Christopher Dunn

Wednesday was Ditch Day, a Caltech tradition. As usual, reporters buzzed about the campus trying to make sense of the mayhem.

Seniors reportedly spent billions of dollars for stacks that had been under construction since childhood. The dollar figure has not been released yet. The story of a cannon to fire Oranges at the stacks is tied up with string for a stack in Norse Mythology.

As techers stood in a passageway in a Norse Mythology stack, they were showered with jello from an overhead terrace. That spurred talk of a counter-stack.

One Biohazard Stack (there were two that used the biohazard symbol) pitched three teams against each other to win a big defense contract. They were expected to lie, cheat, and double-cross like corporations. One techer was killed in a Siberian Stack. They searched for dummies, lopping off the heads of student models. The techers continued on page 9...

Registration Survey Results

At registration for this term, undergraduate students were asked to complete a survey about certain topics relevant to student life. This survey was created by the group of students following up last year’s Student-Faculty conference. (Please note that the survey was not an act of the administration. This was an effort by students for students.)

Volunteers from the follow-up committee distributed and collected the forms at registration. We received 421 responses! (That’s about half of the undergraduate student body.) The relatively large sample size ensures that the results are an accurate representation of student sentiment, although there will be an inevitable bias towards those students who registered on the first day of the term. Those results have now been compiled, and we would like to present them to the community in this forum.

The first four questions of the survey address issues concerning graduation requirements. Dedicated readers of the Tech may recall a controversy last term over graduation requirements. (See the issue of March 13, 1992.) An open letter to the trustees...

The first three questions of the survey were designed to gauge student awareness of and support for the various possibilities. The new proposal (graduation requirements determined by registrar and option officers) was listed with several other possibilities to answer the first three questions. When students were asked, “What was your understanding a month ago of how your graduation requirements were determined?” The most common response was “any catalog for which you have registered” (50.4%), which is consistent with the actual policy adopted by the last five Deans. (This survey was distributed and collected at the beginning of third term, when that issue of the Tech publicizing the controversy over graduation requirements was less than a month old.) The next most common response was “entering catalog” (41.5%). When asked, “What is your current understanding?” the same two responses were first and second, but with lower percentages (37.3% and 34.6%, respectively) and much more uncertainty (93 people answered U). The greater spread in the answers to this question indicate that many under-graduates were aware of the contro...
To the Editors, I am writing to draw the attention of the Caltech community and especially of the student body to two unsigned letters—one typed, one hand-written—posted on the notice board outside the Coffeehouse. Both letters have been defaced by a single, unknown individual.

The unidentified mauler wrote, with very large and bold letters, "YOU SUCK" across the first page of the typed letter and proceeded to write uncivilized remarks. The second, handwritten letter appeared in support of the first, and the mauler defaced it too with comments like "no shit," "you are some kind of pinko socialist," and "crap." I am outraged and disappointed to see such deplorable means of discourse at Caltech. If the anonymous defacer diagnosed with the letters, the democratic way was to write a letter in response. I do wish that both letters were signed, and the defacer had the moral courage to identify himself. Nonetheless, no matter how offensive the posted letter may be to anyone, defacing it is barbarous behavior. Disgusting remarks do not convince anyone.

Khurram Dasgupta
Box 261, 585-8817

The Crime and Incident Beat

Rajan Ranga

5/1
The victim secured his apartment in the Catalina Complex and went out of town for a few days. When the victim returned, he discovered that someone entered the apartment, apparently through the sliding glass door. The victim did not know what was missing.

5/4
An infrared scope is missing from a room in the Beckman Institute. The room was locked and there was no evidence of forced entry. Value: $1500

5/6
The victim left his watch and binoculars on the Rickets house lounge at 12:10 PM. The suspect asked the students about the effects of the recent riots on Caltech. The suspect seemed to be agitated. When one of the students called security, the suspect left.

5/7
A suspect approached a group of students in Ricketts house lounge at 12:10 PM. The suspect asked the students about the effects of the recent riots on Caltech. The suspect seemed to be agitated. When one of the students called security, the suspect left.

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Registration Survey

very: there is no stated policy, no consensus in the appropriate response. When asked, "How do you feel they should be determined?" the same two responses were again the most popular, with "any catalog for which you registered" taking an even larger percentage of the total response (50.9%) and "entering catalog" less popular (37.4%). The fewest number of responses were again the most popular, with "any catalog for which you registered" taking an even larger percentage of the total response (50.9%) and "entering catalog" less popular (37.4%).

The final question asked students how helpful the registrar's office had been in determining graduation requirements, and the overwhelming response was that it had not been very helpful. The average response was 3.9, with a standard deviation of 1.2, where very helpful and 5 meant not at all helpful. When the sample was restricted to those who had been here at least two years — that is, those entered in 1989 or earlier — the response was slightly less negative, with an average response of 3.8 (std. dev. 1.2). The intention in restricting the sample was to eliminate possibly negative answers from people who simply had not tried to obtain help.

This controversy over graduation requirements is not over yet!! The last two questions focused on the Institute would seem to undermine the catalog's value as a student reference and the one previous to it. In the last question of the survey, students were asked why. If any answers were marked, we entered either the most neutral one or U, depending on the question. If any one is interested in making correlations between questions, or between questions and demographic information, please contact Maneesh Sahani (maneesh@ugcs).

Student preference At the time of the survey A month before the survey

What was your understanding of how graduation requirements were determined?

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Jim's Journal

The last question of the survey asked, "How much would you like to see a Community Center built at Caltech?" The response to this question was also positive, with an average of 2.3 (standard deviation 1.2), where 1 meant very much and 5 meant not at all. This is another one of those questions where it may also be useful to consider individual responses as well as the average. Out of the 370 undergraduates who answered question #26, 219 (59.2%) answered positively, and many gave very specific ideas as to the services they would like to see in such a community center. The average result may have been skewed according to the negative response of those who did not know what such a community center would encompass. Those students who had been here at least two years — that is, those entered in 1989 or earlier — the response was slightly less negative, with an average response of 3.8 (std. dev. 1.2). The intention in restricting the sample was to eliminate possibly negative answers from people who simply had not tried to obtain help.

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Dear Dr. Gavin Claypool,

I am writing to share with you some exciting new results from our research on the magnetic properties of human brain tissue. Our team has made a significant discovery that could have far-reaching implications for our understanding of the brain's magnetic properties and their potential biological effects.

We have been conducting experiments to determine the magnetic properties of human brain tissue. Our team obtained samples of human brain tissue from several sources, including autopsies and surgical procedures. We conducted two types of studies in order to characterize the magnetic properties. In the first study, we froze the brain tissue and then dissolved it to determine their magnetic characteristics. In the second study, we used a technique called superconducting quantum interference device (SQUID) magnetometer to examine the magnetic properties of the tissue as is.

In both studies, we observed strong magnetic signals that are consistent with the presence of magnetite, a magnetic mineral that has been found in human brain tissue. This is the first time such strong magnetic signals have been observed in human brain tissue.

These results are important because they provide new insights into the magnetic properties of human brain tissue and suggest that electromagnetic fields associated with MRI and other medical imaging techniques may affect the brain's magnetic properties. This could have implications for the development of new medical imaging techniques and for understanding the potential biological effects of these fields.

We are in the process of submitting a paper for publication in a prestigious scientific journal. We believe that our findings could have significant implications for our understanding of the brain's magnetic properties and their potential biological effects.

Please let me know if you have any questions or if you would like to discuss our findings further.

Sincerely,

Robert Finn
Research Fellow
California Institute of Technology

---

BACTERIA (Aquaspirillum magnetotacticum)
HUMAN (Homo sapiens)

---

The scientist obtained samples of human brain material courtesy of USC's Carol Miller, director of the Alzheimer's Disease Consortium of Southern California. The samples came from autopsies of seven people who lived between 12 to 24 hours after their deaths. (Four of these patients were suspected of having Alzheimer's Disease. The researchers noted no systematic differences between the brains of the Alzheimer's patients and the patients in their magnetic characterizations.) To avoid possible magnetic contamination, Woodford dissected the brain samples using ceramic or Teflon-coated instruments. The samples were transported to a magnetically shielded, dust-free clean room within Kirschvink's laboratory. Kirschvink and his co-workers conducted two types of studies in this clean laboratory. They dissolved the brain tissue and tried to extract any magnetic material present, for visualization under an electron microscope. In the other study, they froze the brain tissue and formed it into cubes. These cubes were examined in a "superconducting quantum interference device" (SQUID) magnetometer to determine their magnetic characterizations.

In the extraction studies, small samples of brain tissue were dis- solved and liquefied to free microscopic particles of magnetite from within brain cells. These samples were placed for a period of at least one week in special glass vials, custom made by Atsuko Kobayashi.
Bridge Without Sam

Jeff Goldsmith

Torture

I am playing in a regional pairs event with a new and relatively inexperienced partner. Things are going well when a local pro comes to table and sits to my left. I do not recognize his partner, though she is obviously a client. I deal myself

*A632 Q4 A065 42

The bidding is swift and inaccurate:

<table>
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<th>ME</th>
<th>PARTNER</th>
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<tr>
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The opening lead is the 2 of diamonds, and I see

- K107
- K10652
- 3
- K105
- K107
- W
- E
- S
- A632
- A065
- A065
- 42

The bidding was a little rough, but the contract is not too bad, though that is just a coincidence. If I can open like mine, then I think partner must only invite game with his.

I start with two aces to lose and two queens to find. I also have three diamond losers that need to be disposed of; I can ruff one in dummy, but I might be unable to draw trumps if I ruff more than that. I shall need the hearts suit, I think, so I win East's Q with the Ace and advance the Q of hearts. East wins this and returns to trap me, I duck, of course, and West's Queen is found under my King. I still need to do something with the hearts, so I cash the K of Clubs. The pro contributes the Jack, which I am confident is a true card. It looks like trumps are breaking 3-2, though I do not know where the length lies yet. It would be dangerous to assume this just from the play, but the pro looked a little annoyed by the trump return, so I doubt that was a singleton Queen.

If West is still breaking, I might be able to play this hand along reverse dummy lines, so I ruff a small heart with the A. West contributes a small club. I think I shall make this hand if the A is on his left, so I lead a club to the King, losing (oops) to the Ace. RHO should now know that I am 5-2-4-2, and should cash their club trick if he has the Q. East wins this and returns a trump. I duck, of course, and then the remaining play goes quickly for me, but slowly for the pro; he has to decide when to use his trump. Each discard comes more slowly.

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Delicatessen

12345678910

Delicatessen is an odd-ball French film directed by Jean Pierre Jeunet and Marc Caro that takes place in a post-apocalyptic world. This film is a blackly humorous drama that focuses mostly on the characters in the story. It is set in a tattered apartment complex that houses several tenants and a landlord who is also a butcher by trade. Each character has bizarre twist to their personality which sets a pace for the rest of the film to follow in a deadly funny way.

Food is scarce in their apocalyptic world where man has become man eater and it becomes the commodity with the most value. However, this film is not about savages and cannibals. Much to the credit of Jeunet and Caro, Delicatessen becomes a film more focused on the people involved in it rather than on their eating habits. The black humor is in its simplicity and in how to make a living in a post-apocalyptic world. This film is not about saving and cannibals. Much to the credit of Jeunet and Caro, Delicatessen becomes a film more focused on the people involved in it rather than on their eating habits. The black humor is in its simplicity and in how they inter-relate with each other. That is what makes this film work and be successful. There are not a lot of twists and turns or a complicated plot scenario to follow in this movie. The beauty in this film is in its simplicity and in how the directors use of the camera with tilting shots and close focus sets the feeling for the action. Overall, this is a well made film that will make you laugh in a strange way.

MOVIE REVIEW

Jim Caron

The Caltech Bridge Club meets every Monday night at 7:15 in the AUPACON SHIP IT.

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AUPACOM
*PRICES FOR STUDENTS/FACULTY & ALUMS ONLY - ID ABSOLUTELY REQUIRED

### SPEAKERS

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### COMPACT DISK PLAYERS

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### DIGITAL SEPARATES

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### CARTRIDGES & TONEARMS

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<td>GRADO</td>
<td>ZF3e+</td>
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N=NEW  D=DEMO  U=USED  F=FACTORY REFURBISHED

**GNP's 10th ANNUAL DITCH DAY SALE!!**
ALL WEEK FROM 10:00 AM WED, 5/13 TO 6:00 PM FRIDAY 5/22*
1254 E. Colorado Blvd.  818.577.7767
<table>
<thead>
<tr>
<th>BRAND</th>
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<td>N D</td>
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<td>LINE STAGE</td>
<td>599 488</td>
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<td>BETA III</td>
<td>A GREAT VALUE</td>
<td>419 135</td>
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<td>SP-9 MKII</td>
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**AMPS (POWER/INTEGRATED)**

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<td>INTG 100 W/CH</td>
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<td>PWR 250 W/CHANNEL</td>
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**RECEIVERS**

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**TUNERS**

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<tr>
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<tr>
<td>1 SONY</td>
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**SIGNAL PROCESSORS & ACCESSORIES**

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**VIDEO**

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<td>1 MITSUBISHI</td>
<td>CK-3526</td>
<td>35&quot; UPRIGHT IN OAK</td>
<td>2699 2199</td>
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<tr>
<td>1 LUXMAN</td>
<td>F-114</td>
<td>3 CH DOLBY SURROUND</td>
<td>850 595</td>
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**PREAmplifiers**

<table>
<thead>
<tr>
<th>BRAND</th>
<th>MODEL</th>
<th>COMMENT</th>
<th>REG$</th>
<th>SALE$</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 YAMAHA</td>
<td>A-500</td>
<td>INTG 100 W/CH</td>
<td>155 U</td>
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<tr>
<td>1 ACURUS</td>
<td>A250</td>
<td>PWR 250 W/CHANNEL</td>
<td>850 748 D</td>
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<tr>
<td>1 NAD</td>
<td>2240</td>
<td>PWR 40 W/CHANNEL BRIDGEABLE</td>
<td>328 175 U</td>
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<tr>
<td>1 AMBER</td>
<td>SERIES 70</td>
<td>PWR 70 W/CHANNEL BRIDGEABLE</td>
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<tr>
<td>3 B&amp;K</td>
<td>ST-120</td>
<td>PWR 60 W/CH</td>
<td>39 295 ND</td>
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<tr>
<td>1 MARK LEVINSON No. 27</td>
<td>PWR 100 W/CHANNEL</td>
<td>4450 3000</td>
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<tr>
<td>1 ACURUS</td>
<td>D1A 100</td>
<td>INTG 100 W/CHANNEL</td>
<td>1000 798 D</td>
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<tr>
<td>1 AUDIO RSC</td>
<td>CLASS.30</td>
<td>PWR TRIODE TUBE DESIGN</td>
<td>2495 1996 F</td>
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<tr>
<td>1 QUATRA</td>
<td>GC-500</td>
<td>PWR 200 W/CHANNEL</td>
<td>835 199</td>
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<tr>
<td>2 AUDIO RSC</td>
<td>D-125mkII</td>
<td>PWR TUBE/HYBRID 125 W/C</td>
<td>4450 3495 F</td>
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<tr>
<td>1 B&amp;K</td>
<td>ST-202</td>
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<tr>
<td>1 B&amp;K</td>
<td>ST-140</td>
<td>PWR 100 W/CH</td>
<td>498 438 ND</td>
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**RECEIVERS**

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<tr>
<td>1 LUXMAN</td>
<td>R-341</td>
<td>USES BI-POLAR X-ISTORS</td>
<td>405 375</td>
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<tr>
<td>2 DENON</td>
<td>DRA-335</td>
<td>35 W/CHANNEL DIG REMOTE</td>
<td>100 225 N</td>
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<tr>
<td>1 NAKAMICHI</td>
<td>Receiver2</td>
<td>37 W/CHANNEL W/REMOTE</td>
<td>400 319 ND</td>
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<td>1 LUXMAN</td>
<td>R-351</td>
<td>USES BI-POLAR X-ISTORS</td>
<td>650 553</td>
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**SIGNAL PROCESSORS & ACCESSORIES**

<table>
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<tr>
<td>ALL</td>
<td>ACCESSORIES (EXCEPT CABLES)</td>
<td>20% OFF N</td>
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<tr>
<td>ALL</td>
<td>SPEAKER CABLE UNDER $4/FT</td>
<td>30% OFF N</td>
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<tr>
<td>4 TERK</td>
<td>WEDGE</td>
<td>AM FM ANTENNA</td>
<td>39 25 ND</td>
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<tr>
<td># CD STOPLIGHT</td>
<td>CD TREATMENT</td>
<td>15 11 N</td>
<td></td>
<td></td>
</tr>
<tr>
<td># PROG DES’</td>
<td>PD-850</td>
<td>CD RACK IN OAK OR BLACK</td>
<td>30 15 ND</td>
<td></td>
</tr>
<tr>
<td>2 NAKAMICHI</td>
<td>SP-7</td>
<td>HEADPHONES</td>
<td>100 69 ND</td>
<td></td>
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<tr>
<td>1 LUXMAN</td>
<td>F-116</td>
<td>PRO LOGIC DECODER ONL</td>
<td>950 799 N</td>
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<tr>
<td>1 LUXMAN</td>
<td>F-114</td>
<td>PRO LOGIC W/3x50 AMPS</td>
<td>800 644 ND</td>
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<tr>
<td>1 TARGET</td>
<td>TT-5T</td>
<td>OLD STYLE</td>
<td>299 270 D</td>
<td></td>
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</tbody>
</table>

**THANK YOU FOR COMING !!! ALL ITEMS ARE SUBJECT TO PRIOR SALE !! PLEASE NO PHONE ORDERS. PRICES GOOD ONLY WHILE SUPPLIES LAST CASH-Chek-VISA-MC-Discover-Financing - SORRY, NO AMEX ON SALE ITEMS CASH REQUIRES A CASH GUARANTEE CARD. INQUIRE WITHIN.**
Clockwise from right: Posing beneath their sculpture, a group of Scurves rest after breaking Dan's stack. The Holly gladiators battle for control in Winnett quad. A group of musicians hijacks the "Enjoy Life" bench for a bit of fund-raising in the Club 69 stack. A group of Darbs construct a community center for Pam Abshire's stack.

Ditch Day
1992

Rag Time on Green
RESALE CLOTHING
for WOMEN
1136 E. Green St. • Pasadena
(818) 796-9924
Wed 10-4 • Mon-Tue-Thur-Fri 10-5 • Sat 10-3

Jim's Journal
Last night Mrs. Peterson was standing on my back, nuzzling me with her paw. I was trying to
fall asleep, but she was too distracting.
Finally she sat at my feet and fell asleep.

by Jim

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Wed 10-4 • Mon-Tue-Thur-Fri 10-5 • Sat 10-3

Last night Mrs. Peterson was standing on my back, nuzzling me with her paw. I was trying to
fall asleep, but she was too distracting. Finally she sat at my feet and fell asleep.

by Jim

MAY 15, 1992

THE TECH
Ditch Day

Inside.

Others wore trench coats and disguises as they solved a Pink Panther Stack. They were fed typical French cuisine: fries, toast, dressing, etc.

At the Air Jordan Stack, techers ate Wheaties, drank Gatoraid, wore Nikes, and lunched at McDonald's. They hung an Air Jordan silhouette from Millikan Library, and one team nearly lost their shorts in a strip basketball shoot-out.

An ambitious robot stack that malfunctioned stirred the most serious sentiments to counter-stack.

When one junior was asked Wednesday night whether he had had fun, he replied, "Yeah, I had fun."
run Emergency Man Fukuda, who it it bills. 1111 Blanche. Style Cut pitting the...'

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Caltech Track Successful at SCIAC Finals

Ned Bowden

Last Saturday was full of excellent running from the Caltech track and field team. The team competed in the SCIAC conference track finals and Caltech took several

The leading scorer for the team was Greg Dukely who placed second in the pole vault and in the 400 intermediate hurdles. Greg admitted to playing with his opponents minds by causing 12" in the vault and then asking the bar to be raised to 14". His strategy worked as many other vaulters faltered. Steve Harkness placed a strong fourth in the shot put despite having a poor day. In the distance events, Ned Bowden placed fifth in the 800m race where he set a personal record of 1:57.18. Brady Monte raised his arms at the end of the 100m final in Ben Johnson fashion as he saw that he had finished sixth and won an All-Conference placing. In the javelin Jeff Martin strutted his stuff by placing second in the conference with a throw over 165'. Emmeline Naranjo closed out her season by running so well that she was All-Conference in four events.

An exciting turn of events for the team came in the last event of the meet, the 4x400 relay. The team entered as the underdog to everyone else. Rob Whiteley led off the race with an excellent leg. Ned went next and managed to give the baton to Ron Siegler with two teams running at the same time. Ron was faster than Ron had run before. In the final leg Dukely caught the two teams in front of him but ran out of gas before he could pass them. The team finished with a season record of 3:35.27.

After the meet Aaron Matzer went to Occidental College to race in the 3000m steeplechase. Aaron had pulled out of the SCIAC meet to rest up for a chance to go to nationals in the steeplechase. The time he needed was 9:13.0 and there promised to be runners in the race who could run sub 9.00 who could pull him through to a good time. Aaron went out strong and ran at a pace just over what he needed to run to qualify for nationals. He was a runner as the University of Redlands who also wanted to go to nationals went out too fast and slowed down at the end. With 700m left Aaron was close to the qualifying time, but he needed to pick up the pace. Coach O'Brien shouted at him to run faster, and he responded. Every hurdle was attacked as Aaron ran an impressive 70 second lap. In the last three hundred meters he raced with everything he had and finished in 9:12.9! Aaron will be going to the national meet in Maine in ten days to represent Caltech.
Women's International Friendship Group will meet on Monday, May 19 at 8:15. All are welcome. It follows the lecture at 4 p.m. in the Dabney Lounge. For more information call Grae Hering at 255-9661.

Caltech Y Exchange meeting will be held in the West Lounge and Dabney Lounge on Monday at noon. The Y opens several times a week to encourage members to attend on the first or third Monday of every month. This week's meeting will be held at 7 p.m. in the Dabney Lounge.

The CIT-KNIT Group meets at lunch on Thursday in the Conference Room (RM 24.1), Caltech. Caltech students, faculty, and staff are encouraged to attend. Weekly topics for May include: 'The Biases of Your Lenses,' 'The Saddest Word in the English Language,' 'The Art of Flirting,' and 'The Science of Love.' For more information call Janis Beckenbach at 356-9258.

Caltech Medieval Renaissance Society will be meeting this week in the Haldeman Lounge. For more information, contact Alfonso Johnson, 348-3583.

Christopher Byrne's "Restoration" as Dean of Students to return to bis job search, will save, save, save! Buy Caltech cards and save, save, save!

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BREAKFAST $2.19

with soft drink or coffee

LUNCH $4.95

with soft drink

DINNER $6.25

Breast of chicken, seafood, lamb, or the day's special

Pizzas

Homemade variety pizza

Specialties

Shish Kabob, Shawarma, Souvlaki-Steak

We cater for all occasions

Buy Caltech cards and save, save, save!

Faculty, Grad Students, Attend, Attend, Attend!

353 S. Lake Ave, Pasadena

Monday and Tuesdays are Beer Days. Half price on beer.

12 MAY 15, 1992

Crisp is sponsoring a workshop "Expanding Your Job Search Options." It will help people with all kinds of jobs search, and provide ideas for those already conflned to job search. We will discuss the current employment market, overcoming burnout in the job search, and developing a plan of action. The workshop will be held in Individual Studies, 3:30-5:30 p.m., in Millikan Chubrom 1.

Students, remember to fill in and bring back your cards, as a card is your permanent job search. You will need another survey, just let us know!