no relation whatsoever, of course, to actual flavors.

"Another distinguishing characteristic of quarks is color

continued on page five

## Announcements Vital to Your Well-Being

Remember: the financial aid deadline this year is May 3. Unlike past years, if you miss the deadline, you'll definitely be out of luck, as funds are limited. Get your PCS in, or at least contact the financial aid office by then.

For them what cares, the old (and now enforced) parking rules for the Olive Walk are: No parking day, night or weekends. 30 minute loading and unloading is permitted.

This is, more or less, what the existing rules (drawn up five years ago) already state. Anyone interested in reviving the ad hoc committee which made these rules should contact me in Dabney 21.

Ed Bielecki  
ASCIT President

## Real Fine Lecture

by Gregg Brown  
Tech Staff Writer

The dynamic and amusing lecture of Huttenback and his friends showed slides and told stories of famous R.F.'s and antics of the past in Winnett last Wednesday.

Some of the recounted feats were truly monumental, such as climbing the cornerstone of Millikan upside down (i.e. 1961) and stealing an Air Force ROTC jacket from the Olive Walk and putting it in front of the Air Force Commander's house. Others, while less mighty, had almost as large an effect; a few ill-placed detour signs led

traffic from San Pasqual all over campus when that street was still open to the public.

Nostalgia ran rampant and some wise words about avoiding pranks that will later require extensive explanation to the FBI were handed down by Huttenback. The whole thing ended with Winnett being stacked in and some idiot, who I unfortunately couldn't see, heroically trying to knock the door down. The stack gave way before the door or the idiot did, so little damage was done.

A final note to planners on new horizons for R.F.'s: *an R.F. must be divinely inspired!*

## IHC is Sphinx

by Mike Frisch  
Tech Staff Writer

The IHC, charged with speaking for undergrads on food service selection, arrived at a commendation Wednesday night and postponed the question of announcing its views until next week. No reasons for the decision will be discussed whenever it is released, leaving the IHC's motives open to all types of speculation (divine intuition? blackmail?). The only official comment was made by IHC secretary Rich Feldman, who said that any information would be released through proper channels — not through *The California Tech* — and that the IHC decision was non-binding in any case.

Before the meeting was closed for food service selection, however, the IHC courageously discussed — in public (!) — other burning issues of the day. A complaint was made about the pile of human excrement left on a pool table in the ASCIT gameroom (replete with cue ball plopped on top). No action was taken. Cindy Duckert is still looking for volunteers for the Health Center Committee. Also, contrary to the impressions of some, Olive Walk parking rules are being enforced. Tickets are being issued and cars have been towed.

Next Week: to tell or not to tell!

## Women No Longer Guaranteed On-Campus Housing

# Sex Discrimination Examined

by Joe Esker  
Tech Staff Writer

In a recent interview with Lyman Bonner, the Director of Student Relations, a statement by the administration concerning sex discrimination on campus was publicly disclosed. This is in response to a piece of legislation known as "Title IX of the Education Amendments of 1972", but more directly to a 1975 publication that outlined the details of Title IX. The action presently being taken is, in the words of the official release, "A detailed self-examination of our current policies and practices", eventually leading to the revamping of any unlawful practices.

Dr. Bonner cited the girls' locker room issue and the present operation of the Glee Club as the only "sexist" practices now being condoned by the Institute. However, the locker room situation has not been solved due only to a lack of suggestions as to what action to take, rather than because of a lack of consideration. The Glee Club, however, is a matter of technicality rather than practicality. The law prohibits a separation into Men's and Women's Glee Clubs, but at the same time provides for the choosing of members as being up to the director, who knows the

needs of the groups. So in effect, he is not bound by this law, since he can decide he wants all bass or all tenor, or whatever, voices. The regulations provide for his freely choosing ranges and pitches, as long as he allows any person to try out for any spot.

One other policy that will have to change is the priority assignments of students to on-campus housing. In the past all women were guaranteed on-campus housing if their applications met the deadline. This is mostly due to the pressure from the members of the student houses to get more women. With the enforcement now of Title IX, this will be thrown out. Women (and men) under age 18, however, will still be given priority, but other than this, women and men will be subject to the same rules or random chance that governs assignments to student housing.

One area which does not command much attention is the coverage by health insurance of pregnancy and pregnancy-related problems. The student health plan offers virtually no coverage, while staff coverage isn't too much better. The solution to this problem is not clear.

A recent concern on campus has been the sparseness of women in the professorial ranks,

with only two in the natural sciences. To this, Dr. Bonner commented, "The number of well-qualified women being produced by the (entire educational) system is small". So here, Caltech cannot be faulted, unless high standards are a poor policy.

On the lighter side of Title IX's interactions with Caltech the complexion of intercollegiate competition could change (but don't hold your breath). An institution is required to field coed teams in non-contact sports, and, if the demand is there, separate men's and women's teams in contact sports. Now, looking at Tech's football team (or, rather, its roughly twenty members), could you imagine outfitting a women's squad?

So, in all fairness, Institute policy is and has been in pretty close keeping with government regulations, and the extent of sex discrimination on campus is small. However, if you feel differently about this, then your comments are welcome. Undergrads should see either Dr. Bonner or Ray Owen in the Dean's Office. Grad students are invited to talk with Neal Pings in 336 Millikan. If you do have any complaints this is the only way they will be heard, since there will be no formal hearings to discuss the issues.

# Parry! Riposte!

The Editorial Page

## A Verdict of Sorts

The results of the Tech's survey concerning Baxter Art Gallery are back in and (with great probability of a heavily biased group of respondents) there is an overwhelming vote in favor of the Art Gallery. 41% go to all the exhibits and 40% go to as many as possible. 90% find the art exhibit important with 71% finding it as important an art form as music.

Now, and this makes writing this easy, I'll turn the floor over to all those who commented on the questionnaires: "A waste of my time. Dumb. Fewer exhibits of greater quality or variety might be better. Good for public relations. We can't be narrow minded. (Deleted) on Brown. Don't cut other important programs for this. Location poor. Does not invite "dropping in" - Baxter is like a maze. Doors frequently locked when they're supposed to be open. Very Nice. Worth the Effort to keep. One of the few things which keeps Caltech from being a cultural desert. Should be directly supported by the general budget. Smith was horrible to coordinate a show with! An (expletive deleted)! Don't close it. The gallery needs support, not interference from Brown and Christy. Let's face it, that octagon is no great statement about the future of mankind. It looked a lot better with the stop sign on it. Haven't missed an exhibit since I came here. Stimulating. Appreciated. Please keep it open somehow. Please don't close down one of the very few cultural spots left to us in this town. I'll miss it. I'm sorry I haven't seen more. Institute policy of non-support sucks rocks. Administration is probably right - from what I have observed and heard of the reactions of random trolls wandering through the gallery and the spectacular attendance levels (once as many as two besides myself at one time). interest in the general student body seems pretty low. I enjoy the art. Worthless pile of garbage. Don't abandon it. Overjoyed to see it close. Dull. Bad. Intrinsically good. Don't have the time. Very sad to see it closed. Do something. Surely there must be some way to keep the humanizing influence of the gallery in force."

Which brings us to the point. 63% of the respondents claimed that they would be upset enough to do something if the gallery were closed. The onus for keeping the gallery open is now on that 63%. If they were just airing idle threats of action, then the gallery will pass away. If they were serious, they should be able to overcome any obstacles before them. The future is in their hands.

Finally, a correction should be noted. The current show at Baxter is a display of the works of Lawton S. Parker as collected by Ron Woodlin.

Sandy McCorquodale

## THE ASCIT FRIDAY NIGHT MOVIE

# Paper Moon

7:30 p.m. & 9:30 p.m.  
in Baxter Lecture Hall

Admission: 50¢—ASCIT members and  
their guests; \$1.00—anyone else

NEXT WEEK

SILENT RUNNING

## Photocopying Law Livable

I would like to attempt a more systematic consideration of the impending photocopy bill than was presented in "Copying Nightmare" which appeared in the April 23 issue of the *Tech*. Let me emphasize that in the past I have used the xerox facilities extensively (I estimate approximately \$200/year) because I have found it personally convenient.

The article implied that prohibiting photocopying would so slow information gathering that the progress of science would be seriously impeded. Leaving aside the modest progress of science before the advent of wide-spread photocopying, the two most time-consuming tasks of information gathering are finding the relevant references, and reading and comprehending them, neither of which are facilitated by photocopying. Photocopying only gives one certain flexibility as to when and where the latter task may be pursued; a luxury which I would rapidly forego were my personal income involved. Indeed I suspect that I too often substitute xeroxing an article and storing it in my files

after a cursory reading for fully understanding the measurements and principles presented. And I find that only when I comprehend the article so well that I no longer need a copy, does that knowledge enter my usable store of information.

And when details are required, photocopies could be partly replaced by opening the library 24 hours every day (and at a fraction of the expense). For example the MBL library in Woods Hole is open around the clock and operates on the honor system! After all, a library is by definition a place containing books and other material for reading, study and reference—organized and maintained by a public group.

While it is true that the loss of interlibrary loan could only be partially offset by purchasing new journals with funds saved from no longer xeroxing, that too might have been possible consequences for science. I sometimes wonder whether the "pell-mell advancement of science" is one of quality or quantity of irrelevant and trivial data. Since libraries cannot afford to sub-

scribe to all journals, one might imagine competition between journals leading to higher standards of acceptance for publication.

Finally there are more important issues involved than our personal convenience. What copy rights really belong to publisher who print collections of other original work? How much should a few corporations profit for distributing information? which may be an inalienable right itself?

Whatever the outcome of the photocopy bill in the legislature I intend to use the xero facilities with more awareness and restraint in the future.

David Armstrong  
Graduate Student  
Biolog

## Kudos

To Lewis Hashimoto:

I want to thank you for son of the most sensitive film review I've seen anywhere. For instance you were the only reviewer read that had criticism of *Crash and Whispers*, a film which made me very angry. I am tired of Ingmar Bergman's sick hatred of women, indeed humanity. Last week you mentioned *Birth of a Nation* ought to be a gas, you're not black. Thank you for your independence. You don't repeat what others have said.

—Margaret Ka

## Pseudonym Use Decried

Dear Sirs:

In order to further the improvement of the *Tech*, I would like to make the following suggestion: do not allow the use of pen-names in signing news articles and columns. In the past, pseudonyms have been the source of problems for the editors (specifically C.Y. Achmet). The latest case of hiding views behind a pen-name, for those who are not up-to-date, is in connection with the column "Playa Brava", by Ngapuhi. It seems that he is misusing the space given him each week to present anything he wants to. I

was glad to see a large response to his irresponsible attitudes on abortion. I have always believed that if one was to present opinions, particularly in a public forum, he should be courageous enough to face public reaction and incur the consequences. If he is unwilling to do so, he doesn't deserve the right to publicize his views. I would appreciate the support of any others who feel as I do, so please tell an editor your opinion. Only then will things change.

Sincerely,

—Joe Esker

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## The CALIFORNIA Tech

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# Vazquez: Take 3

the Editors:  
I found it hard to believe that you would trouble yourselves to answer the second Vazquez letter especially after the first. This person's head is full of over-estimated rice.  
I mean, anyone who considers himself infallible, who expects others to readily give up their comfort to assure his, and who keeps the comics section under his arm while fixing breakfast to bid anyone from reading the comics before him, must be the product of some intestinal disturbance.

Memphis Correspondent of the Tech

## Life On The FM Radio

the Editors:  
You know, the real world isn't such a bad place after all, if you have the opportunity to do something you really want to do. This humble journalist is now the station manager for a real, live progressive rock non-commercial radio station.  
The station is WLYX, owned and living on the campus of Northwestern at Memphis, a reasonably sized Presbyterian liberal-arts college. But that is where the station's association with the school ends. The General Manager (my boss) is not a student (no one, including myself) and the staff is not necessarily students. There is no broadcasting class. Yet through the support of the Presbyterian church, believe it or not, and through support from our listeners, WLYX is one of the most respected radio stations in the area.  
The station has grown from a few watts on top of the school's tower, to three kilowatts of power from the top of a shiny 200 foot tower. We've added a subcarrier channel and are building up a reader service to the blind and print handicapped. Special receivers to decode the subcarrier are obtained by donations and provided to the handicapped. We've

He'll complain about anything. He'll complain about the buzzing of the fluorescent lights in his room. He'll complain about the maid not cleaning the room and then complain about the vacuum cleaner noise when she does clean. While playing tennis, he'll measure the height of the net every time two of his shots in a row fail to clear the net.

To put it briefly, Vazquez is a pile of equine dung. My sympathy to those who have had or will have the misfortune to meet him.

—N. Esquivel

also added a second FM station running ten watts with an easy listening format, WSWM.

My job really isn't that big. I'm mainly just a trouble-shooter, but I'm responsible for the actions of probably the largest on-air staff of any radio station in the state.

In order to support my habit, as it were, I am working as a transmitter engineer for a large AM top-40 rocker coupled with an FM automated classical station. The money is good, and while I'm on duty, I can build things for my station in their liberally equipped workshop.

Sound inviting? I suppose it would only be so for someone like me. I get a thrill from doing a show, and combined with the electronic tinkering possibilities, it's great. But it's not yet enough to draw me away from the clutches of the leading edge. I'll be back in September.

In the meantime, the Memphis correspondent for *The California Tech* is getting back into the music scene. And there are some new albums around that I'll be telling you about. (Cliche deleted)

—Mojo

197 N. Merton, Suite 22  
Memphis, Tennessee  
38112

## Boyk's Recital Oasis in the Uncultured Wasteland

James Boyk will be presenting a piano recital in Dabney Lounge next Thursday at 8:30 PM. Admission is free. Boyk is the artist in residence here, sponsored by the Master of Student Houses, the Director of Student Relations, and the Division of

Humanities and Social Sciences. He is a real, live professional concert pianist and the chance to see him banging away on the 88 in this cultural tundra known as Caltech should not be missed.

Boyk is also the instructor of the weekly interpretive perfor-

mance class where he comments on everything that happens between the time a musician picks up an unfamiliar piece of music to the time she or he presents a finished product to a public audience.

## Ngapuhi Wrong Again: Republicans on Skid Row

I suggest that "Ngapuhi" should check his facts more carefully before writing his editorials. In last week's Tech he claimed that the GOP has made significant gains in the western mountain states recently. This is not at all true. In the last two general elections, for example, Colorado voters replaced both of their right-wing Republican senators with liberal Democrats—namely, Floyd Haskell, who has earned a reputation as the Senate's premier environmentalist, and Gary Hart, the incisive and respected liberal who managed Sen. McGovern's presidential campaign. Coloradans also replaced incumbent GOP governor Vanderhoof with the Democrat Lamm in 1974, in direct

contradiction to "Ngapuhi's" assertion. That year, the GOP lost the governorship of Wyoming, and barely retained their Utah Senate seat in one of the closest of that election year, in a state which is widely regarded as one of the most conservative outside of the South. The republicans lost a net three congressional seats in Utah, Montana, Idaho, Nevada, Colorado, and Wyoming in 1974, and thus hold only four of the thirteen seats; these states have thus hardly "gone solidly Republican with Republicans gaining most of the Congressional seats," as claimed by "Ngapuhi."

Senator Stevens was quoted as saying that two of the seats which the Democrats are most

likely to lose are those of McGee of Wyoming and Montoya of New Mexico. Could it be merely coincidence that, according to the prestigious Americans for Democratic Action, McGee and Montoya are two of the three most conservative Northern Democratic senators? If they are defeated, good riddance! The biggest flaw in Stevens' and "Ngapuhi's" arguments, it seems to me, is that the GOP cannot fail to lost considerable ground after eight years of the anti-consumer, anti-minority, anti-environment, anti-labor, and anti-First, Fourth, and Fifth amendments philosophy of the Nixon-Ford administration.

—Chaz Schindwein

## The Los Angeles Times reported on Gallo Chablis Blanc:

"Brilliant white wine... worth twice the price."

## Harry Waugh, in Diary of a Winetaster:

"Good colour, a pleasant fragrant bouquet, an attractive flavour..."

## Newsday reported:

"Gallo makes an excellent Chablis Blanc that is an outstanding value..."



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# The Reason Why: Insight On Suicide

by Greenie

Tech Staff Writer

*"My mother was of the sky  
My father was of the earth  
And I am of the universe, and  
you know what it's worth  
'Cause I'm lonely, want to die  
Yes, I'm lonely, want to die  
If I ain't dead already  
Girl, you know the reason  
why..."*

The Beatles

Suicide is a topic which has fascinated philosophers, theologians, and ordinary people for centuries. Suicide is known in all societies, both primitive and modern, and on all socioeconomic levels. As Marika Kovacs, University of Pennsylvania researcher in suicidology told Techers last Wednesday, "Suicide is like the plague—it has no respect for class distinctions."

The official suicide rate for the United States is twelve per hundred-thousand population yearly; a fairly moderate figure

est among psychiatrists. Except among the very young, divorced, separated, and single people carry the highest risk; the opposite is true among young people.

Actual self-inflicted death is not the only form of suicidal behavior. Some studies show that perhaps as much as 25% of the population has seriously thought about suicide at some point in their lives. Unsuccessful attempts outnumber successful suicides by about twelve to one. In line with the idea that suicide attempts often represent desperate pleas for help, sociologists have found that suicide attempters form a different population than suicide completers. According to Ms Kovacs, the male:female ratio is three to one among successful suicides; among attempted suicides, the ratio is reversed. Attempters tend to be under thirty in age; completers tend to be over forty. The majority of attempts are made with "nonviolent" means, such as overdoses of medication; most successful

risk group with a 15-20% chance of killing themselves within five to seven years.

## Collegiate Deaths

Suicide is not especially prevalent among the college age group (17-22), the rate being seven to ten per hundred thousand. The rate becomes much higher at high pressure schools; studies at Harvard and Yale yield rates approaching fifteen per hundred thousand, a rate almost twice that of the age group as a whole. In England, a comparison of the suicide rates at Oxford and Cambridge with less prestigious schools such as the University of London gave a dif-

ference of a factor of twelve. In schools with a wide range of ability in the student body suicide is higher among those with more scholastic honors and high GPA's.

*"If you don't know  
ask him!"*

## Warning Signs

How can suicidal behavior be recognized before the fact? According to Ms Kovacs, there are a number of indications. A large number of potential suicides display a preoccupation with the subjects of death and suicide. Ms Kovacs feels that if someone starts talking about suicide, at-

tention should definitely be paid—"Talking about suicide is not like talking about Mozart." Future suicides often become interested in literature and articles about the subject; this is

Ms Kovacs feels that there are a number of dangerous myths commonly held about suicidal people. One is that people who talk about it never actually do it. This is quite untrue—she has found that 70% of suicides gave clues as to their intentions before the fact. People who dwell on death and suicide form a very high risk group, and she feels that it is important to recognize this fact, particularly in a community like Caltech. Another myth is that it is dangerous to mention suicide to depressed or unhappy people, for fear of "putting the idea into people's heads." Ms Kovacs feels very definitely that no one can be talked into suicide, but comes up with the idea on their own. Neither does suicidal behavior "run in families"; research has turned up no genetic or social basis for such an idea, except in the case of manic-depressives. According to Ms Kovacs, the most destructive myth of all is

*"Talking about suicide  
is not like talking  
about Mozart."*

especially indicative in people who do not read much normally. Ms Kovacs has found in the course of her research that most suicide attempts, successful or not, are preceded by changes in personal habits. Insomnia and loss of appetite are common. Older people often make wills, sometimes carefully hunting down insurance contracts with no suicide clauses. Younger people often start giving away prized possessions, quite often explaining that "I won't have any use for it any more," or "I won't be around to take care of it". According to Ms Kovacs, even such blatant communication of intent is often just turned off, because people are afraid to recognize it. Suicidal people are quite often alienated and lonely; depression is the most common symptom of suicidal behavior, although many people (particularly intellectuals) are too much out of touch with their

own feelings to recognize depression in themselves. Suicidal people tend to feel that they are unattractive, worthless, unloved failures or burdens upon others. They often experience impaired concentration and memory.

Ms Kovacs is quite definite about what to do if you suspect that someone is considering suicide. She suggests that you tell them that you feel worried about them, and that you ask them directly if they have suicide on their mind. She has found that suicidal people are often relieved to have a chance to talk about their feelings. She also feels that such people should be tactfully steered to professional sources of help, such as the psychological services in the Health Center, the 24-hour "hot line" of the Los Angeles suicide prevention center, or even just an understanding authority such as RA or UCC. Suicide attempts or threat should not be dismissed by saying "He just wants attention"—he certainly does, and he had better get it. Suicidal people need to know that someone cares and that they are not insignificant as they usually feel themselves to be. Depression is a temporary condition, and will lift with time; depressed people need to be made aware of this. A characteristic of many suicidal people is a feeling that things will never change, and that suicide is the only solution to their problems. They need to be made aware that in time things

will be different and that other solutions will present themselves.

At Caltech, since a large proportion of the students and faculty are shy, anti-social people, Ms Kovacs feels that great strides would be made if more social contact were initiated. However, she made pains to point out that greater "access to females might precipitate more problems than it solves". She feels it especially important to recognize when someone communicates a suicidal intention, and to feel free to inquire into their feelings. "If someone is behaving strangely, that is, more strangely than usual, try to steer them to someone who can help."

The most important thing in suicide prevention is recognition of the condition. And in the words of psychologist George Kelly, "If you don't know what's going on inside a person, as him!" The odds are that he'll tell you.

*"Suicide is like the  
plague—it has no respect"*

in comparison to Hungary's thirty-four per hundred-thousand. The accuracy of such figures must be questioned, however, in light of regional differences in the definition of suicide, as well as reporting of suicides as accidents (this often occurs out of "professional courtesy" towards physician-suicides, for insurance reasons, or out of consideration for the social stigma). The rate is also misleading in that wide variations exist among different age groups. Older people kill themselves at much higher rates than younger; professionals are more suicide prone than nonprofessionals. Among professionals, physicians have the highest rate, and among physicians, the problem is great-

suicides employ shooting, hanging, or jumping. This also follows the sex ratios for attempts and successful suicides; however, as Ms Kovacs pointed out, this is probably due to differences of accessibility of means.

Ms Kovacs made little remark on the controversy concerning the "actual suicidal intent" of attempters vs completers, other than to point out that research indicates that a high degree of ambivalence exists in the suicidal state of mind, and that often a very tiny factor is all that tips the balance between the conflicting desires to live and to die. She has found in her own work that people who have once attempted suicide form a high-

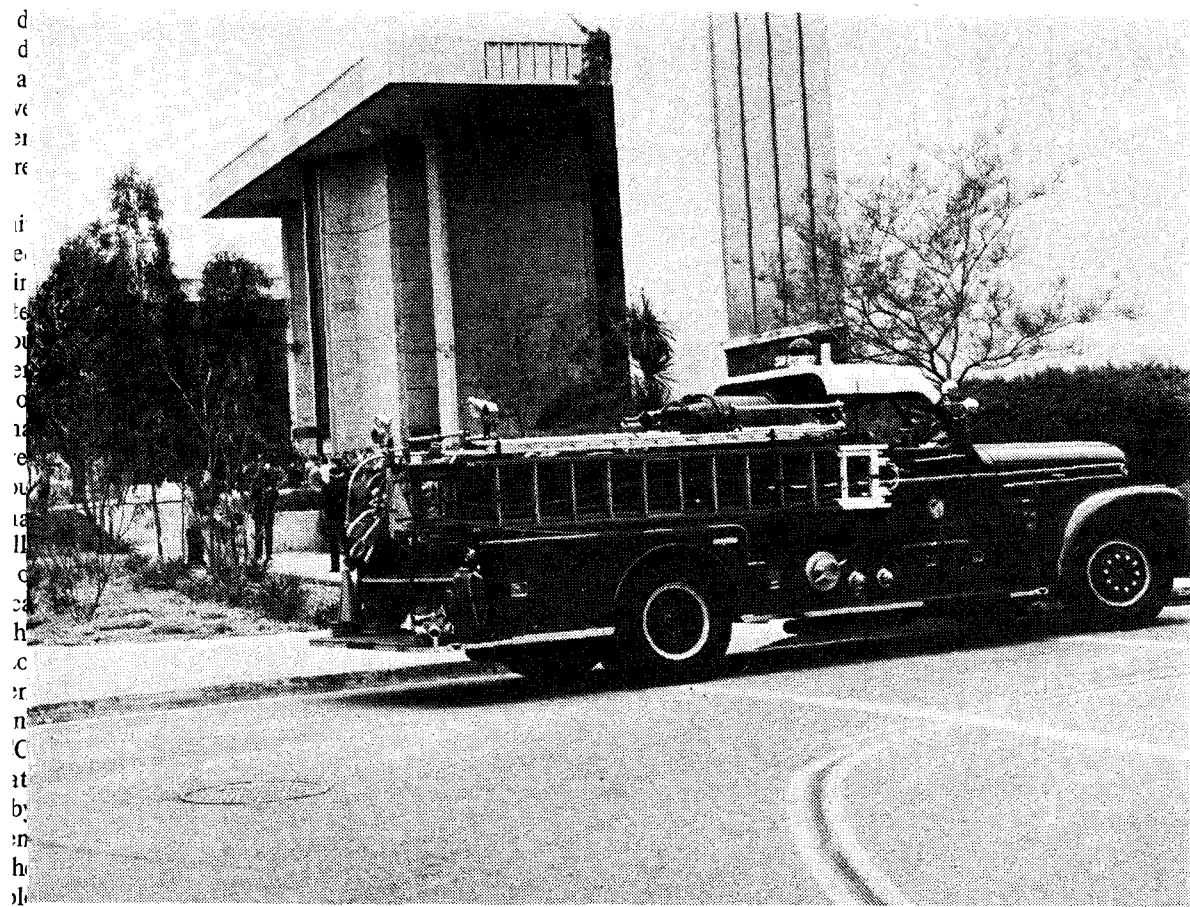
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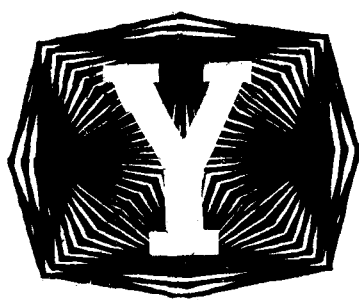
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axter took on the appearance of Fire Island during a false alarm this week.

Photo by D. Wheeler

CALTECH



Programs

The Caltech Y is located on the second floor of the Winnett Student Center above the *California Tech* offices, so if you aren't an asshole and would like to do something of service to your campus and yourself come up to the Y and get involved. Incidentally, the following programs of the week are brought to you by those smiling people with sparkling teeth:

Tuesday, May 4—Taras Kiceniuk, world-reknowned hang-gliding expert, is in the Y lounge at noon today to discuss low-speed aerodynamics and progress on his manpowered aircraft. Bring your lunch and get high with Taras as he describes what it's like to soar with the birds. As the song goes: "The answer is blowin' in the wind".

Thursday, May 6—An evening of very heavy discussion is in order at the Winnett Center beginning 7:30 p.m. as Marcus F. Franda, Indian expert and author of many books including the big hit: *Radical Politics in West Bengal*, talks about "Compulsory Sterilization in India". Everyone knows that forced vasectomies will be the fad of the future in underdeveloped nations as well as fascist Western democracies, so this is your opportunity to have a preview of things to come. Bring your girlfriend.

Miscellany: So far, as of April 26, no applications for the \$1,000 Paul Studenski Memorial Award have been received. What's the matter? A little free cash never hurt anyone. Deadline for applications is May 3.

—Robert Tajima

# Gell-Mann

continued from page one

We call the colors red, green and blue. Again this is just a way of labelling them. The neutron and proton are each made of one quark of each color, in such a way that the total color averages out. This is also true for excited states.

"Quarks are held together by exchange of quanta called gluons. Gluons couple to different quark flavors equally, they make no distinctions.

"We propose a definite quantum field theory—a quantum color dynamics—something like the already existing quantum electrodynamics. This needs a great deal more theoretical work, however. The big difference is that photons (which carry electrical interactions) carry no electrical charge while gluons, which carry color, are colorful.

"We have not yet solved the QCD equation for distances larger than a tenth of a picometer, but we think that color does not decrease for large distances. This means that colored quarks and colorful gluons are confined within white nuclear objects like neutrons and protons.

"Quarks and gluons cannot be directly detected—only indirectly. The nuclear force that binds the neutron and proton in the nucleus is the result of the basic quark-gluon QCD. The electron does not have color, hence doesn't feel the nuclear force, but it has flavor. Another flavor is the neutrino. Neutrinos feel neither the nuclear force nor the electromagnetic force. It can pass right through the earth with little probability of interacting. They do feel the weak force, though. The electromagnetic and weak forces are flavor forces.

unified scheme that embraces flavor and color—a grand scheme. Some theorists are now trying to include gravity as well, an idea that until a few years ago was done only by complete crackpots. We also know of different flavors—the muon neutrinos for example. As Rabi said, 'Who ordered them?'

"There are three possible answers to these dilemmæ:

"1) Are quarks and leptons composite too? There is no sign of this. They show no structure and, in any case, it is too early to ask this question. It's not likely to be the right answer for some time to come.

"2) Has nature chosen some elegant mathematical scheme that requires these large numbers of particles? If an overall theory is too succeed, it must have this character.

"3) Will some young scientists find a new way of looking at things that will make all of this obsolete?"

Be careful with fire:  
There are babes  
in the woods.



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Stogin-Stokin' Melvin J. Hinich lectured on Electoral College reform at a recent Y discussion.

Photo by C. Wheeler

## Yale College Summer Term

May 30—August 15

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# Cinematech Evening Cosmic

*Tung, The Blue Angel,  
The Princess Yang Kwei  
Fei, Paper Moon*

Any farther and we'd be in bed.

Cinematech is going to transmute white light to women this weekend. Come to Baxter Lecture Hall at 7:30 p.m. Saturday, the first day of many in May, and participate in the three part service: *Tung* by Bruce Baillie will precede *The Blue Angel* by Josef von Sternberg, with *The Princess Yang Kwei Fei* by Kenji Mizoguchi capping the ceremony. Any Caltech student who sincerely desires to study beautiful women will be invited for a dollar donation, which will go to further the cause. For the laughing sect, ASCIT has *Paper Moon*.

These are three very different views of women, beauty, and mystery with special, equally valid significance to each. Since the critical ramifications of such an enormous show are beyond the forum of this newspaper, I'll try to confine my comments to the individual films and let the audience register the parallels and contrasts in its own space. Don't miss this show, an evening cosmic in appeal and scope.

*Tung* is a 1966 film by Bruce Baillie, five minutes in length, longer in the image. It's Baillie's only silent film. It's a silent image of a friend named Tung, shot in black and white negative, with ephemeral color superimposed. It's a dance achieved at awakening but synaesthetic with the silence of sleep, fragile but deep simultaneously and real and fantastic superpositionally. Baillie is the most beloved independent filmmaker for his exquisite taste and transcendental sense of film. *Tung* suggests, beyond the woman the eastern spirit and movement and togetherness.

Sternberg's *Blue Angel* is his most (only) acclaimed picture. Sternberg is the mysterious man who made twenty-six well-produced films in a long career from 1925 to 1961. He was relentlessly disparaged for his efforts by the many critics insensitive to his pictorial view of filmic subjectivity. The public saw him either as a dastardly kraut or a European legend corrupted by Hollywood. In

truth, he was an American who by choice drew an aristocratic 'von' into his name, and was too much of a poet to withdraw the amendment. He did, however, make a film in Germany. This was *The Blue Angel*, made in 1930, in both English and German for the UFA-Paramount distributing conglomerate, at the request of the great classic German actor, Emil Jannings. While vindicating the 'von' in his name, the film brought him his greatest triumph critically, and ushered in a fresh target for vindictiveness by discovering Marlene Dietrich.

Dietrich portrays Lola Lola, the cabaret queen who destroys Jannings' schoolteacher by her icy existence. Sternberg supposedly discovered his star in a real world counterpart to the *Blue Angel* Cabaret. Nevertheless, his setting and characters belong to his idiosyncratic expression of the view that Woman masters Man thru her sexual charm. In *The Blue Angel*, the story is largely responsible for the impact of the ideas. The interesting aspects of Sternberg's art are present, if not dominant: the flow of tragedy in the plot is adapted to the pictorial element so that simply glimpsing the instantaneous patterns of black and white conveys the full meaning of the dramatic conflict. The order of the opening gives way to confusion and shabbiness and finally to a low-energy silence. Transcending this descent is the eternal Dietrich radiance, actually ennobled by the downfall of her husband. She represents foremost Sternberg's anti-romantic view of Woman as evil, but also brings forth numerous secondary images. Marlene is both Maria and Magdanele.

Mizoguchi agrees with this last unification of Woman as saviour and seducer. In *Princess Yang Kwei Fei* the title character is the world's most beautiful woman. By virtue of her purity, tragedy ensues and death is the solution she offers. This death has significance as both a negative result and as an ultimate transcendental escape from evil to love and beauty.

Mizoguchi was the most affecting of Japanese directors, and the only man to portray women with the elegant sweeps of tone common to painters. His portraits are marked by the use of longshots to convey a greatness to the influence of his subject with an attendant diminution of their brutish humanity. For Yang Kwei Fei, however, there are scintillating mobile visions of her splendor from near as well as distant points, and the gorgeous Machiko Kyo joins the set decorations in providing an inescapable feeling of beauty which sets up the power of the ideology which makes the film a work of art.

Mizoguchi made *Princess Yang Kwei Fei* in 1955 (he died in 1956) in Hong Kong for some highly commercially-oriented interests, in spectacular color. A Japanese cast plays Chinese characters in a classical story set in 8th century China, at the close of the T'ang Dynasty. Huan Tsung, the last great emperor of that distinguished dynasty, falls in love with the poor maiden Kwei-fei of the Yang family

## Pleasing the Palate

# Sparkling Italian Cuisine

by Batwing

Return with us now to those thrilling days of yesteryear, when you could go out to dinner without blowing a month's budget or limiting yourself to plastic french fries eaten under golden arches. Come with us now as we journey forth once again to find food for food's sake.

This time we go north to Colorado Blvd. and turn east for a few blocks, just past Allen. What we see is apparently a small shopping center, called Warner Plaza. Ignoring the enormous mattress store which dominates the scene (they taste terrible, anyway), we venture in and find a group of small storefront eateries. The one of significance (at least in this week's column) has a sign in front saying Sonny's Pizza.

The first time I ate at

while mourning his last lovely wife. Huan Tsung is a lover, of art as well as women, and his rule is usurped by the ambitious Yangs. The Yangs induce revolt against their rule, and the rebels kill off all the Yangs, including Kwei-fei. Huan Tsung is left a house prisoner lost without love.

The theme of death and transcendence runs unbounded through these films, joining the women at every smile. My principal comment on the ideas involved is expressed by Neal Cassady in a passage about his alcoholic father. "I asked him what the word 'kill' meant in the movie title 'Four Hours to Kill'. After an explanation that it meant to murder someone, there came to him the idea that it might mean to pass time. His mind, though quickly confused, must have known this to be right, yet perversely his nature felt obliged to filter through a haze of thoughts for a difficult third possibility which, although unfound in minutes of intense thinking, was believed better to be sought after than to risk a rash decision on one of the two

more likely meanings of the word."

\*\*\*\*\*

ASCIT is showing Bogdanovitch's *Paper Moon*, a contemporary comedy starring the highest paid father-daughter acting act in the land. This is a great work relative to the usual powerful dramas shown on Friday nights in Baxter for the 50 cent admission, originating in a very aware filmmaker's sense of cinemecomy which he developed through hours and years of watching Howard Hawks films. It is highly entertaining for most Americans no doubt, but fails to extend its premises to the levels the classicists managed. Or perhaps it just transcends our contemporary point of view.

Perhaps some people would prefer to attend the fascinating display of handpainted-on-the-film animation mysteries by George Melios screening over at Pasadena Filmforum at 54 S. Los Robles, at 8:00 p.m. Friday, the final eve of April. \$1 for students but more than twice the fun.

—Alan Saul

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# A Headline In Which We Exercise Restraint : An Inn That Does A Few Things Rather Well

In an age of diversification and trying to "please all of the people all of the time" it is refreshing to find an establishment dedicated to doing a few things well rather than a lot of things poorly. *The Golden Cock Inn*, Rosemead at Huntington, is one of these rare gems.

Upon entering the restaurant, one is immediately at home in the lounge, comfortably furnished in Late Wild West Posh. Large sofas ring a freestanding fireplace whose constant blaze gives warmth and tranquility to the room. Although one can often be seated immediately, it's

nice to sit around the fire and chat for awhile. The dining room is partitioned into several small modules which allow a more personal environment. The *carte* is indeed that, a card on the table listing the offerings of the house. The selection is good but limited to

the specialties of the house: chicken, steaks, and seafood. Various size steaks are available, as well as chicken *en brochette* or baked. Shrimp or scallops can be ordered individually or in ensemble with other things. An excellent sampler is the steak/chicken/scallop combination, which acquaints the first-timer with the house's expertise in these dishes. All the entrees include a tossed green salad, hot cheese bread (excellent), baked potato, creamed spinach, and onion rings.

The food is served in the Grand Manner. The salad is tossed and served at your table; the dressings are left for one to combine in any way one wants. The main course is served with great pomp: the meat arrives on a hibachi-grill and is flamed in front of the diner, then rapidly transferred to a heated plate. The enormous baked potatoes are brought forth, cut and opened on the spot, and served up. A generous quantity of creamed spinach is heaped onto the plate, followed by a mound of onion rings.

The quality of the food is excellent from start to finish. The salad is fresh, the dressings rich yet not overpowering. The hot cheese bread is just superb, although one is advised to eat it while it's hot. The chicken is juicy, tender, and coated with a delicate crust from the frying. The beef is of equal majesty as are the scallops. Few establishments dare to serve such enormous baked potatoes; fewer still serve ones of such quality. The creamed spinach is the finest this writer has encountered anywhere, and the onion rings are just that: rings of onion with some batter coating. Various desserts are also available; again, high quality but nothing outstanding.

A complete dinner with dessert, coffee, and a half-carafe of wine ranges from \$9.00 to \$11.00 depending on choice of entree. Not cheap by any means, but the quality is ten times that of many restaurants charging much more. Credit cards are not accepted in order to lower overhead; they're open every evening.

-Richard Beatty

## Amadeus Quartet Top-Notch





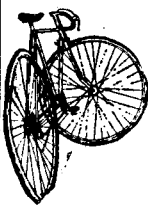
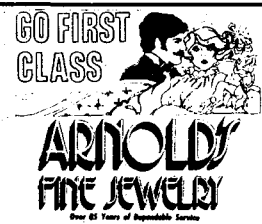







Tuesday night's Coleman Hammer Concert featured the Amadeus String Quartet playing two standard works by Mozart and Beethoven, and one less well known piece by Schubert. The program opened with Mozart's Quartet in D minor, K. 21. The performance was for the most part very good. I was particularly impressed by the uniformity of the balance. All four parts could be heard equally well, and solos were equally strong in all the parts. However, Ackman is apparently not well suited for chamber music, because from only eight rows back and not far from center on the

main floor, the sound was badly muffled. The Mozart was followed by Schubert's *Quartettsatz* in C minor. This piece, not published until after Schubert's death, consists of only one movement. The Amadeus' performance was lively and very typically Schubert. I was a bit disappointed with their performance of Beethoven's Opus 59, no. 1, which followed the Schubert. The first and last movements were played rather coarsely, and some parts were not well in tune. But overall it was enjoyable. I was surprised to see that

there were many empty seats, since the Amadeus Quartet is one of the best known quartets there is. In particular, I saw very few students there, which amazed me because of the low price (or no price) of tickets for Caltech students. But the audience that was there was very enthusiastic. After the Beethoven, the Amadeus gave three curtain calls and then played an encore, the slow movement of Haydn's Op. 64, no. 6. The encore was beautifully played; it was in fact about the best part of the concert. I look forward to the next such concert here.

-David Zelinsky

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# Student Grievance Committee Formed

by Pamela Crane

"Free the slaves—we look to the day."

Those of you feeling oppressed need wait only a short time longer, for Tech will soon have an Institute-sponsored Student Grievance committee. Title Nine of the Education Act requires such a committee to handle cases of sex discrimination, but the Administration decided to generalize and include any student complaints against another member of the Caltech Community. Presently, there are informal channels (Dean of Students, Director of Student Relations, etc.) for such problems, but if one surfaces that cannot be resolved in the usual manner, then the Grievance Committee will take over. It would review

the case and decide if a valid complaint exists, then prescribe appropriate action.

A committee was selected several months ago to draw up a draft of the proposition. It was composed of undergrads, grads, faculty, and a consulting lawyer for the Institute. Karen Grief, a graduate student, was named Chair. Their draft has been endorsed by the Faculty Board, and is now in the hands of President Brown, who must make final approval.

Although no matter has yet arisen needing the attention of a Grievance Committee, the potential is still there. Said Grief: "The Committee is required by law, but it is something that should exist. Hopefully, it will never be used."



Smokewood appeared on the Quad last week in the Friday Noon Concert.

Photo by K. Li

## NSBE Conference

Five Caltech students attended the second annual conference of the National Society of Black Engineers held at the Kellogg West facility of Cal Poly on April second to fourth.

The conference was hosted by the National Society of Black Engineers Los Angeles Consortium, composed of representatives from eleven colleges in the Los Angeles area, including Caltech. The consortium was involved in planning the conference as well as in raising money. Laurette Carroll and Gregory White were involved in the planning committee activities. Robert Thornton is co-chairman of the consortium and Richard Ashun and Lorenzo Cotton are

the Caltech representatives.

The conference was attended by about 150 students representing all of the geographical areas of the continental United States, in addition to a number of professional engineers. The purpose of the conference was to elect national and regional officers. The conference theme was "7,000 Is Not Enough," the fact that of the 840,000 engineers in the United States, less than 7,000 are black. Blacks are grossly underrepresented in the field of engineering since they compose 11% of the population as a whole but less than 1% of the engineers in this country.

—Gregory J. White

### Book Review

## Bach in Hardback

*The Definitive Biography of P.D.Q. Bach*, by Peter Schickele. Illustrated. Random House (\$8.95).

Schickele's latest effort to inflict his farcical obsession with this justly neglected composer has taken the form of a book. Those familiar with the recordings and performances of P.D.Q. Bach's music will be pleased to know that this mock-serious tome is no less hilarious. Unfortunately, much of the material is repetition of the recordings and the show given by Schickele as one of the regular performers at Beckman audi-

torium. There is, however, enough new material here to make amusing reading for even the most devoted P.D.Q. Bach fans.

The book begins (after a Dedication, two Prefaces, a Foreword, an Introduction, an Author's Note, Acknowledgements, and a Table of Contents) with a scholarly biography of P.D.Q., who "...steadfastly ignored handicaps that would have sent other men into teaching or government...". This is followed by a pictorial essay on P.D.Q. Bach's life and times, part of

which is the slide show that is a regular feature of Schickele's concerts. An annotated catalogue lists P.D.Q.'s discovered works and a few that have not been discovered yet (and hopefully never will be). Particularly noteworthy of the eight appendices is a musical analysis of P.D.Q. Bach's "Two Part Contraption", an excellent takeoff on musical analysis in general. Rarely do attempts at satirizing classical music come off as successfully as do the efforts of Professor Schickele.

—John Gustafson

## BOD Minutes

Minutes of the ASCIT Board of Directors, 22 April 1976.

The meeting was called to order at 7:28 PM by Bielecki. Present were Bielecki, Gromley, McDonnell, Chess, Rea, Rousseau, Fisher, Wilson, Okubo, and a throng of lobbyists and observers which peaked at eight people. Rousseau was given permission to vote by proxy for Westover, who was absent.

1. Speaking for Westover, Rousseau announced that the blood drive had been a big success and that the campus had topped its quota. Also, he mentioned that Steve Smith

had taken over as manager of the WATS line.

2. Ole Anderson did not show up for the meeting despite a request from the BOD. Mike Schwartz says that Anderson had taken approximately \$550 in commission on a publisher's discount over two terms as *Big T* business manager, but that he has not yet received his commissions on advertising. Chess suggests that the BOD move to withhold Anderson's commission until the matter can be cleared up. Rousseau asks what happens if that is insufficient, to which Bielecki replies that the matter can be referred to the BOC. A motion is passed to call Ole Anderson to the next BOD meeting and in the event that he does not appear, to withhold his commission and refer the problem to the BOC (Chess/McDonnell: 6-0-1, Gromley).

3. The Ascit Budget Meeting. Chess announces that this year's ASCIT budget was based on a predicted 730 ASCIT members and requested that spending be limited to \$16,250. This would leave a surplus of \$1200 to \$2500 to be allocated during the year. Chess then proceeds to explain each of the individual allocations on the budget. A motion was passed to limit the total allocations to \$16,250 (Chess/McDonnell: 4-2-1, Rousseau/Westover, Gromley).

continued next week

## Briefs

### Amnesty International

There will be a meeting of the Human Rights Organization AMNESTY INTERNATIONAL on Tuesday, May 4, at 8:00 p.m. in Clubroom 1 of Winnett Student Center.

Topics to be discussed include the situation in India, the current status of the campaign for the abolition of torture in Uruguay and events regarding AI in the Soviet Union.

Everyone is welcome.

### Big T Refunds

All undergraduates not wanting to purchase a 1976 Big T send a request for a refund, in writing, to Mike Schwartz 105-51. The request should contain your name, address, and student account number. Also anyone wanting a copy of the 1974 or 1975 Big T should get it in the Student Publications office (near Flora's office) as soon as possible.

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