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—completely independent of the rest of the world. Murray Gell-Mann seems to be one of these men. 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 theorist 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, there are lots of quantum ideas, quantum mechanics, relativity, and causality, a principle, uh-uh. . . ."

"And one can here following your lead."

"All of the theories are... to be one of these, and, in a 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, there are lots of quantum ideas, quantum mechanics, relativity, and causality, a principle, uh-uh. . . ."

"About all you will hear from most nuclear physicists is that model is 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 energy level and structure they show."

"For instance, the neutron can be made of one u quark, of one s quark, and q, 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 anything else."

"Another distinguishing characteristic of quarks is color."

Announcements Vital to Your Well-Being

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 practi- cality. 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 to students on campus housing. In the past all women were guaranteed on-campus housing if their applications met the deadline. This is contrary to the impressions of many, but other than this, women and men will be subject to the same rules or random change 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 center plans virtually no coverage, while staff coverage isn't too bad, but other than this, women and men will be subject to the same rules or random change.

Women No Longer Guaranteed On-Campus Housing

The California

by Mike Frisch
Tech Staff Writer

The IHC, charged with speak- ing for undergrads on food service selection, arrived at a commendation Wednesday night and postponed the question announcing its views until next week. No reasons for the action were given. The Intercollegiate Commission has decided to pass on all types of student groups, including the IHC. The IHC is working with 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 to students on campus housing. In the past all women were guaranteed on-campus housing if their applications met the deadline. This is contrary to the impressions of many, but other than this, women and men will be subject to the same rules or random change that governs assignments to student housing.

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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 25 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 prohibitively photocopying would slow the progress of science by seriously hindering 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 is facilitated by photocopying. Photocopying only gives one certain flexibility as to when and where the latter task may be pursued; a luxury which it 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 mathematics 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 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 xeroxing, that too might have been possible consequences for science. I sometimes wonder whether the "painless advancement of science" is in quantity or quality of irrelevant and trivial data. Since libraries cannot afford to subscribe 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 personal convenience. What copy rights are being violated in my photocopying? Who is profiting from original work? How much should a few corporations profit from the beat that a few corporations profit from the xerox bill in the legislature? I intend to use the xerox facilities with more awareness and restraint in future.

David Armstrong
Graduate Student
Biology

Kudos
To Mrs. Lisa Hawkinson:
I want to thank you for your wonderful film review I've seen anywhere. First of all, you were the only reviewer I ever read that had criticism of On and Off. As someone who is not too kind to the Arts, I felt that you gave me a very strong argument for me to support the Arts. I'm tired of hearing people say that the Arts are a waste of time. I have used the xerox facilities extensively and I estimate that I have spent about $200 per year. I have found it personally convenient. However, I would like to suggest that we all contribute to the library fund so that we can continue to use the xerox facilities.

Margaret K.

THE CALIFORNIA TECH
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Paper Moon
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In Baxter Lecture Hall
Admission: 50c—ASCIT members and their guests; $1.00—anyone else
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Vazquez: Take 3

I found it hard to believe that I would trouble yourselves to blow the second Vazquez letter scantly after the first. This man's head is full of over-stuffed rice. I mean, anyone who considers himself infallible, who expects others to readily give up their comfort to assure his, and who tops the comics section under arm while fixing breakfast to load anyone from reading the nicks before him, must be the product of some intestinal disturbance.

- N. Esquivel

Memphis correspondent of the Tech

Life On The FM Radio

You know, the real world will such a bad place after all, if we have the opportunity to do something you really want to do. I am a humble journalist now is the station manager for a real, live progressive rock non-commercial radio station. The station is WLXY, owned and living on the campus of the Presbyterian Vail-arts college. That is the station's association with the school ends. The Manager (my boss) is not I (no one, including myself) the staff is not necessarily tents. There is no broadcasting class. Yet through the Presbyterian tech, believe it or not, and support from our listeners, WX is one of the most respected radio stations in the station. The station has grown from watts on top of the school's tower, to three kilowatts from the top of a shiny 200 foot tower. We've added a subcarrier channel and are building up a reader nice to the blind and print handicapped. Special receivers to code the subcarrier are sold by donations and provided people to the handicapped. We've 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 one-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 library 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 station manager 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)

-Jojo

197 N. Merton, Suite 22
Memphis, Tennessee 38112

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..."
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/vana researcher in suicidology told Telers 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 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" toward 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 greatest among psychiatrists. Except among the very young, divorced, separated, and single people carrying 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 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-to-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 attempts are made 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 among young persons for success, which succeeded through flukes, and others where the suicide did everything in their power to assure the success of their attempts, and were saved through chance. She feels that many paid "suicide attempts fall due to lack of knowledge about the method chosen. However, she feels that in the majority of cases, the person sees the end and changes his mind from one instant to the next, or holds both feelings simultaneously.

How can suicidal behavior be recognized before the fact? According to Ms Kovacs, there are several indicators. A fairly moderate figure 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" toward 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 greatest among psychiatrists. Except among the very young, divorced, separated, and single people carrying the highest risk; the opposite is true among young people.

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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 distinction.

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 
\[ XD \] equation for distances larger than a tenth of a picometer, but we think that color does not decrease for larger 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 set are not colored, hence don't feel the nuclear force, as it has flavor. Another flavor of the neutrinos. Neutrinos feel either the nuclear force nor the electromagnetic force. It can pass through the earth with little reactivity of interacting. They feel the weak force, though. It is electromagnetic and weak forces are flavor forces.

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

'There are three possible answers to these dilemmas:"

'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?"

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

---

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 Kicentiuk, world-renowned hang-gliding expert, is in the Y lounge at noon today to discuss low-speed aerodynamics and progress on his powered 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 blowing in the wind'.

Yale College Summer Term
May 30 – August 15

Spend a Summer at Yale
A complete semester, full credit, a wide selection of courses taught by Yale College faculty.

Humanities Center offers such unique programs as:

Colonial America — An examination of the formative years in the development of an American nation.

Film — A study of film through production, analysis, historical development.

Forms of Literary Modernism — Studies of the modernist period in twentieth century fiction, poetry, drama in Europe and America.

For further information about summer term course offerings write or call:

Summer Term Admissions, 1502A Yale Station
New Haven, CT 06520 (203) 432-4229
Cassady Tung suggests, beyond the woman romantic view of Woman as evil, corrupted by Hollywood. In to love and beauty. Kraut or a European legend transcendental escape from evil relentlessly disparaged for his woman. By virtue of her purity, who made twenty-six well- and seducer. In produced films in a long career from 1925 to 1961. He was the world's most beautiful is the most beloved independent actually ennobled by the deep simultaneously and real and silence. Transcending this descent with ephemeral color superim- meaning of the dramatic conflict. Awakening but synaesthetic with way to confusion and shabbiness the silence of sleep, fragile but and finally to a low-energy shot in...
TUESDAY night’s Coleman hanger Concert featured the amadeus String Quartet playing standard works by Mozart at Opus, and one less well known piece by Schubert.

The program opened with Schubert’s Quartet in D minor, K. 195. The performance was for some part very good. I was particularly impressed by the balance of the players. All of the parts could be heard equally well, and solos were equally well played. 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 fact, there were very few students there, which amazed me because of the low price (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. 54, 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 Zelnisky

The quality of the food is excellent from start to finish. The salad is fresh, the dressings rich yet not too strong. 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 formations of the beef. The establishment deserves to serve such enormous baked potatoes; fewer still serve such of one quality. The creamed spinach is the finest this writer has encountered anywhere, and the onion rings are just that: rings of onion with some buttermilk. Various desserts are also available; again, 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 entrée. No charge on 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 Beaty
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 surface 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.

The committee was selected several months ago to draw up a draft of the proposition. It was composed of undergraduates, 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."

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 7 & 8. 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 Carol and Gregory Won, two students involved in the planning committee activities, Robert Thornton is co-chairman of the consortium with Richard Ashum and Lorenzo Cotten 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

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

The meeting was called at 7:28 PM by Bielecki. Present were Bielecki, Gromley, McDonnell, Chess, Rea, Rousseau, Fisher, Wilson, Okabu, 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 commissions 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, Gromley).

3. The ASCIT Budget Meeting. Chess announces that this year's ASCIT budget was based on a predicted $700,000 of ASCIT members and requested that spending be limited to $16,250. This would leave a surplus of $12,000 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

Book Review

Bach in Hardback


Schickele's latest effort to inflect 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 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 Bookman audiatur. There is, however, enough new material here to make arraing reading for even the most devoted P.D.Q. Bach fans.

The book begins (after a Dedication, a Preface, 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 the whole but less than 1% of the population as a whole but less than 1% of the engineers in this country..."

--John Gustafson

Annette International

There will be a meeting of the Human Rights Organization ANNETTE INTERNATIONAL on Tuesday, May 4, at 8:00 P.M. in Clubroom 1 of Wennin 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.

All are welcome.

Big T Refunds

All undergraduates not wanting to purchase a 1976 Big T send a request for a refund, writing to Mike Schwartz 105-51. The request should contain your name, address, student account number. 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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