Caltech Confusion Over Cold Fusion

by Matthew E. Peterson, Bryan Kim, Ian Lovejoy, and Chris Rostin

Three weeks ago, Dr. Stanley Pons and Dr. Martin Fleishman announced that their experiments had produced nuclear fusion at room temperature. A group at Brigham Young University, led by Dr. S. E. Jones, simultaneously made similar claims.

Since then, a group of physicists and chemists at Caltech have vigorously tried to duplicate this result, thus far without success. However, the Caltech scientists still do not rule out the possibility of cold nuclear fusion, noting that many details of the original experiments have not been released.

"Actual proof of fusion would be the detection of neutrons or gamma rays," claims Caltech physics professor Charles Barnes. He and his collaborators have attempted to recreate the cold nuclear fusion apparatus in the basement of Kellogg Radiation Lab. Caltech's neutron detector, one of the most sensitive devices in the world, has not confirmed an emission of neutrons from the experiment. Also, highly sensitive gamma ray detectors have failed to measure the high-energy gamma rays that one might expect from nuclear fusion reactions.

Professor Nathan Lewis, an electrochemist at Caltech, has been frustrated in his attempts to duplicate the Utah results. "We don't have a sick patient so we can't diagnose it," Dr. Lewis says, confounded by the complete lack of evidence for nuclear fusion. In a preprint of the cold nuclear fusion paper, Pons and Fleishman report an extraordinary amount of power, in the form of heat. Dr. Lewis' calorimetric measurements do not reveal any excess heat.

"On the basis of our present experiments, we have already released the important details of the original experiment have not been released," Dr. Barnes suggests. The Caltech scientists have had to rely on sketchy data released in Dr. Barnes' conjectures. The Caltech scientists have not shown how much of these fuels are produced, or if they recombine to give off heat that has already been accounted for.

Nuclear fusion occurs when two particles are forced into intimate contact, combining to form a heavier particle and releasing tremendous amounts of energy. To move nuclei so close to one another, the repulsive coulombic force must be overcome. Modern fusion research has centered around discovering the particles to extremely high temperatures and pressures, giving them enough energy to overcome the coulombic barrier.

Pons and Fleischman propose that the experiment takes advantage of an unusual property of palladium. Even though palladium is a metal, palladium, they claim, is permeable to hydrogen. Pons and Fleischman make the palladium into an electrode, and continually generate deuterium from nuclear fusion. The nuclei will get very close together. But Dr. Lewis states that current theory cannot explain how the nuclei could move close enough to initiate fusion. Dr. Barnes continued on page 9

The only councilman who voted to approve the final Master Plan with a six to one vote. The only councilman who voted against it was the 25th year over which the plan was to take effect was too long. One immediate effect of the approval is the vacation ofLaura Street, portions of Michigan and Chester Avenues, portions of San Pasqual Street, and Holliston Avenue. Caltech will be taking responsibility of maintaining these streets instead of the City. This will result in no Caltech parking tickets being issued in the above atmosphere.

Next Tuesday, plans on purchasing non-Caltech properties within the campus boundaries will be discussed. So far, Caltech agrees to pay $50,000 for people moving to areas within the Pasadena area, and a demolition fee of $30,000 if moving elsewhere. A coordinator will also be provided. However, these people will not have to start moving until the construction begins.

The new Caltech Master Plan presents the guideline for future development of the campus of Caltech. Under the new Master Plan Ordinance proposed by the City of Pasadena in 1985, all non-profit institutions occupying two or more acres and planning 5,000 square feet or more of future construction were advised to submit a Master Development Plan to the City for review and approval. Hence, in July, 1986, a "Report on Existing Conditions" was presented to the City's Planning Commission. A final version of the proposed Master Plan had been developed to provide for the Caltech faculty and staff, and the campus neighborhood. There will be a separate advise committee and numerous city departments, including the City's Public Works Department, the Design Review Committee, and the Cultural Heritage commission had reviewed and commented on the plan before the final approval on Tuesday. Although the plan was approved, there will be a compliance review held after one year, and general reviews held every five years.

According to Hall Daily, the assistant director of Public Relations, to get the construction done in 25 years is questionable. The plan will probably take up to 30 to 40 years. But a piece of good news there will be a big oversupply of parking spaces when the construction is finished. The number will be increased from the existing 2,400 spaces to 3,500 spaces.

Welcome, Pre-Frosh

by Andrew Bao

In a campus where your skipping tuition represents an insignificant portion of the general endowment of the campus.

It's a campus where the admission will not help place students, but will actually contribute money towards them.

It's a campus where you may be the highest SAT scores for incom­ ing freshman class yet still manages to offer such intellectually challenging classes such as Mach 2.0.

This is Caltech. Not just your ordinary run-of-the-mill technical institution, Caltech offers the opportunity to learn challenging classes and with that comes such other unique opportunities and personal contacts that just can't be found.

One other peculiar tradition continued on page 3

IHC Demands Apology

The Interhouse Committee, representing all seven houses, wishes to formally state that the Interhouse Committee, has prevented them from duplicating the results to date. For example, Dr. Lewis notes that the instructions for the activation of palladium have not been released by the Utah scientists.

Lewis claims that the main argument for nuclear fusion is based on calorimetry; the experiment purportedly generates much more power that a chemical reaction ever could. A reading of the Utah paper reveals that the claimed high output of power was not actually measured, but derived from debatable assumptions. This is because the experiment is not performed in a closed container. "You've got an open system. You've got things dissipating," notes Dr. Lewis. Pons and Fleischman assume that a large amount of energy is given off on the atmosphere, in the form of fuels created by fusion. But the Utah scientists have not shown how much of these fuels are produced, or if they recombine to give off heat that has already been accounted for.

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Dear Editors:
There seems to be a consensus among many undergraduates on the issue of poor teaching quality at Caltech. But to attribute this poor teaching solely to the fault of the faculty is to do them a great injustice. Most of them, like many of our UCLA contemporaries to their advantage: it would give the students the chance to learn the fundamentals of their field, which they are specialized in. From a researcher's point of view, the proposal is in my opinion because 1) he would have more time to do research; 2) he would be motivated and delighted to teach the high-level classes. By teaching in his field, and by the students' questions and feedback, he would learn more on the subject. From a student's point of view, better lectures would yield higher understanding and thus inspire advanced research in chemistry, physics, etc. More, having learned the fundamentals in his expected field, he would be more inclined to ask the right questions and to challenge his imagination, rather than being intimidated by the avalanche of information, lost and confused, and thus end up with an attitude of inferiority, a feeling of disgust toward the subject. This is another proposal is also greatly to the students' advantage: it would give the students both the chance to learn the fundamental concepts as well as the opportunity to be trained by some of the world's most brilliant researchers in their fields.

I see no major disadvantages in this proposal except it would cost the school some amount of money to hire these new "teaching assistants". But I strongly believe that the majority of the students would be willing to pay the increased tuitions allocated for this purpose.

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Alternative View to Hasok Chang's

Dear Editors,
Reading Hasok Chang's letter last week regarding the poor quality of teaching at Caltech in general, but of physics in particular, struck me as being well-intended, but rather superficial. Last week Hasok talked about some of his personal experiences, hoping to foster in the reader the same ideas in the teacher/student affairs. I would like to offer an alternate view to his, as well as to share a personal story of my own.

I find it most interesting to highlight the fact that Hasok and I have had somewhat parallel experiences. Although we did not start in the same class, we will both be graduating this summer. Our abortive dealings with the physics option are very similar; Hasok had problems with his advising, and I did too with my. But while Hasok attributed this poor teaching quality at Caltech to the fault of the students, I attribute it to the fault of the faculty. This lack of enthusiasm is inevitable from the status quo by which a professor's tenure is judged mostly by the performance of his students. Using their teaching skills, it puts the surface of the problem, for they only give feedback to the faculty and do not receive any way to provide motivation for teaching. If anything is to be effective in improving the teaching quality, it must change the status quo in a rather fundamental way.

Hasok Chang's letter has inspired me to re-examine my long standing proposal which, if executed, would both benefit the researchers and improve the teaching quality at Caltech. The proposal is that the Institute ought to consider hiring some new faculty, who are competent at teaching, whose primary job is to do research. Let them teach all basic-level courses to give students a real opportunity to learn the fundamentals in fields that they are planning to go into. Also, have their tenure judged mostly by their performance as teachers. The graduate and advanced courses shall continue to be taught by the researchers since they are the most qualified to teach these subjects, in the fields which they are specialized in. From a researcher's point of view, the proposal is in my opinion because 1) he would have more time to do research; 2) he would be motivated and delighted to teach the high-level classes. By teaching in his field, and by the students' questions and feedback, he would learn more on the subject. From a student's point of view, better lectures would yield higher understanding and thus inspire advanced research in chemistry, physics, etc. More, having learned the fundamentals in his expected field, he would be more inclined to ask the right questions and to challenge his imagination, rather than being intimidated by the avalanche of information, lost and confused, and thus end up with an attitude of inferiority, a feeling of disgust toward the subject. This is another proposal is also greatly to the students' advantage: it would give the students both the chance to learn the fundamental concepts as well as the opportunity to be trained by some of the world's most brilliant researchers in their fields.

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...but in the long run, who is to blame for our lapse in education, our teachers or our lack of true initiative? - Alex Wei

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Don't Censor

from page 2

I want to give a little Southern California perspective to the 'true
frosh' students. That's funny, I thought I was the only one supposed to give a Caltech feeling to the students, which is significan
tly important. When I was a frosh men when he was the last time (she went to Magic Mountain. Such trips are almost a tradition for the frosh from LA who come away from the weekend originally with Caltech, mislead frosh about the social opportunities available at both Caltech and Embry-Riddle Aeronautical University in Los Angeles also seems to mean that they respect the frosh. Though the tour of JPL the weekend is informative about the research science and technology we can have ever been offered a tour of JPL.

However, I am not sure that any of the activities are worthwhile. The barbecue on Saturday afternoon, and the day's light activity is a pity that such a social gathering

Not scheduling a distinct time for visiting classes has been left out. According to the schedule, the Admissions Office wants to meet with the student during the weekend, and their feeling of what the small classes are like. I think this information is an important part of the Caltech lifestyle. However, the sad reality is, that the number of freshmen's courses have over 150 people in them. Why not schedule the planning for the weekend was done by Caltech staff and students. It is a waste of time to give for misleading the prefrosh. I don't think that can't get access to a schedule, my article won't work

Essentially, the admissions office plan to run on the Weekend Club

To the undergraduate community.
Wednesday, April 12th, during Pho'66 lecture, after the professor had used very casually the term "Spherical Harmonic," a student raised her voice to ask, "I don't un

It's not even the famed and elusive Power Off Accuracy Landing drop event. This event, an aircraft for a small town about 100 miles south of San Francisco. Their goal is to be the first human only two men had flown before, fold down, and the "cage" of the FN102 "Gazebo" or is that "Chicory, Coche, Chicote?"... Mostly esp

Both at Caltech life is always busy. Though you can do all the activities that are planned, or you can do nothing at all. Prefrosh are advised to attend at least some of the presentations by the faculty. This weekend's schedule is by

One student felt so moved to as "Where did you come from?"

This is incredible. Not only is this totally unprofessional, but the profession of "Spherical Harmonics" to them in use in electronics. Furthermore, it is a severely fourth and the fourth profess

All the student asked that the question be directed to her...not the student, but the moral duty of the student. To der

One student who yelled out the stupid and cruel taunt, he should take a leave of absence from school for a couple of years to teach him manners. He is ob

The laughter was thoughtless and the entire class oohed the ques
tion and not the professor. The instruction all students were given in the course were that their ignorant of the act of a child.

Who thought of this? The student who thought of this was the child of parents to take a second try at teaching him manners. He is ob

But 25 years later I claim). Driven crazy by this thoughtless was at this time during the school year.

and Robert Chang.

Ferber eating weeds by the side of the road. I must have looked pretty dejected then.

In LA.

and Robert Chang.

May 18
Tennis Men Happy Again - Farnham Team Hero

by ThunderChris

Third term is in full swing and so is tennis season. After a full two weeks of spring break, Caltech's men's tennis team met a rude return, suffering crushing losses at the hands of MIT, Westmont, and Occidental colleges in the stinking heat of last week.

Yet with the change in weather came a change in performance, as Caltech stormed over Whittier College on a chilly Tuesday afternoon, defeating the opponents 6-3.

Whittier, already having suffered a terrible loss to Caltech earlier this year, arrived at the courts with upset once again in the players' minds. Perhaps they hoped the long lazy days of vacation softened up the CIT competitors or that the recent losses had drained them of their winning desire.

Although Whittier put up a valiant fight and had several chances to force the day's match down to the final doubles matchup, Caltech continued to play deep and put it away with a crucial singles victory.

Playing the same Whittier player as last time, top player Ralphie Chiu returned to a high level of play, recovering from a plunging shoulder injury from second term and daringly demolished his opponent in two deuce sets, 6-3, 6-2.

Dan Pang, in the second spot, had even less trouble disposing of his opponent, dismantling him 6-2, 6-1 with a dazzling display of all-court coverage. #3 David Garza, facing a hungry opponent, became involved in a fierce groundstrokes duel, but was defeated in a draining two-setter.

And Taan Le, in the fourth spot, also encountered a relentless foe, yet found the resources and cunning to crush him 6-4, 7-6. Hernan Kney played in the fifth spot and found himself dropping the first set. Although Kney came back in the next set 7-5, the fast-paced games turned against him, and lost the third set.

The match of the day came in the sixth singles spot, with Lloyd Farnham representing the Beavers. Farnham, hitting well under control with great pace and placement, quickly won the first set 6-2. However, his opponent overcame his frustrations and began putting away points with authority, forcing a third and deciding set.

Carrying almost all of the momentum came the set, the Whittier player quickly went up 5-1. With both teams watching and time running out, it seemed it would take a miracle or better for Farnham to regain the rhythm of the first set and win another game.

But maybe there was a miracle. Farnham delved deep into his mind and found the determination of a lifetime, regaining strength, concentration, and strategy. He did win the next game, but brought the set back on serve.

At point pressure must have been unbearable, as both players stayed at the baseline, preventing any net game with deep, well-placed groundstrokes. Even when one player pounced on a short ball and approached the net, ideal shots would return them to the seaview pace of before.

But after a couple games in the pressure-cooker, the set went into a tiebreaker. Farnham immediately won the first point, and would later go up 6-4 with a mini-break and two match points in hand.

However, much to the dismay of his teammates, Farnham double-faulted at the net, allowing the other team to survive, the slow, slowgroundstrokes game, but just could not cope with the stress and hit just wide on Farnham's backhand. With the opponent's unforced error, Farnham had not only won the third set and his singles match, but clinched the team victory for Caltech.

In doubles, the first match was over before the second began. Pang and Le struggled to win a 7-6 first set, but dropped the second.

News From The Y

Monday noon: 4/17/89

The Y Excomm meets every Monday at noon to discuss future programming ideas which the Y might produce. If YOU have any clever, entertaining and viable ideas, you are welcome to bring them by. Also, there are some vacancies on the Excomm for those self-selected few who have interests which can, with some practice, be translated into programs which would interest and benefit the Caltech community. All potential new work is expected, those who do contribute feel highly rewarded as part of a high performance team, developing skills which they will use for the rest of their lives.

Tuesday night: 4/18/89

Dennis Smith will discuss how computer business planning can make or break either a new or established business. Dennis is a very sharp, fast, Free Delivery™ 797-3030

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Call Us! 797-3030

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Just call for the new thick-crusted Domino's Pan Pizza: Delivered in 30 minutes or less. Guaranteed.

Get to enjoy an amazing Pasadena Playhouse Play which STARTS at 8:00 pm with breathtaking views and an exciting new power plant design ideas. Held in Winnett Club Room I at NOON. Refreshments provided.

Movie Stars Gone

by George Callow

What do you have when you take one Atheneum, a Danny Devito, a Kathleen Turner, and a Michael Douglas? The answer, of course, is roses.

These three talented performers were at Caltech last week to shoot scenes from their upcoming movie, "War of the Roses." Devito describes it as, "...passion, love, divorce, and furniture..." The film is a comedy about a wealthy couple, Oliver and Barbara Rose (Douglas and Turner), who are having a "harmless" marriage, but Danny Devito stars as a divorce attorney. At the time of this writing, there was not much more information about the film, but publicist John West said the story leads to a "unique conclusion." West also said the scene at the Atheneum was the Ecuadorian embassy garden in the story. The film is due to be released in November of this year, and promises to be very entertaining and worth watching.

by ThunderChris

The California Tech

Michael Douglas accosts two Lloyd fresh, Ari Kaplan and Fiona Lo.
Track Wins Four More. Men are 15-4, Women 15-3

by Joe Fierro

The Caltech Track Team cruised to its first invitation of the season—Caltech Invitational III (not to be confused with Wreath Invitational V). It was only available through pay-per-view on your local cable systems unless you were one of the lucky thousands who were able to see the event live. Christ College, Whitter, La Verne, and Masters were the four universities that had to suffer the agony of defeat at the hands of the Beavers, who chose to dress in fluorescent orange in a questionable fashion statement.

When the final point totals had tallied, the Caltech women had 97 points, easily defeating Christ College (56 pts), Whittier (34 pts), La Verne (28 pts), and Masters (4 pts). The men's results were Caltech 132, Whittier 89, Masters 66, Christ College 36, and La Verne 14.

The Women

For the second straight week, Bibi "Wonderwoman" Jentoft-Nilsen showed incredible stamina in the 1500m (5:33) and 800m (2:30), and placing second in the 400m. Liz Warner limited herself to only four events this week but made the most of it by winning the 200m (26.0) with a time (5:32) in the 1500m that may have set a new school record with a time of 28.0 seconds.

Caltech also received first place results from Emmeline "San Francisco Sacks" Naroran in the 100m hurdles and Cathy Hafer in the 400m. However, the best race was saved for last. In an incredible grudge match, Goldberg Bernstein, running her fourth race of the day, battled Vicki Lane, who was running her third race of the meet, for every step of the 3000m. The two ran neck-and-neck the whole race as the crowd was beside itself in anticipation, threatening to erupt in uncontrollable violation.

Unfortunately, officials held the fans in check and Goldberg rallied down the final stretch. Vicki was a few steps ahead with ten yards to go, but Goldberg surged by Goldberg provided a photo-finish.

Tennis from page 4

4-6. Down 1-4 in the third, they were able to come back for another tiebreaker, with hopes of pulling off an incredible comeback similar to Farahman's conquest.

However, this tiebreaker was not quite as kind to Whittier. Whittier won their third and last point team with a 9-7 tiebreaker. Although the Beavers, Keny and doubles-specialist Jimmy Ng once again found the winning combination, they lost to one of the next four 6-4, 6-1.

In the end, it would seem that the men's team is well on its way on getting into the groove. Although the two weeks of vacations may have had some negative effects on the players' games, Tuesday's conquest may indicate the team is back to its normal self.

Join us on the fun as Ms. Vicious in her second consecutive win Friday against Christ College right here at home. And wish the team luck as they travel away Saturday and meet Claremont-Mudd-Scripps. (And from this writer to you, welcome back to Caltech and all that it has in store for you. And to all the pre-fresh here this weekend, enjoy your stay and I hope to see you next year!... C. Ho)

And the smiles and winning spirit continue

Salvage Open; depending on experience

For information and interviews, please call: Mr. Michael K. Stark, Executive Vice President
El Monte Iron & Metal Company, Inc.
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Salary Open; depending on experience

TECHTIX for CIT Faculty & Staff - Half price tickets go on sale at noon the day of show...

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In the controversy that followed, a few small fights broke out and some peaches were thrown, but the officials decided to award a tie to the two runners in order to avoid any more bloodshed.

The Caltech men elected to rely on strength in numbers; they entered men in the 800m, 1000m, 1500m, and 5000m. John "Mr. Vic" Raguin led the Beavers in the 800m with 2:06.5, and Dan Flees ran a 4:24.6 in the 1500m to lead Caltech in that race. Scott Kister placed third in the 5000m behind two-world-class runners from Masters, but he dominated the 3000m Steeplechase, beating the nearest competitors by almost four minutes.

The Men

In a similar effort, Sean "The Beast" Hilliard cruised to an easy win in the 400m by over 2.5 seconds. Randy Lane still threatens to break the record set by Goldberg in his high jump with his leap of 6'4" to take first in that event. Sheldon Lim recorded a mark of 18'-3/4" to take second in the long jump, while Bill Swanson and Albert Lee placed second and third in the triple jump with fine marks of their own.

Steve Hardness won the shot put for Caltech with a throw of 397'-1/4", and Ed "Pretty Flower" Mao rounded out the field events by taking second in the discus. Thanks to meticulous strategy by Coach Jim O'Brien, the Caltech men spread their scoring around to win the meet going away.

As the last race ended, we saw the fastest sprinters of the day as fans and runners alike made a mad dash for Mrs. Coach O'Brien's world-famous sandwiches, which left everyone satisfied. In a team meeting afterward, Mrs. Coach was elected the new team captain, replacing the ailing Mark Llytle, who was laid low by the critical condition at Munir Bhatti Hospital.
Accomplice

In "Accomplice," playwright Rupert Holmes's flair for mystery, first evidenced in his musical "The Mystery of Edwin Drood," has been brought to the dramatic stage. And what flair: Described by one of its characters as merely "a two-act, four-character thriller," "Accomplice" operates simply enough: in a cozy country home, an English wife is making necessary preparations—to murder her husband and her lover's spouse. It's like the slow haul to the top of a roller coaster. Once you're there, the twists and turns of the plot carry you downhill, screaming, to the final, splashing climax.

Trying to describe the plot-within-plots, the level-within-levels is not impossible, but would certainly ruin your enjoyment of seeing the play unfold. Suffice it to say that there are echoes of "Deathtrap" and Agatha Christie's "Mousetrap"—and that seeing Terry Gilliam's "Accomplice" in the final act quietly portends the tragic conclusions that follow.

The staging of the opening scene, with the Los Angeles Master Chorale as Cyprians awaiting the fate of their governor Othello's ship, was a remarkable confection of darkness and light, music and sound, the oscillation of the cast evoking the unseen waves and the threatening storm.

The next production of the Los Angeles Music Center Opera is Salome, on April 18, 23, and May 1. It's also reprising the production from the initial season, which sold out. The season will conclude with Offenbach's operetta "Orpheus in the Underworld," with 17 performances starting June 14.

—Gavin Claypool

Penn and Teller Magical

Although they perform magic tricks, Penn Jillette and Teller are certainly not magicians; their creation shows have actually earned them the scorn of the mainstream magic world. They are funny enough to keep the audience laughing throughout their nearly 3-hour show, but they do not want to be considered magicians. They are, first and foremost, vaudeville performers, having once been freak-filled sides, or as Penn prefers, ten-in-one, shows.

To tell any specifics about the show, running until Sunday at the Wiltern Theater, would be to reveal too much. In the first half, they perform their standard humorous tricks, a few of which most people have seen before, such as the "Casey at the Bat" sketch. After intermission, however, the mood of the show changes, the audience doesn't laugh as much, and some of the material was obviously never meant to be funny. One begins to wonder where the duo is headed, some when the last scene begins, the audience is unsettled. Then they have fun. In a scene that only has relevance at the end of their carefully constructed show, they reveal a secret which brings down all of one previous conceptions about their craft.

Penn and Teller have performed numerous times on television, but only in their live show does one get to look at their souls. See them before they leave!

—Paul Soehl

Odyssey

In a production reprised from its Inaugural Season of 1986, the Los Angeles Music Center Opera presented Verdi's "Otello" to sold-out audiences last month.

The LAMCO Artistic Consultant Plácido Domingo was commanding in the title role, but the story—as are most versions of Otello—was stolen by Justino Diaz's Iago. His "Credo in un Dio crudel" is "a creation simile a se" (I believe in a cruel God, who has fashioned me in his own image) was a consummate statement of villainy. Both Domingo and Diaz starred in their respective roles in the recent Zeffirelli film version.

Hungarian soprano Ewa Tokody made her debut with the Los Angeles Opera as the doomed Desdemona. Her poignant "Willowy Song" in the final act quietly portends the tragic conclusions that follow.

—Gavin Claypool

Otello

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Otello

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—Gavin Claypool
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Hartford, CT

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nuclei were moved close enough together, quantum mechanical tun- ning could bring them the rest of the way. The nuclei would tunnel through the coulombic barrier. This effect could be further enhanced by the reduction of the coulombic force, resulting from the relatively high density of electrons in the metal. But he says that he would have expected far more neutrons that the Utah group reported, with such a process to occur. "If neutrons were actually being produced at the rate Dr. Fleming estimates, we would have to infer that the density of neutrons was very high, because the cross section for neutron production is very small," he said. "But we have not observed any such high density of neutrons." Other scientists speculated that neutron emission is only required for momentum conser- vation, and that, in that case, the palladium lattice itself could absorb the necessary momentum.

The report contains a number of controversial statements. For example, Dr. Fleming said that "the nuclei would tunnel through the coulombic barrier. This effect could be further enhanced by the reduction of the coulombic force, resulting from the relatively high density of electrons in the metal. But he says that he would have expected far more neutrons that the Utah group reported, with such a process to occur. "If neutrons were actually being produced at the rate Dr. Fleming estimates, we would have to infer that the density of neutrons was very high, because the cross section for neutron production is very small," he said. "But we have not observed any such high density of neutrons." Other scientists speculated that neutron emission is only required for momentum conser- vation, and that, in that case, the palladium lattice itself could absorb the necessary momentum.

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Review of Ditch Day by Anna Funke

April 14, 1989

Dear Diary:

Well, I'm here! What a long day! At the airport, I was met by some Caltech students. For some reason, I could smell the dorm. Outside, I was met with the sound of the door slamming, the sound of the students laughing, and the sound of the students singing. It was a great day, and I can't wait to get started.

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That date last night with David was a disaster. Well, it'll be nice to get away for the weekend. I've got to get a few things done, but I'm excited to see what's coming up.

Worked masses. This Saturday is the Graffiti Party with Lloyd and Blacker and the other Pre-Frosh. It was a blast, and I'm looking forward to more.

Dear Diary:

Good night, Diary!
Dabney

Dabney wanted me to water this down, oh? Well, I'm not. For more bitching and moaning on that subject, see "Letters to the Editor" (if I get printed).

So (as I hear the story), the party was great. Mojo is a great performer (Jeremy Lyons), guy two thumbs up (Siskel and Ebert) and played quietly (Danny Ristovski). So everyone thinks that we got our 15-30 cents per second worth, depending on what time estimates you use. Of course, it's Louis' fault that Mojo didn't play longer. If Mojo could have had his bag of nitrous on stage, he would never have stopped playing. We held the Roomquest that broke the Freshmen Commandry last week. I knew that if I persisted long enough, I could break them. Speaking of freshmen, if any of you freshmen read this tune, I'd like to see it come. And, don't forget the screams (audible out and changing). Susan taught him all this. And, he bought for her--or for your own.

23. How Paul adresses his wife
24. "He's not doing too well..."
25. How Karin's father treated her
26. "But instead thought admiral"
27. "It's not much of a film"
28. "You're a psychopath"
29. "She's not interested in people"
30. "She's old"
31. "It's not much of a film"
32. "You're a psychopath"
33. "She's not interested in people"
34. "She's old"
35. "It's not much of a film"
36. "You're a psychopath"
37. "She's not interested in people"
38. "She's old"
39. "It's not much of a film"
40. "You're a psychopath"
41. "She's not interested in people"
42. "She's old"
43. "It's not much of a film"
44. "You're a psychopath"
45. "She's not interested in people"
46. "She's old"

Dabney Crossword Puzzle, #1

By Brian Lemoff and Don Finnell

Across
1. GPOST, to Yale Scholar
2. Jack Nicholson's first film (if I can
3. Dared CMOS for its dangers
4. "When you're a little too good"
5. Paul Locke on an anvil
6. GAVE CONV:
7. The most recent release of your<br>8. If you're a professional<br>9. CMU's honor student<br>10. Paul Locke on an anvil
11. Charge in God's kingdom
12. B.S.M.
13. "How to manage the sequence of words"
14. A Spiritual person
15. "...The way by which"
16. Who's department?
17. The Peace Prize winner
18. B.S.L. in<br>19. A Spiritual person<br>20. When there's none
21. Who's department?
22. If you're a professional<br>23. "...Don't second guess"
24. "...Don't second guess"
25. "...Don't second guess"
26. "...Don't second guess"
27. "...Don't second guess"
28. "...Don't second guess"
29. "...Don't second guess"
30. "...Don't second guess"
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40. "...Don't second guess"
41. "...Don't second guess"
42. "...Don't second guess"
43. "...Don't second guess"
44. "...Don't second guess"
45. "...Don't second guess"
46. "...Don't second guess"

Down
1. Brian Lemoff
2. Pastoral piano man
3. "He'll be down, when you least expect it"
4. "...You've put on a lot of weight"
5. R.H., J.M., and R.M.
6. Brian Lemoff
7. Lied (one of)
8. Joel Levin
9. Robert Levin
10. Joel Levin
11. Joel Levin
12. Joel Levin
13. Joel Levin
14. Joel Levin
15. Joel Levin
16. Joel Levin
17. Joel Levin
18. Joel Levin
19. Joel Levin
20. Joel Levin
21. Joel Levin
22. Joel Levin
23. Joel Levin
24. Joel Levin
25. Joel Levin
26. Joel Levin
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36. Joel Levin
37. Joel Levin
38. Joel Levin
39. Joel Levin
40. Joel Levin
41. Joel Levin
42. Joel Levin
43. Joel Levin
44. Joel Levin
45. Joel Levin
46. Joel Levin

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Microcode Engineers
Develop control microcode for our 32-bit VLSI processor. Should have at least 4 years experience in microprogramming of pipeline processors or related products.

CPU Design Engineers
Join in our state-of-the-art, 32-bit microprocessor. Should have at least 4 years experience in high-performance processor logic or related products.

Cache Subsystem Engineers
Take charge of designing a highly sophisticated cache subsystem to match the performance of our 32-bit VLSI processor. Should have at least 4 years experience in designing high-performance memory systems or related products.

CMOS Layout Designer
Take charge of laying out complex VLSI circuitry in our advanced sub-micron CMOS technology. Should have at least 4 years experience in MOS/CMOS layout.

Passover Observance
Passover observance begins this year on April 20-27, 1989. The first and second Seders will be held on Friday, April 21, at 8:00 PM in the Administration Building. Any Jewish student who wish to have Seder held in the Hillel will be requested to contact the Caltech Hillel. Also, the Seder should be held on Caltech's campus in order to have space for all participants. The Seder should include the Hillel. Also, the Seder should be held on Caltech's campus in order to have space for all participants. The Seder should include the Hillel. Also, the Seder should be held on Caltech's campus in order to have space for all participants. The Seder should include

Kung Fu Classes
The Chinese Martial Art (Kung Fu) classes are now on Tuesday and Thursday night, 7-9 pm in Women's Lounge. Our goal is to teach fluid, graceful, and effective Kung Fu, "to build self-confidence, to develop power & flexibility, and to improve mind-body coordination. The class will be taught by Master Limpi Dog and his pupils. Master Aug studied in Shaolin Temple in southern China, and has been teaching Kung Fu for over 20 years. The students are taught for teaching for twenty-five years. Classes are in a variety of styles at beginning and advanced levels. New students welcome. For information, please contact Master Limpi Dog, 6412, or stop by the class.

Central Dance Classes
with the Ballroom Dance Class every Monday at 7:00 pm in Dabney Lounge from 4:30 to 5:30 pm. Learn the Waltz, Forks, and Meringue. Sign up in the Y.

Aviation Film
In conjunction with H416, "American Avi­

Kung Fu Classes
The Chinese Martial Art (Kung Fu) classes are now on Tuesday and Thursday night, 7-9 pm in Women's Lounge. Our goal is to teach fluid, graceful, and effective Kung Fu, "to build self-confidence, to develop power & flexibility, and to improve mind-body coordination. The class will be taught by Master Limpi Dog and his pupils. Master Aug studied in Shaolin Temple in southern China, and has been teaching Kung Fu for over 20 years. The students are taught for teaching for twenty-five years. Classes are in a variety of styles at beginning and advanced levels. New students welcome. For information, please contact Master Limpi Dog, 6412, or stop by the class.

Central Dance Classes
with the Ballroom Dance Class every Monday at 7:00 pm in Dabney Lounge from 4:30 to 5:30 pm. Learn the Waltz, Forks, and Meringue. Sign up in the Y.

Aviation Film
In conjunction with H416, "American Avi­
ULTIMATE

For undergraduates or graduate students, the Ultimate offers a full, all-inclusive meal plan for $44 per week. The game is in session 1-4 pm on Saturday and 4-7 pm on Sunday. Ultramenu includes a choice of main entree and three sides, such as tacos, pizza, pasta, and more. Enjoy quality meal times with the Ultimate Plan! For more information, call the Ultimate at (818) 992-6966.

TURF II

Play chess on the main floor of the Fun and Games Center, 6-10 pm on Tuesday nights. TURF II offers a relaxed atmosphere where you can enjoy a game of chess or just socialize. For more information, call the Fun and Games Center at (818) 992-6966.

CALESIFIED ADS

FOR RENT

- ALAMEDA HOME FOR LEASE. 4 bedroom, 2 bath, kitchen, office, living room, family room, laundry room, outside patio, $1500/mo. Contact: (818) 945-0455

FOR SALE

- TONER CARTRIDGES for Apple LaserWriter, almost new, fewer than 500 sheets printed, $10. Contact: (818) 992-6966

PLANET FOR New York on April 20, $100 to be discussed. Call (617) or (818) 992-6966

IF IT'S TRUE you can buy jets for $44, you can buy it from the U.S. government. Get the details by calling (818) 992-6966.

SAC: W 17th and Hillcrest, 24 hours.

HELP WANTED

- CHEMISTRY MAJOR, Senior or Graduate, Part-time/temporary assignment, days/hours flexible. Inexpensive, rapid, industrial testing. Duties include review/audit GMPs, chemical substance acceptance (such as non-sterile), and more. Must have excellent technical writing skills in making sure the testing is acceptable. Send resume to KPXTEK Research Inc., 1305 Optical Drive, Atascadero, CA 93422, (805) 929-1640.

SERVICES

- INSURANCE WAR! Best way to protect your property and liability. Sootmasters, multiple ticket, student discount. Requirements: Verifiable losses, clear claims. Send to: (818) 992-6966 or (213) 873-3033.

RATES: $3.00 for first 25 words. Casualty insurance, $1.00 per word. Send written ad with payment of $5-40. Deadline is 6 p.m., Monday before issue.

THE CALIFORNIA TECH

May 15, 1989

Folk Concert in Winnest

The Caltech Folk Music Society presents a folk concert in Winnest on Saturday, May 13 at 8:00 pm. The concert features outstanding performers of both classic and contemporary folk music. Enjoy a variety of styles including bluegrass, folk, and traditional music. Tickets are available now at a reduced rate of $3.00 per person. For more information, contact the Folk Music Society at (818) 992-6966.

AIRTALK

On Wednesday, April 19 from 6-7 pm, KPCC-FM will broadcast the next program in the series of AIRTALK discussions. The topic for this program is "The Role of Religion in Contemporary Pacific Asian Conflict." The show will be hosted by Dr. John W. Mackay. For more information or to participate, call (818) 877-6363.

On Thursday, April 20 at 8:00 pm, KPCC-FM will broadcast another program in the AIRTALK series. The topic for this program is "The Future of Nuclear Power." The program will be hosted by Dr. Robert S. Oppenheimer. For more information or to participate, call (818) 877-6363.

And on Friday, April 21 at 8:00 pm, KPCC-FM will broadcast the final program in the AIRTALK series. The topic for this program is "The Importance of Health Care Reform." The program will be hosted by Dr. Harry S. Wachtel. For more information or to participate, call (818) 877-6363.

Announcements科

Submit announcements for commercial events to: FOCUS, 40-58, 1st Floor, or to: FOCUS, 515 S. Wilson, second floor. The deadline for announcements is 4:00 pm on the day before publication. For more information, call the Office of Student Affairs at (818) 992-6966.

The California Tech

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