

Spring  
Forward!

# THE TECH

CALIFORNIA

Fourteen  
days until  
Add Day!

Volume XCIII, Number 21

Pasadena, California

April 3, 1992

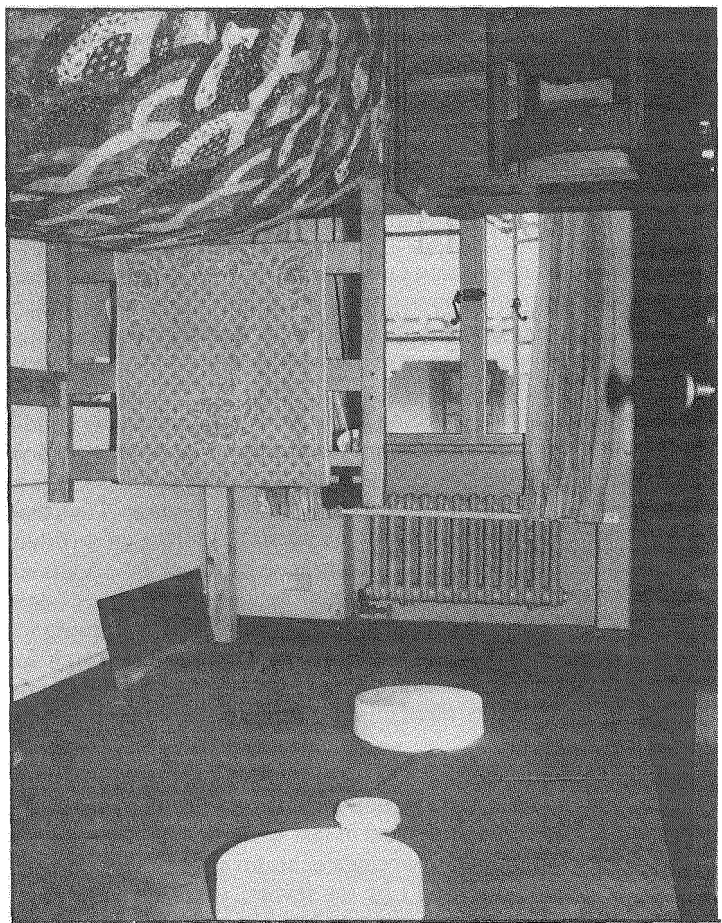


Photo by Chris Ho.

**Upside Down...** Freshman Daniel Chang returned from spring break to that his friendly housemates had inverted his room for him. Notice the radiator near the "ceiling".

## Lucy Guernsey Resigns as Exec. Director of Caltech Y

Lieven Leroy

After three years as the Executive Director of the Caltech Y, Lucy Guernsey has decided to resign, effective this summer. In her position, Lucy provides leadership for the Y staff and student volunteers, by overseeing the budgeting and planning of all aspects of the Y's function. She works closely with many people at Caltech as a coordinator and friend. Since her arrival at Caltech, the Y has become an increasingly important part of campus life, organizing and sponsoring hundreds of campus events and volunteer actions.

Lucy will be going to Seattle Pacific University, where her husband Dennis Guernsey will be developing a Ph.D. program in marriage and family therapy or family psychology. She has co-authored two books with him on related topics. She has applied for the position of Dean of Students at Seattle Pacific, a position similar to the one she holds now.

Before coming here, Lucy was Director of Student Services at Fuller Theological Seminary. She was asked by a friend involved with the Y to apply for the position of Executive Director, which had at that time been held by three different people in three years. Students, the Y Board of Directors, and people who had held the position in the past agreed she would be an excellent choice.

A popular attitude about Caltech students is that they are academically focused to the exclusion of all else, and would never offer volun-

teer time to make a difference on campus or in their community. Determined to prove this view wrong, Lucy spent her early days in her new position meeting with students and administrators to determine what role the Y should have at Caltech. Since then she has recruited many students to organize the Y's activities. She says that she

than a dozen students who are a source of ideas, funding decisions, and organization for almost every campus social event. The Y's best-known contribution is Decompression, a source of food and entertainment just before finals week every term. The Y also helps run Caltech's recycling program, plans camping and hiking trips, coordinates Caltech



Photo by Rajan Ranga.

Lucy Guernsey in her office at the Caltech Y. She plans to resign this summer.

has discovered that Caltech students do care. When students are given an opportunity to help, response is overwhelming. What had been missing was an organization with the ability to recruit and coordinate student volunteers.

Before her arrival, the Y had been suffering from a lack of continuity due to frequent staff changes. The Y Excomm, in theory the source of student input, consisted of one incoming president and one outgoing one. Today, the Excomm is more

volunteers helping at local food banks and shelters, and much more.

Thanks to Lucy Guernsey's vision and desire to help the Y realize its potential as more than a source of funding, Caltech has benefited immeasurably. The search for her successor has already begun, and hopefully by summer a suitable person will be found. Whoever that will be has a tough act to follow. Lucy hopes to keep in touch via the Gnome Club, and says she will miss all of the students.

## Haydn Concert in Dabney

Delores Bing

The Sixth Annual All-Mozart Concert will not include a note of music composed by the venerable Wolfgang Amadeus. In the tradition of other music festivals devoted more or less to the works of one honored composer, Caltech's sixth Mozart concert will focus on one of the honoree's contemporaries. Thus the All-Mozart concert, to be performed on Saturday at 8PM and Sunday at 7PM in Dabney Lounge, will consist of three compositions by Franz Joseph Haydn. Admission is free and a reception will follow the concerts.

Mary Rowe, Fred Upton, and Stephen Leroy, representative from the student chamber music en-

sembles, will begin the concert with Haydn's *Symphony No. 44, "Trauersinfonie"* under the direction of Allen Gross.

The Orchestra will be joined by the Caltech Chamber Singers in the performance of the *Missa in Tempore Belli, "Paukenmesse"* conducted by Don Caldwell. Haydn composed this mass in 1796 as Napoleon's forces approached Vienna; it derives its nickname from the prominent use of the timpani.

Haydn greatly influenced Mozart's style of composition, and is frequently dubbed the "father of the Symphony" and creator of the string quartet. Although Haydn was nearly 25 years older than Mozart, the two composers enjoyed an enduring mutual respect and affection.

## ASCIT Announcements

Korhan Gürkan

**ASCIT Budget Meeting:** The Annual Budget Meeting will still be held on April 12, 1992 from 2 p.m.-4 p.m. However, the meeting has been moved to the Salvatori Room of South Mudd (Rm. 365). All clubs, if you want ASCIT funding for the next fiscal year, please pick

up a form from June Fujimoto, Ruddock 233. These forms are to be returned to June by 5 p.m. April 10, 1992.

**ASCIT Appointed Officers:** Signups for ASCIT Appointed Officers have been up on the wall next to the DRL's Office since Wednesday, April 1. The signups for the following appointed offices will up until Tuesday noon, April 14. The times for the interviews will be announced during that week. If you have any questions, contact Korhan Gürkan, Page 209. See the minutes for a list of the offices to sign up for.

## Women's Glee Club Visits East Coast

Sarah Yoder

The Caltech Women's Glee Club returned last Sunday night from a four-day tour of Boston, almost (but not quite) ready to return to classes, labs, and jobs. 21 members of the Glee Club participated in the tour, giving a total of four concerts. Monica Hubbard, the Glee Club director, and Kate Grabenstein, our talented accompanist, were also on the tour.

The Glee Club arrived at MIT early last Wednesday morning after a long night on a redeye flight, to be greeted by former Caltech Admissions director Dan Langdale, now working for Financial Aid at MIT. He says this department makes him more popular at MIT, but the group was glad to see him, since he had worked hard to find guest rooms for everyone in various dorms at MIT.

A few people also stayed with family or friends in the Boston area.

Wednesday was a free day, for sleep or exploring. Thursday morning was the first, very early concert at the Waring School in Beverly. The concert was short, since the audience was middle school—highschool level and had classes. Afterwards there was a question-and answer session with a science class. The Glee Club was apparently the first guest they had had in their new auditorium.

On Thursday evening the performance was at Pine Manor College in Brookline, a women's school, and their singing group also performed for us, mostly musicals, folksongs, and popular music. Visiting were female students from Japan, eager to talk to Glee Club members and take pictures after the concert at the reception.

Friday's concert was in the Emmanuel Chapel across from Simmons College, another women's college in Boston. They also had a choir that sang several Latin pieces, folk songs, and Robert Frost poems. The chapel had very live acoustics, and it was exciting to sing there.

Saturday, in the Winchester Unitarian Church, was the only full-length concert, and was especially for the alumni in the Boston area who had contributed to the tour. It included the full repertoire as well as a piano solo by Kate, accompanist, a solo by Sandy Kuo, and recorder music by Rebecca Fisher. The Alma Mater was also accompanied by several of the alumni, some of whom were former Glee Club members. The most exciting part for the California natives, however, was probably the snow falling outside that evening.

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Bridge  
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Sam

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## LETTERS

Caltech Y  
Service to  
Tijuana

To the Editors:

Over the past year, the Caltech Y has sponsored volunteer trips to Tijuana, Mexico on a regular basis. The purpose of the trips is to help in the construction of a YMCA community center in an underdeveloped section of Tijuana. Over thirty members of the Caltech community have participated, and some have made return trips.

This community center will serve Tijuana in several ways. It will provide day-care service working mothers, nutrition and health services, literacy classes for adults, and schooling for young children. Although the center was scheduled to open in September, 1991, lack of funding has delayed the opening and the center still is under construction.

The Tijuana YMCA is eager to open the center by May 15, but it cannot do so until construction is complete. The director of the Tijuana YMCA has asked the Caltech Y for help in this undertaking. Beginning with this weekend, the Caltech Y will send a group of approximately five people *every weekend until May 15* to help finish constructing the center. The Caltech Y is asking for volunteers from among the Caltech community. Undergraduates, graduate students, faculty, and staff are *all* welcome to participate. There will be a special need for graduate students and faculty for the pre-fresh weekend trip (April 9-12) and the midterms weekend trip (April 30-May 3). Since transportation is our largest expense, we especially encourage those who are willing to drive their own vehicle to volunteer. More

information and sign-up sheets are listed in the Caltech Y Office. On behalf of the Caltech Y and the Tijuana YMCA, thank you for your support.

Sincerely,  
Daniel Sandoval  
Y Excomm member &  
Tijuana Trip coordinator

Rollerblades  
and Pedestrians

Letter to the Editors:

Several neighbors have called Caltech over the past few months to express their concerns about the proliferation of student rollerbladers and the speed at which Caltech cyclists travel on the campus walkways. In nearly every case, these neighbors have been very courteous in making their feelings known. In the two most recent cases, callers noted that their use of the campus for leisurely walks is a "wonderful privilege" enjoyed by those living close to campus.

To my knowledge, only one visitor has asked for a campus ban on all roller-skating or rollerblading, and that was the result of a near accident involving a youthful non-Caltech roller-skater.

What most visiting neighbors have said, however, is that they appreciate the good manners and good sense used by some 'bladers and bicyclists who announce their presence to pedestrians when approaching from behind. By simply saying "passing to the right," for example, riders can avoid potentially painful mishaps for themselves and for those whom they share the paved campus pathways.

Hall Daily  
Director, Government Relations  
& Community Affairs

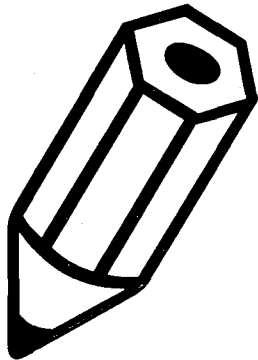
## AVR Survey

To the Editors:

I disagree with the views of Wells, Hartmann, Johnson, and Henling in the March 13 issue of the *Tech*. They imply that it is unfair for Caltech to include student, as well as "real", employees in its average vehicle ridership (AVR) calculation, and suggest that students refuse to fill in the survey.

The fair approach is not to force Caltech to do more than its legally mandated share by sabotaging its survey. Instead, we should encourage lawmakers to impose stricter rules, so that all employers, including Caltech, will have to act to achieve the cleaner air from which all will benefit. Student employees living in Caltech housing should enthusiastically complete the survey, and occasionally remind the administration that the AVR requirement is an incentive to provide adequate, affordable student housing.

Sincerely,  
Martin Regehr



## Editorial: Housing Lottery

Christopher Orth

By now all of the undergraduates should have received their off campus housing lottery cards. All of the freshmen and even the sophomores should take special care to fill these out and not lose them in their piles of weekly junk-mail, even if they do have every intention of living in their on-campus houses. Last year's Housing shortage made it perfectly clear that Caltech does not have guaranteed student housing.

However, Caltech Housing is not out to throw everyone out on the streets. Last year Kim West worked right up to the final days of summer finalizing room arrangements for all of the homeless undergraduates. Now third term last year is a distant memory. Many don't remember that even returning juniors were in jeopardy of not finding a place to live in institute housing either on or off campus. At least in Ruddock house, all of these displaced juniors were ultimately offered a spot on campus, as were most of the sophomores, but by then, most people had settled elsewhere and couldn't take advantage of the offer.

Along with the horror of seeing house picks end short in the middle of the Junior class comes a lot of confused anger. People wonder how Caltech can be so insensitive as to level off-campus student alleys to make parking lots when there is already a housing shortage. Then they discover that new housing won't be available in the near future because out of all the donations Caltech receives, none of the funds are available for student residences or a new residence hall. They begin to wonder if Caltech is really still a institution of higher learning for undergraduates, or if it is becoming solely a place of research for Faculty and Graduate students. These kinds of feelings can only contribute to a detrimental air of mistrust between the students and the administration.

But the situation ended up not being as bleak as it appeared. "Shanty Town" helped set the wheels in motion and every effort was made to house all of the students by the end of last summer. And while there does seem to be some tentative arrangements for a new undergraduate house in the future, this won't be for several years, so until then, arrangements will only be getting tighter. Judging by last year's success, it doesn't seem we should be worried about the outcome this year. The key to an equally successful turnover this year will be making yourselves known, and you can accomplish this by filling out your lottery card and survey, so that even if you don't initially get a spot on or off campus, your name is already in the working. In the meantime, feel free to address any suggestions or complaints (concisely) to *The California Tech*.

The California Tech meets  
every Friday at 12:15 P.M.  
in the Coffeehouse.  
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## THE CALIFORNIA TECH

Volume XCIII • Number 21  
April 3, 1992

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1201 East California Boulevard  
Pasadena, California 91125  
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Published weekly except during examination and vacation periods by Associated Students of the California Institute of Technology, Inc. The opinions expressed herein are strictly those of the authors.

Letters and announcements are welcome. All contributions should include the author's name and phone number and the intended date of publication. The editors reserve the right to abridge and edit all submissions for literacy, expediency, or anything else. Turn in copy (preferably on Macintosh 3.5 inch disk) to the *Tech* mailbox outside SAC room 40. The deadline for copy is Wednesday at noon; for announcements, Tuesday at 5 p.m.

The *California Tech* is distributed free. Issues will be mailed off-campus upon receipt of \$10 per year to cover third-class postage and preparation costs.

Printed by News-Type Service, Glendale.  
ISSN 0008-1582

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LOVED  
ME**

Baxter Lecture Hall  
7:30 and 10:00  
\$1.50 for A.S.C.I.T.  
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Roger Moore is 007



## outside view

*Khurram Dastigir-Khan*

### The "High Adventure" of Science

In these pages, I have written about the slave-labor nature and the lifelessness of my classes. Some will argue that the fault lies with me (engineering bias here). I partially agree with them. Very rarely, if ever, I have found the wonder of science being transmitted to me in class. Where is "the joy of insight" into the workings of nature? What is left of my pedagogical education, to use the most abused adjective of our age, is merely *interesting*.

During spring break I came across a book of very interesting (!) essays on science, *Late Night Thoughts on Listening to Mahler's Ninth Symphony* by Lewis Thomas (Viking, 1983). Mr. Thomas is an elegant writer, and his expression was illuminated by a humanist view of science and a concern for the proper place of technology in the human prospect. Amongst his many reflections I discovered, to my joy, that Mr. Thomas shares my sentiments on the lackluster nature of science education. Without further ado, therefore, I will let Mr. Thomas make my point.

"The worst thing that has happened to science education is that the great fun has gone out of it... Very few see science as the high adventure it really is, the wildest of all explorations ever undertaken by human beings, the chance to catch close views of things never seen before, the shrewdest maneuver for discovering how the world works. Instead they become baffled early on, and are misled into thinking that bafflement is simply the *result of not having learnt all the facts*. They are not told, as they should be told, that everyone else—from the professor in his endowed chair down to the platoon of postdoctoral students in the laboratory all night—is baffled as well. Every important scientific advance that has come in looking like an answer has turned, sooner and later—usually sooner—into a question. And the game is just beginning. (emphasis added)

...There is, I think, such a shared view of the world. It is called bewilderment. Everyone knows this, but it is not much talked about; bewilderment is kept hidden in the darkest closets of all our institutions of higher learning, repressed whenever it seems to be emerging into public view, sometimes glimpsed staring from attic windows like a mad cousin of learning. It is the family secret of twentieth-century science, and of the twentieth-century arts and letters as well. Human knowledge does not stay put. What we have been learning in our time is that we really do not understand this place or how it works, and we comprehend our own selves least of all. And the more we learn, the more we are—or ought to be—dumbfounded."

## ASCIT Minutes of 3/31/92

*Korhan Gürkan*

Present are the BOD minus Ben, Bryce, Phil Cofield, Eric Stout, Fru, Gavin Claypool. ASCIT Meetings are going to be held at 10:30 p.m. every Tuesday this term.

**Budget Meeting:** The Annual Budget Meeting will still be held on April 12, 1992 from 2 p.m.-4 p.m. However, June was unable to get Millikan Board Room because of some new regulations. So, the meeting has been moved to the Salvatori Room of South Mudd (Rm. 365). She also mentions that no club has returned their proposal forms. Clubs, if you want ASCIT funding for the next fiscal year, please pick up a form from June Fujimoto, Ruddock 233. These forms are to be returned to June's room by 5 p.m. April 10, 1992.

**ASCIT Office:** Robert Cobb wants to take away the ASCIT Office from the BOD. He has some new plans for the SAC. The BOD decides that the office is crucial to our operation and we should try to keep it.

**ASCIT Movies:** Fru needs funding for the movies the next two weeks. The BOD decides to give him \$1000 (5-0-2). He also wants ASCIT funding for the new sound system. The BOD tells him to see us at the Budget Meeting on April 12.

**Dabney** wants to use their non-alcoholic social event money this weekend. The BOD gives them

\$100 (7-0-0).

**Earth Day:** Phil is back again to ask for money for Earth Day which is going to be held on April 17. The Caltech Y has already gotten money from different sources. He needs \$135 from ASCIT. The BOD approves (6-0-1).

**Ath Man Bryce** brings all the money he's collected along with the material transfers to the meeting. The BOD kindly tells Bryce to take everything to the cashier. He also asks for money for varsity jackets and letters. As usual, he does not know how much the exact cost is. The BOD moves to give him \$560 for the jackets and about \$290 for the letters (5-2-0). Meanwhile, it is suggested that it is about time that Bryce gets a clue. (13-0-0).

**Graduation requirements:** Mike brings up an issue about graduation requirements. As you might have noted there was a letter in the last issue of the Tech which stated that students should be allowed to graduate with the requirements stated in any of the catalogs that came out during their stay at Caltech. Mike talked to some people in the administration and they think that the BOD should send a proposal on this issue to the Curriculum Committee. The BOD is strongly in favor of this idea and delegates Rob to draft a proposal. Meanwhile, Rob is still working on his committee and the BOD is still waiting for Debbie's input on the

CLUE...

It looks like Derek is pretty much done with picking his committee members. He even sent out letters to house social chairmen. Also, he reminds everyone that the ASCIT Formal will be on May 8, 1992. He will put signups around the campus and in all the houses next week.

**ASCIT Copier:** The new ASCIT copier is located in the copier room at the SAC. The machine is coin-operated only and the price is 5¢ per copy. Todd needs to secure it. Well now that the copier is here, your Upperclass Director at Large, Todd McLaughlin, is at your service. He can be contacted at Page 207 (578-9755) on any questions about the van and the copier.

**Appointed Officers:** Signups for ASCIT Appointed Officers have been up on the wall next to the DRL's Office since Wednesday, April 1. The signups for the following appointed offices will up until Tuesday noon, April 14. The times for the interviews will be announced during that week.

Appointed offices are: Big T Business Manager, Big T Editor, California Tech Business Manager, Election Chairman, Little t Business Manager, Little t Editor, Publications Darkroom Chairman, Totem Editor, and the Coffeehouse Users Group Representatives.

For a copy of the ASCIT Minutes, please contact Korhan Gürkan, Page Rm. 209, 405-0475, Box 565.

## News from the Caltech Y

*Lieven Leroy*

Greetings from the Y. Yeah, it was a short break, I know. Hang in there, next time you get three months.

The first Friday of the term brings the first noon concert of the term. Bill Steed and his woodwind quartet. Out in front of Winnett, as usual. Bring lunch, hang out.

This weekend, April 3-5 student volunteers will be participating in the Outward Bound program with local high schoolers and in the construction of a YMCA center down in Tijuana. The building project wants to kick into high gear, so there'll be a trip every weekend for about six weeks now. If you want to help out, contact the Y. It's a great trip, for a good cause.

Clubs interested in taking part in this year's INTERNATIONAL DAY should come to our second organizational meeting, Tuesday, April 7th, at noon. International Day draws a couple of thousand

students, faculty, staff, and their families. Clubs can get money to provide a taste of ethnic food, arrange for music or dancing from their country, etc. This year, I-Day will be May 15th. A great mix of cultures, martial arts demos, and more!

Jean Clottes will be speaking on the new cave art discovered near Marseilles on Tuesday, April 14th, 4PM in Baxter Lecture Hall.

Earth Day will be celebrated on April 17th! Look for the recycled brown paper bags stuck to the walls with information. How else can you announce Earth Day?

Magic Mountain and Sea World tickets went fast, now we've got discount tickets for Knott's Berry Farm. \$18.45, about five bucks off. Come by the Y if you're interested.

Deadline for STUDENSKI AWARD applications is APRIL 9TH. The Studenski Award is \$3000 awarded to an undergrad during the summer, specifically to do something nonacademic! The award's

intent is to give the winner time off to step back and figure out what they want to do with their life. Submit a page or two explaining where you would like to go and what you would like to do. More information at the Y.

As some of you know, the Y organized several trips over Spring Break. Everyone is back, in one piece. The ski trip to Mammoth and the camping trip to Joshua Tree were drier than the mountain biking trip, but everyone had fun anyway. Amazing what a couple of days away from Tech will do for you... We're prone to organizing this stuff, and we provide most of the gear like tents and stoves, so check in with us if you'd like to come along.

The Y, all-round doer of good things, is located on the second floor of Winnett Student Center. The Y Excomm meets Mondays at noon in the Y Lounge. Information and sign-ups for events are available at the Y office. Just stop by or call x6163.

CALTECH *public events*

### THE FLYING KARAMAZOV BROTHERS

FRIDAY, APRIL 10, 1992  
\$27.50 - 25.00 - 22.50

YOLOCAMBA I TÁ  
Music of Latin America  
SATURDAY, APRIL 11, 1992  
\$22.50 - 20.00 - 17.50

MARNI NIXON  
"Voice Over" Singer for the Stars  
SATURDAY, APRIL 25, 1992  
\$25.00 - 22.50 - 20.00

CAPITOL STEPS  
Political Satire  
FRI. & SAT., MAY 1 & 2, 1992  
\$27.50 - 25.00 - 22.50

All events held at 8 p.m. in Beckman Auditorium.

Caltech Students receive HALF PRICE tickets when bought in advance, and \$7.50 RUSH TICKETS on the Friday before the show.

**Call the Caltech Ticket Office on X4652 for information**

### CALTECH SUMMER COUNSELORS/TUTORS

The Caltech Young Engineering and Science Scholars (YESS) Program and The Caltech Bridge Program will be hiring students interested in counselor/tutor summer positions.

The YESS program will run from July 5 to August 15 and will enroll about 40 high school juniors from diverse backgrounds and regions in the U.S. The YESS students will spend 6 days a week in laboratories, seminars, discussions, lectures and field trips.

The Caltech Bridge Program will serve about 15 newly admitted freshmen for 6 weeks beginning August 5. The students will be taking courses in Calculus, Physics, Chemistry and Writing.

Applications and Position Descriptions are available in the Relations with Schools Office, 0-54 (former MOSH office). Applications are due April 17.

# NetChess with Ted Turócy, David Lyon

**Ted Turócy**

In our first installment today, I'll be discussing an interesting position which occurred in a match between myself (White) and my net.friend Ra (David Lyon, Iowa State, Black) on the Internet Chess Server (for more information, see the end of the article).

After 12 moves, I found myself in this position:

```

r - - - k b - r
p p - - - p p -
- - q - p - n -
- - p - p - - -
- - p p - p b p
- p - p - n p -
p b - - - - p
r n - q - r k -

```

This is an even position, well, at least it was until I played 13 Qd2??, opening the floodgates, with 13 ... Bxf3 14 Qf2 (for damage control) Bh1!? It is this last move which intrigued me substantially while

playing the match. At the time, I was unsure if it was sound; but Black does have a very strong attack here, which he will develop in the following few moves. Additionally, note (this will be a theme) that Bh1 keeps the White queen restricted in that it needs guard against the possibility of Qg2 mate. My plan was to attack at e4 in an attempt to isolate the bishop and give me room to breathe. 15 Nd2 hgx3 16 hgx3 (a forced move)

Be7 With this respite while Black prepares the next wave, White has time to develop the counterattack. 17 Rae1 Bh4 18 gxh4 This is an excellent play by Black, as we will see momentarily. gxh4 is forced as 18 ... bxxg3 leads to sure mate. 18 ... Nf4 This threatens the winner Nh3+, and so it is clearly superior to Nxh4. But, at long last, White has a bit of room to maneuver. 19 Qg3 Rxh4 20 Ne4 (the long awaited counterattack!) 20 ... Nh3+?? 21 Kh2 Nf2 Here is Black's downfall.

The problem is Black has hung

too many pieces and can no longer press the attack. The best solution would have been Ng6, which unhangs both rook and knight, possibly followed by o-o-o and Rdh8, renewing the attack with even greater vigor, and a sure win...

22 Qxh4 Nxd3 23 Re2 Nxb2 24 Rxh1 and the attack has been thoroughly quelled, and White is guaranteed to be up a rook or knight 24 ... Nc3 25 Qh8+ and Black is lost. Black here resigned due to time pressure. The verdict on Bh1: I find it to be sound. From that position, mate can be all but forced, and White's pieces, particularly the queen, are hampered. But the later play brings up a point which I hope to further exemplify in the next installment: when to press the attack and when to regroup.

Now, for the second half of our feature: The chess problem of the week. This puzzle dates to about 1266, making it one of the oldest extant problems in modern chess.

White to play and mate in 2.

```

- - - k - - -
R - - - - - R
- - - n - - -
- - - - - - -
- - - - - - -
- - - K - - -
- - - - - - -

```

The solution is on page 6.

The Internet Chess Server is currently reachable by "parsifal.umkc.edu 5000". It is open to everybody; however, if you register, record will be kept of all matches and USCF-style ratings are computed. Players of all skill levels are encouraged to participate, and it is always easy to find a match at any time of the day, as players log in from all over the world. An Internet Chess Tournament is also in the planning stages. For more information, feel free to email me as magyar@hss.caltech.edu.

## IHC Mins

**Ben Smith**

Present: Kate Quinn [Bl], Alf Mikula [Da], Rich "Tigger" Baltzerson [Fl], Paquito Gomez [Pa], Joanna Wills [Ri], Ed Etzkorn [Ru], Debi Tuttle, Brian Cooper, Jeff Pasquino, Jon Lange, Steve Heise, Karen Ross, Bryce Elliott, William "CZR" Cesarotti, Karin Johnson, Ben Smith [Chairman & Secretary], Rich Benzinger and Rob Rickenbrode [Li] showed up late.

Meeting began at 2105 1 April 1992.

Rich Benzinger took notes for the Minutes.

Karin Johnson says that the presidents need to sign up for third-term hovse BoC talks. As previously, they will take place after dinner, last about an hour and a half, and feature high-calorie snacks. The hovses choose dates. Hovse BoC reps will announce the meetings in each hovse.

The deans want the email addresses of those presidents with accounts. These were collected.

Ben says that Walker Aumann wants to know how many on-campus members of each hovse have their own Pac Bell phones in their rooms. The campus phone people are worried about the demand placed on the campus network by all the additional phones. Hovses should pick their frosh camp UCC's. Deans' UCC's will be picked by the deans and the IHC at a later date.

Discobolus: Blacker has challenged Lloyd in fencing. They will fence this weekend. Fleming is next to challenge.

CZR says that the programming board will be sponsoring a bed race on Saturday the 18th. Hovses will be reimbursed up to \$100 to build a bed, complete with wheels, etc., to be raced down the Court of Man. There will be trophies for speed, style, creativity, etc. In 'n' Out will cater the event. Information will be forwarded to the hovses. Social teams from Fleming and Ruddock have yet to contact the programming board. Hovses should get lists of their current social teams to Rob Cobb's office. Kate says that the programming board should furnish a social calendar to be used by hovse social teams for coordination.

[2120: CZR, Karin leave]

Prefrosh weekend. Ben passes out a copy of a regulation change from last year which isn't in the little t. Hovses should announce this change. General remarks: A hovse can be held responsible for the actions of each of its individual members. The IHC must approve social events and publications in advance. Joint social events are encouraged. No Alcohol will be served to prefrosh! On the weekend, prefrosh may be taken out to eat in the Pasadena area, provided that they pay for their own food.

Some hovses present their plans for prefrosh weekend, all of which are approved:

Ricketts will probably have a fire, and will have ice-cream sundaes in its lounge.

Page, Ruddock, and possibly Lloyd will have a party.

Fleming will go to the Ice House. Ruddock will publish a BFD.

The Blacker Social calendar for April (the calendar lists events up to and including prefrosh weekend. The remainder of the calendar is

continued on page 5

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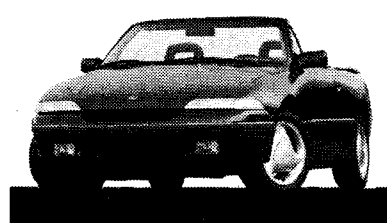
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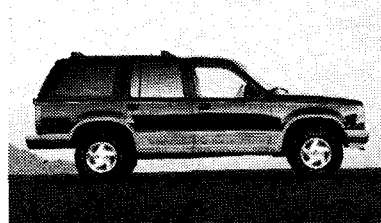
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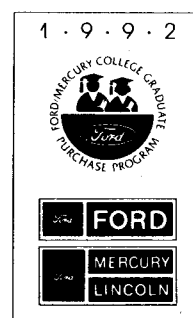
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# IHC Mins

continued from page 4  
labeled classified.)

There doesn't seem to be much enthusiasm in the hoveses for the talent show that was proposed a while back.

Ben reminds everyone to make sure that people fill out their lottery cards. It seems that Kim will go to Business Services with the number of lottery participants minus participants successfully housed on campus; consequently, students positive of on-campus space probably won't help illustrate the need for housing by entering the lottery, but their responses to the survey will still be very useful.

Brian Cooper asks whatever became of the baseball issue. Ben recaps, saying that the IHC approved it, but that the athletic department and Dan Bridges thought the concept ill-advised, and were unwilling to furnish any equipment. Tigger points out that Dan Bridges's problem seemed primarily to be the lack of cups, but that since use of cups isn't mandated by NCAA rules, there's no particular need for them to be supplied to all participants.

Hoveses should get current lists of their Ath teams to Bryce.

Rob is supposedly en route from Lloyd; Kate suggests that everyone hide.

Ben reports back about the prospect of issuing sets of campus keys to hove presidents. The distribution of keys to each building is the responsibility of one person in each building. Consequently, getting all of the building key people to agree to furnish front door keys to presidents would be virtually a political impossibility.

2140: Karin returns. Rob Rickenbrode arrives. Everyone but Ben and the presidents clears out, to start the interviews for IHC secretary.

The IHC selected Karen Ross as the new IHC Secretary.

The meeting ended at 23201 April 1992.

# Seniors Only

Jonathan N. Liljeblad

*"How do I say goodbye, to what we had,  
The good times that made us laugh, they will come back...  
...And I'll take with me the memories  
To be my sunshine after the rain,  
It's so hard to say goodbye to yesterday..."*

All right, yes, it is true, the "TECH WAS HELL" letter jacket is here. Due to popular demand, if you want one come by my room (218 Ruddock) and I'll tell you where to go and also how to save considerably more money than I did. If you don't know what I'm talking about, ask Chon Torres or Phil Pipping or T.J. Creath.

Anyways.

It's been somewhat of an experience being a senior here at Caltech. More so than I remember compared to high school. I dunno, I suppose it could be because I'm older, or that the people here are smarter, or maybe that it's just Los Angeles. But whatever the reason, it feels different.

Time seems to be passing so much more quickly—first it was registration, then it was mid-terms, and now it's finals. Snap. Just like that. First it was Hassle Week, then it was Christmas, and now it's spring. This year has become just one long blur melting in between days flowing quick and steady and smooth over the images of school and sun passing by...

Snap.

Just like that.

There are the applications for graduate school which filled my months and have now become the markers in my time: deadlines for the beginning, telephone calls and campus visits for the interim, and soon the trickle-turned-freshet of letters that will direct what I will do for the coming year. No days, no weeks, no months, just the turn of letters and the feel of envelopes. Just waiting...

And then, of course, there is something else.

It didn't really hit me until last weekend, during the party.

Let me explain.

All through this year there has been the increasing isolation between those of us who are seniors and the rest of you who are not. Not in the physical sense, like reclusion or shunning. But more in terms of perspective. For me personally, it's been a sense of distance, removal,

from the freshmen running through the halls, the students working in their rooms, friends talking about life on campus. It's been the increasing sensation of images of others going on about their experiences here. About others fully engaged in their lives here. About them buried within the fabric of this institute.

I've been thinking about it for a while, but I suppose it's all confirmed now. Especially after the party.

I dunno, I couldn't get into it. Not that it was bad—everybody seemed to be enjoying it. But I just didn't feel like it. Just didn't feel a part of it all.

I don't belong anymore.

But then again, I never did.

The emotions and feelings have mixed and gathered over the years, and instead of going away they just seem to get stronger...There's something else, you know? I mean, there's more to life. I guess it's just that now I can suddenly see the future with graduation just on the hill, and that also too I can think much more about life than I ever could while listening to Fuller, Politzer, Koonin, and all the other profs here.

...There's a lot more...

More than that "Anyplace is better than here" mentality, it's the realization of "What now?" The return of the same emotion I had as an adolescent of "I want to go hard and far and high and see everything I ever wanted to see and who knows maybe there is something way way way up on high..."

And all the memories that pile up in a jumble of pictures and words and sounds that tie me here to everything around me and to all of you and this school with its history and names and aging old buildings, and all the regrets and sorrow and frustration over all the disasters and fiascos and neverending obstacles that filled my days here with more than I ever knew, and everything everything everything...

But this nothing more than the ravings of a foolish young man who knows no better. I have to keep moving. I have to continue onwards. At long last, it's time to go.

It's time to go.

*"...I don't know where the road is going to lead,*

*All I know is where we've been and what we've been through...*

*If we care to live tomorrow, I hope it's worth all the pain*

*It's so hard to say goodbye to yesterday...*

*...And I'll take with me the memories*

*To be my sunshine after the rain,*

*It's so hard to say goodbye to yesterday..."*

— "It's So Hard to Say Goodbye to Yesterday"

— Boys II Men



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# ENTERTAINMENT

## Bridge Without Sam

Jeff Goldsmith

### On the Tablecloth

Playing in a regional pairs event at the Pasadena nationals, we come to the table of a noted expert, distinguished by the presense of a tablecloth, the only one in the room. I pick up in third chair:

♠4 ♥6 ♦A862 ♣AKQ10842

Partner opens 1♠, RHO, the expert, bids 4♥, and I have a problem. I try 6♣, which seems about what this hand is worth, and all pass. Dummy hits and, perhaps coincidentally, I am in a fine contract.

♠ AK1063  
♥ J7  
♦ K97  
♣ J74

♠ 4  
♥ 6  
♦ A862  
♣ AKQ10852

The lead is the ♥2, which righty wins with the Ace, fooling no one. She thinks for a little while and returns the ♣3, which I think is a mistake, but we shall see. I think a diamond would probably be best, or perhaps a heart, but my hand is entirely unknown to her at trick two.

How are my chances? I have seven club tricks and two Ace-Kings, for eleven tricks. If spades are 4-3 or QJ doubleton, I have twelve tricks, which is about 65%, so I have a chance. Is that likely? Hearts are known from the lead to be 7-3. It looks like trumps are 2-1 and there is no void on the right due to the absence of a Lightner slam double. RHO could be 3-7-2-1, so establishing spades looks like a good shot. Are there any other chances? Yes! If LHO has five spades and RHO has the top three hearts, there will be a double squeeze around diamonds. That is why a diamond return would have been best, forcing me to give up the double squeeze, though it would leave me with the possibility of a simple squeeze against LHO in spades and diamonds. That would require RHO to be 2-7-2-2, which is possible, but unlikely. Alternatively, LHO could have ♦QJ10, which would account for RHO's reluctance to play diamonds.

My next move ought to be to test spades and see what I can find out about the hand, so I play the ♣8, covered with the 9, and won with the Jack. Top spade, spade ruffed high, and ♣5 to the seven have drawn trumps, RHO pitching a heart on the second club. I cash the other top spade, and righty pitches another heart. I pitch a diamond and take stock. I need a squeeze. RHO was clearly 2-7-3-1. That means a simple squeeze in the pointed suits will not work, so I am reduced to a double squeeze, hoping RHO has the ♥AKQ.

What if she doesn't? The ♥J will be a one-card menace against both opponents, which is normally worthless, but just in time, I realize that LHO will be under pressure in three suits. If he misses the squeeze and pitches his heart honor, I'll have my double squeeze, but I remember that the doubly-guarded one-card menace is an element in the double guard squeeze, a rare bird indeed. What does that need? I need LHO to have two of the top three diamonds. Let's try it, but I shall need to be careful. I run the clubs, pitching one spade and (careful, now) the nine of diamonds, leaving:

♠ 10  
♥ J  
♦ K7  
♣ —

♠ Q  
♥ Q  
♦ Q10  
♣ —

♠ —  
♥ K  
♦ J43  
♣ —

♠ —  
♥ —  
♦ A86  
♣ 2

On the last club, LHO is pickled. A spade is obviously fatal, and a diamond allows me to cross to the ♦K, dropping his Queen and finessing against partner's Jack on the way back, so he pitches the ♥Q. I toss the spade from dummy and RHO is squeezed in hearts and diamonds, so she concedes the rest.

The Caltech Bridge Club meets every Monday night at 7:15 in the Red Door Cafe and holds lessons for new players every Tuesday night in 72 Jorgenson Hall at 8:15. Everybody is welcome; call Jeff Goldsmith at x2818 for details.

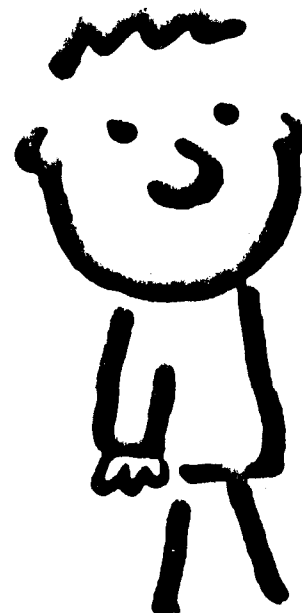
## Chess Solution

Ted Turócy

The solution:  
The key move is White's 1 Rhg7. Black has only two ways to respond: (1) a king move, which results in 2 Ra8 or Rh8 mate or (2) a knight move, which gives 1 ... Nb7 2 Ra8 mate; 1 ... Nf7 2 Rg8 mate; 1 ... Ne8 2 Rg8 mate; or 1 ... Ne8 2 Ra8 mate. Note that Black cannot check with a knight move.

a	b	c	d	e	f	g	h
1	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—
5	—	—	—	—	—	—	—
6	—	—	—	—	—	—	—
7	R	—	—	—	—	—	—
8	—	—	—	—	—	—	—

White to play and mate in 2.



## Flying Karamazov Brothers at Beckman

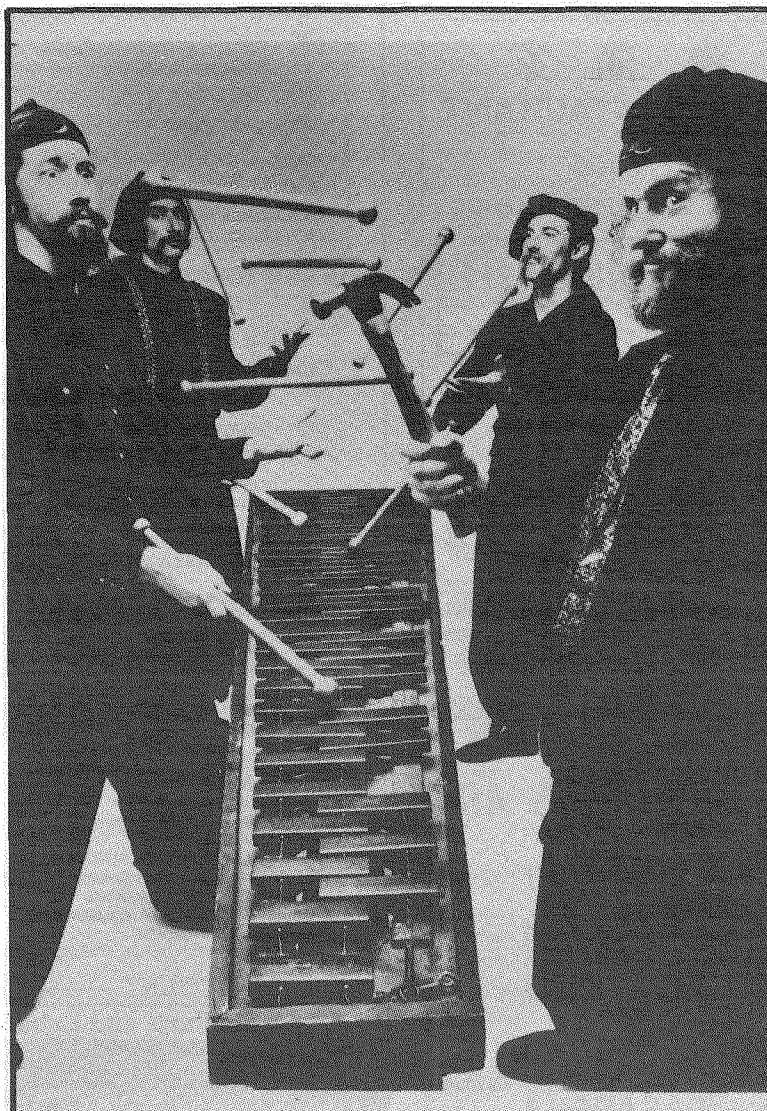
Cara Stemen

The Flying Karamazov Brothers present their latest production, "Theater of the Air" on Friday, April 10 at 8PM in Beckman Auditorium.

Written and performed by the Karamazov Brothers, this show brings together a variety of discipline and technologies. Included is their traditional juggling of everyday items such as sickles, hatchets, torches, raw eggs, and champagne. With the addition of synthesizers, miles of cable and specially designed instruments, this production is a tribute to Karamazovs' musical inventiveness.

The centerpiece of all the Karamazovs' shows offers the ultimate in audience participation. In "The Gamble," the audience is invited to bring impossible objects for the troupe's Champ, Ivan Karamazov, to juggle, as long as the objects are heavier than an ounce, lighter than ten pounds and no bigger than a bread box.

Tickets to this event are priced at \$27.50, \$25.00, and \$22.50. Caltech students (with I.D.) can purchase half-price tickets in advance and \$7.50 Rush Tickets beginning on Friday, April 10 (subject to availability). Caltech faculty and staff receive \$2.00 off on tickets bought in advance and half price tickets on Friday, April 10. Tickets can be purchased at the Caltech Ticket Office.



The Flying Karamazov Brothers will appear at Beckman Auditorium on Friday, April 10, 1992.

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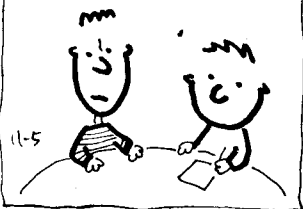
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Jim's Journal

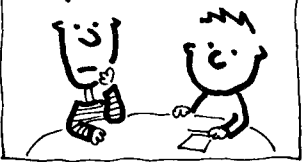
I helped Tony with his resumé today.



We sat around and tried to make his job experiences sound really good.



He was getting frustrated because he's only worked at a grocery store, an ice rink and the shoe store.



"These jobs make me sound like just some boob who's never accomplished anything!" he said.



by Jim



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SPORTS

Caltech Invitational Track & Field

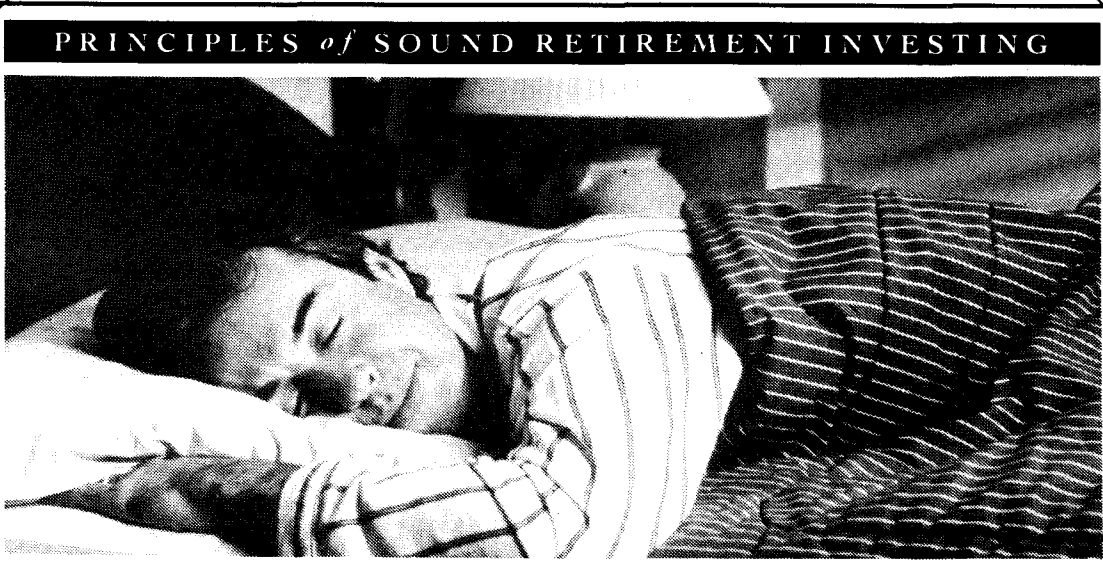
Ned Bowden

On March fourteenth Caltech was the site for an invitational track meet featuring Redlands, La Verne, Whittier, and your own Caltech athletes. The meet was scheduled to finish right before Decompression, so the track athletes would not have to miss the food and fun. Four Caltech men took first place in an event. Rob Whiteley, better known as Mercury, dashed the 100m in 11.3 seconds to win that event. Andrew Zug left the field behind in the 5000m to take top honors. In the pole vault, big man Kay Miyake soared to the sky and left the others with their necks sore. The 800m saw Ned Bowden lead from start to finish in a personal record of 1:59.9. The track was the sight of more mayhem as Ron Steiger broke through the 4:30 barrier in the 1500m and came in at 4:29.9. Ryan

"I Wish I Was A Distance Runner" Naone came through the 400m in 56.6 seconds. In the 200m sprint Rob Whiteley continued to excel and came through in an impressive 23.3 seconds - good enough for third place. Teru Miyake tested his ability in the 100m dash as he ran a 12.3 seconds. As William Glenn would tell me, the sport is track and field, and we did have some strong performances in the field events. Andy Crews continued to improve in the long jump and the triple jump as he flew 41'10" in the latter event. Rob had an "off day" in the high jump but still placed second with a jump of 5'8"— have some more off days like that, Rob. Twin Jeffs, Martin and Dickert, tossed the discus 111'2" and 87'7" respectively. The javelin was another strong Caltech event as Matt Metz came in second with a throw of 154'8". No one

should overlook Jeff Martin's attempt to show that short, buff guys can do the triple jump as he luckily made the pit with a leap of 31'1-1/4". In the previous meet freshman Amy Oldenberg set a new Caltech record in the discus with a toss over 103 feet. She went looking for blood in the Caltech Invite but came up short with a throw of 94 feet. The coaches believe that she shows more real potential for the next few years of her eligibility than the starting five on the University of Michigan's basketball team. Several excellent performances were given by the women who were happy to have a meet during finals week so they would have something to do with all of their free time. Jessie Haldeman ran the 200m in 29.3, high jumped 4'0", triple jumped, and long jumped. Rumor has it that she recently had several

teeth removed so she could hold a relay baton in her mouth to keep her hands free to run with. Read about it in the Inquirer. Jen Remine came back with a vengeance in the shot put as she took a close third. Teletha "T" Derrington threw the javelin nearly 59' despite feeling ill. Alice Chan took a break from studying to compete in the 1500m and 800m races. Megan Donahue, a close associate of the track team, set personal records as she took second in the 1500m and 800m races. Finally, J.M. Gimbel raced the 100m in a fine 14.2 seconds and the 200m in a strong 29.4 seconds. The last Caltech Invitational Track and Field Meet is this Saturday. The action starts around noon. Come to compete or just to watch and get a tan.



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## WHAT GOES ON

## NOTICES

**Guitar Classes** for Spring quarter will meet on Tuesdays starting Mar. 31 in Rm. 1 of the SAC. Times: Beginning-4:30 to 5:30, Intermediate-3:00 to 4:00 and Advanced-5:30 to 6:30. Classes are free to Caltech students and other members of the Caltech community. Undergraduates can receive 3 units of credit. Private instruction on any level can also be arranged. The instructor, classical guitarist Daryl Denning has an international background in recording, performance and teaching. He can be reached at (213) 465-0881.

**ASCIT Budget Meeting** - The annual ASCIT Budget Meeting will be held in Millikan Board Room on April 12, 1992. If you need to get ASCIT funding for your club next year, you need to fill out a Budget Proposal Form. You can obtain these forms from June Fujimoto in Ruddock Rm.233. The forms are due by 5 p.m. April 10, 1992.

**HUM 132 History of Soviet Film, Part 2** has been added to the spring quarter schedule. This series covers the years from the 1930s up to the Glasnost era. The films will be screened at 7:30 pm on alternate Tuesday evenings in Baxter Lecture Hall, beginning with *Alexander Nevsky* on April 7th, followed by *Ballad of a Soldier* on April 21, *Kommisar* on May 5, *Scarecrow* on May 19, and *Little Vera* on June 2. Admission to the film series is free and open to the Caltech community.

**Attention Fishermen!** Beginners fly casting lessons are being considered to start 3rd term beginning the first week in April, on Wednesdays from 5:15-6:15 pm. The class is open to all students, faculty and staff. A limited number of rods and reels will be available. Basic fly casting techniques will be stressed.

**1992 Camp UCC's and Helpers** - The Deans are interested in hearing from you if you would like to attend New Student Orientation as a UCC and have not already been chosen by your House, or to attend as a Deans' Helper. Camp is scheduled for Wednesday, Sept. 23 thru Friday, Sept. 25. Submit a brief written description of your unique qualifications (campus activities, talents and why you want to attend camp) as a UCC or as a Deans' Helper to the Deans' Office, 102 Parsons-Gates, by Monday, April 20, 1992. We hope, with your help, to add to the diversity of the Camp experience for the new students.

**Street-Dancing Club** - Anyone interested in joining a new Street-Dancing Club, please contact Eddie @ 449-8840 or Lavar @ x6180 or Jon @ x6182 or send questions to mailbox 861.

**Wanted: Books!** - This year's annual book sale is scheduled for Friday, May 29, and members of the Friends of Caltech Libraries are preparing now by collecting new and used, hardback and paperback books from members of the Caltech/JPL community. Donations in all subject areas are needed. Bring donations to the first floor of Millikan Library during the week between 8 a.m. and 5 p.m. A special "Donations Saturday" is planned for May 9, when refreshments, as well as help in carrying books, will be available between 10 a.m. and 2 p.m.

**Caltech's New Coordinator of International Student Programs** - Parandeh Kia from Oregon State University has been selected as the first Coordinator of the International Student's Programs. The selection was made by search committee which evaluated over 100 applicants for the position. Parandeh is set to arrive on April 28th. The International Student Office will be located on the first floor of Lloyd House, Olive Walk.

## EVENTS

**Health Fair Expo '92** - April 3rd to the 12th. Free health screening and information will be available at several sites around Los Angeles. For more information call toll-free (800) 894-4999.

**Ultimate Frisbee Tournament** - The Caltech Ultimate Machine is going to Pitzer on Sunday, April 5th. Call Andy at 585-0198 to sign-up.

**Women's International Friendship Group** will meet on Monday, April 6 at 415 S. Hill at 9:30 a.m. All women from foreign countries are warmly invited. Children will be supervised. For further information, call Gretl Horning at 355-9661 or Kay Corwin at 564-8088.

**Caltech Y Excomm Meeting** will be held in the Wes Hershey lounge of the Winnett Center on Monday at noon. The Y invites anyone who wish to cosponsor an event to attend on the first or third Monday of every month.

**Human Resources Workshop** - The subject will be "Dealing with Difficult People". The seminar will be held in Winnett Lounge on Tuesday, April 7, from 9 a.m. to noon. For reservations, call ext. 3204.

**The Caltech Environmental Task Force** will meet in Winnett clubroom #1 at noon on Wednesday, April 8. Come volunteer to help at the Caltech Earth Day Celebration on April 17. Bring your lunch. For further information, call Debbie Bradbury at x3630.

**The April Blood Drive** will be held in Winnett lounge from 12:15 to 5 p.m., April 7-8. For an appointment call Veronica x6374.

**Watson Lecture Series** - Joel Burdick, assistant professor of mechanical engineering at Caltech, give a lecture entitled "Robotic Machines That Crawl, Walk and Slither" in Beckman Auditorium at 8 p.m. on Wednesday at 8 p.m.

**Well Baby Clinic** - Children up to two years old of undergraduates, graduate students and research fellows will be examined and given all the necessary immunization at the Student Health Center, on the morning of April 9th. For appointments, call Mrs. Vogt at 794-7823 (residence). The clinic is sponsored by the Caltech Service League.

**Friday Prayer** - Prayers organized by Caltech Muslim Students are to be held in the Caltech Y lounge at 12:30 p.m. For further information contact Asim Mughal or Shameem Hashmi at 564-1701.

**Gay, Lesbian and Bisexual Discussion Group** - meets the 1st and 3rd Tuesdays of every month from 7:30 - 9:30 p.m. in the Health Center. This confidential meeting is open to all members of the Caltech community. The first hour is devoted to discussion of a specific topic, and the remaining hour is open for general conversation and socializing. Refreshments are served. For information please call 356-8331.

**The CIT-KNIT Group** meets at noon on Tuesdays in the Benioff Conference Room (Rm. 256 S. Mudd). Come and join us.

## CAREER DEVELOPMENT

**Seniors!** Keep an eye out for the Career Development Center's annual survey. It's very important that they hear from everyone about their plans after graduation. All information is confidential, so please fill it out and return it. Surveys will be mailed in mid-April (P.S. If you need help figuring out what those plans are, they can help.)

There are still companies coming on campus to conduct interviews. Stop by the CDC office to sign up and to look at our other job resources, including job listings, job database, and employer directories. The Career Development Center is open from 8-12 and 1-5. We're located in 08 Parson-Gates, x6361.

We just received information about a fellowship sponsored by the Department of Defense (DoD). The Defense Acquisition Scholarship Program is for students pursuing an MBA. The award is between \$13,000 and \$15,000, with an April 21 deadline. Stop by for more information.

**GE Corporate R&D** is seeking graduating seniors to apply for a Research Analyst/Associate position involving computer-based financial modeling.

**Columbia Business School** is offering the Chazen Fellowship for college seniors who plan a career in international business. An application can be obtained by calling (212) 854-5567.

**The Mexican Museum** is looking for Latino candidates for a paid summer internship. Application deadline is April 17.

We sometimes get requests for students to do translations and language tutoring. If you're interested in getting paid to do these, sign-up with Carol in the CDC. She will keep your name on file, and when a request comes in, she'll try to contact you. We have a specific request from XEROX in Pasadena for a brief Arabic translation. Stop by the CDC for more information.

## INTERNSHIPS

**Multi-Cultural Volunteer Programs and Summer Work Projects** - Peace work projects held in developing communities around the world involve student volunteers from the U.S. and throughout the former Soviet Union in tri-cultural humanitarian efforts. Volunteers meet in the host country to participate in an educational orientation and to work on the construction of basic housing, clinics and schools. Selection is competitive. The cost \$500-\$900 plus airfare. Contact Steve Darr or Erin Driver at (703)-552-2473.

**The National Gallery of Art** will offer three paid internships for 1992-1993 to qualified African-American, Asian-American, Hispanic-American, Native-American and other minority U.S. citizens. Interns will work on special project at the gallery from Sept. 14, 1992 through June 11, 1993. The stipend is \$14,000. To be eligible applicants must have completed at least an undergraduate degree by Sept. 1992. The application deadline is April 17th, 1992. For more information contact Amy McCampbell (202) 842-6182.

## SCHOLARSHIPS, FELLOWSHIPS &amp; COMPETITIONS

**2nd Annual Los Angeles Philharmonic Fellowships for Excellence in Diversity** - Fellowships are available to instrumentalists who are Southern California residents between the ages of 16 and 30 and who are interested in pursuing a symphonic career. Fellowships range from \$500 to \$2,000 based on talent and need. The application deadline is April 10. Information and applications may be obtained by contacting James Ruggirello at (213) 972-0703.

The Financial Aid Office has applications and/or information for the following scholarships. For a complete list of all scholarships check the bulletin board next to the bookstore or check the bulletin board in the Financial Aid Office. All qualified students are encouraged to apply. Our office is located at 515 S. Wilson, second floor.

**The Jewish Family and Children's Services (JCFs)** announces the availability of grants, scholarships and loans for Jewish individuals and their families. For more information contact the Financial Aid Office.

**Merit Awards for 1992-93** - Each year, the Scholarships and Financial Aid Committee awards a number of Merit Awards to the most academically talented of the Institute's Sophomores and Juniors, and in special circumstances, Freshmen. Merit Awards are based on outstanding scholastic achievement as demonstrated in formal classes and/or in independent research, and not on financial need. Last year, the Committee recommended 25 Merit Awards of full or three-quarters tuition and 14 honorable mention awards of \$5,500 each. The level of the awards this year will be determined by the caliber of the applicants. Applications are available in the Financial Aid Office at 515 S. Wilson. The deadline for submitting completed applications to the Financial Aid Office is 5:00 p.m. on May 1, 1992.

**The Ebell of Los Angeles** is offering undergraduate scholarships for the 1992-93 school year. The amount of the scholarship is \$3,000 per year paid in monthly checks, September through June. In order to apply, students must be U.S. citizens, LA County residents, have at least a 3.25 GPA, and be attending an approved college in Los Angeles County. LA county residents may be proven by in-school attendance. All applications and materials are due in the Financial Aid Office by 5:00 p.m. May 15, 1992.

**American Electroplaters and Surface Finishers Society (AESF)** is offering scholarships for the 1992-93 academic year. Financial need is not a factor. Applicants should be majoring in Chemistry or the Engineering Sciences. The application and all requested information and documentation must be postmarked by April 15, 1992.

Applications are available for the **Orville Redenbacher's Second Start Scholarship Program** for the 1992-'93 academic year. To be eligible a student must be 30 years or older at the time of the application, be enrolled or enrolling in a degree program, be either a full-time or part-time student and attend an accredited university. All applications must be postmarked by May 1, 1992.

**The Society of Women Engineers** announces its 1992-93 Freshman and Reentry Scholarship Programs. This year they are seeking applicants for seven scholarships totaling \$8,500. Applications including supportive materials, must be postmarked on or before May 15, 1992.

**The 1992 Society of Consumer Affairs Professionals in Business (SOCAP)** applications are now available. Completed applications must be received by May 15, 1992.

Two new scholarships are being offered by **Bolla Italian Wines and the National Italian American Foundation**. The scholarships, each in the amount of \$5,000, will focus on diverse areas of International Studies with an emphasis on Italian Business and Italian-American History. Applications can be of any nationality, and must be at least 21 years of age upon the awarding of the scholarship, and have a 3.0 GPA. The deadline for the application is May 31, 1992.

**Submissions for What Goes On**, must be submitted by 5:00 p.m., Tuesday. All submissions should be 75 words or less. They can be delivered to the box outside the Tech office, room 40 SAC, mailed to The California Tech, Caltech 40-58 SAC, Pasadena CA 91126, or to our E-mail address: editors@tech.caltech.edu.

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