

**New Pathways to Extinction:** Richard Turco speaks about the "nuclear winter" that would follow a nuclear war.

photo by Min Su Yun

## Programming is Taught; PCs Placed in Student Houses

by Ken Whang

In response to unmet student needs raised at this year's Faculty-Student Conference, Dean of Educational Computing Geoffrey Fox has set up new sections of the Ph 20 computing class and hired a part-time consultant for students.

In addition, the setup of a student committee and the installation of I.B.M. Personal Computers (PCs) has pushed forward computing in the undergraduate student houses.

The new Ph 20 sections differ from those taught first and second terms in that they offer explicit instruction on how to program. Three sections have been set up which teach the language C, and one which uses BASIC.

As they were originally taught beginning last fall, Caltech's introductory computing courses, Ph 20 and E 1, offered no explicit instruction. Instead, students were given physics and engineering problems of increasing complexity and asked to solve them using the computer. Many students complained that they could not solve the problems with that minimal level of guidance.

Fox says these courses were "tolerably successful," but were hampered by the lack of organization inevitable in a new course. Also, no books were available which taught computing by this approach.

The new sections begin with a tutorial, and the switch to the

type of problem solving that comprises the original version of the course. Fox considers this approach to be a good mix which may be more effective for beginning programmers.

A part-time consultant, Dan Rolands, is also available to assist students with difficult computer problems. A technical editor of *PC Age* and author of a book on assembler for the PC, Rolands knows the I.B.M. PC well and is there to help students with questions they may have about programming and the PC.

In the hope that he will not "become superfluous," Rolands would like to encourage all students, in and out of the computing classes, to see him about computing problems. His office on the fourth of Bridge is open Thursday afternoons from 1 to 4.

Also new on the Caltech computing scene are I.B.M. PCs in the student houses. Fox sees their installation as a way to make computing facilities for problem solving and word processing more accessible to students.

"I want to do what the students want," says Fox. Accordingly, he has set up with the assistance of Chris Brennan and the Interhouse Committee (IHC), a committee of students, one or two from each house, to decide how computers should be introduced to the undergraduate houses.

If the current placement of computers in each of the

houses proves to be unpopular, Fox may set up a pool of portable computers for students to check out as an alternative means for students to have access to computers.

## Top Schools Oppose Defense Dept. Proposal

Caltech, M.I.T., and Stanford Protest Possible Restriction on Publication

by Ken Whang

The presidents of Caltech, M.I.T., and Stanford have stated in a joint letter that their universities will not conduct unclassified but "sensitive" military research if their publication rights are subject to restrictions which have been proposed.

The Defense Department would like, in unclassified research that is considered "sensitive," to have the final word on specifically which findings can be published. Whether or not a particular project is "sensitive" would be determined by the Pentagon.

Scientists under such contracts would be required to submit drafts of their papers for review 90 days before publication. Military reviewers could then veto the publication of certain types of findings and comment in regard to the propriety of other findings.

Presidents Marvin Goldberger of Caltech, Paul Grey of M.I.T., and Donald Kennedy of Stanford sent a letter late last month to White House science advisor George Keyworth and Under Secretary of Defense for research and engineering Richard DeLauer.

According to Goldberger, as quoted by an article in the *New York Times* published Tuesday, "The essence of our letter was that the types of restrictions being considered could well make it impossible for us to accept certain contracts."

This was consistent with comments that Goldberger made in an interview by the *California Tech* earlier this year. "We get a substantial amount of money from the Department of Defense... without any strings attached... and nobody seems to have the slightest qualms about taking the money," but "we insist that we have the right to publish anything that we deal with."

The Pentagon has reportedly suggested to the universities that they may have to accept the closed research conditions or forego the research funding.

Goldberger noted in the *New York Times* article that "it's a relatively small amount of money so it won't necessarily have a big direct impact on the universities. But it's the nose of the camel that we are worried about."

## 5 Interested In Arroyo Center

by Chris Meisl

Five organizations have expressed a "considerable degree of interest" in taking over sponsorship of the Arroyo Center, currently being run by the Jet Propulsion Laboratory, according to President Marvin Goldberger.

The organizations include two academic institutions, two federally funded or contracted "think tanks" and one private corporation.

Caltech has spoken with army officials "closely associated with the evolution of the center" as well as the Undersecretary of the Army,

James Ambrose, Goldberger added, and the Army is "very anxious that a new sponsor be found rapidly" for stability of the center.

The Army is committed to the center and wish to maintain its location in the greater Pasadena area in order to keep the current staff as much as possible.

The Army is also considering a separate plan of making the Arroyo Center a free-standing organization with its own board of directors.

Meetings were held this week in Washington D.C. for the Army to state its "preference of association."

This will determine which type of organization, among academic, federal, private and free, the Army would choose for sponsorship.

If a sponsor can be found within the next few weeks, the transition from JPL to the new organization may be completed within three to six months, according to Goldberger.

A committee has been set up at JPL to effect the transition once the sponsor is selected.

The Arroyo Center is presently located at the JPL Foothill facility and is directed by Dr. Richard Montgomery. It is staffed by 23 professionals and 3 office personnel.

### Notes

#### Dues to Increase

The dues increase measure passed. ASCIT dues will be raised from \$15 per term to \$20 per term beginning this fall.

#### Secretarial Nominations

Nominations will open Monday for the offices of ASCIT secretary and BOC secretary. The signup sheet will be on the door of the Master's Office. The current secretaries will not be able to complete their terms of office.

## The Inside World

**Blacker:** This is a test of the Inside World section system.

This is only a test.

1. How many buckets in a branch of oatmeal?
2. Why?
3. Why not?

This has been a test of the Inside World section system. We now return to our regularly scheduled article beep beep beep beep beep beep beep—wling trip was a monumentously proportioned titanic struggle of the forces of X and V; heavy bloeghs were exchanged. The little girl is still at large. —Him

**Dabney:** No entry.

**Fleming:** Last weekend, Fleming Country Club was held at Dodger Stadium, and to Sean Eddy's sickening pleasure, the Pirates of Pittsburg came away with a victory.

Tomorrow is the Page-Fleming Road Rallye, and Sunday is the Page-Fleming Outdoor Olympiad. See you there!

—Al Fansome

**Lloyd:** Farrell's was a blast ("If you're happy and you know it, shave your head..."). Disneyland was nice, too.

Party this Saturday with the Source in Winnett. *Everyone's invited!* Come and bring a friend.

Now back to you in New York, Walter...

P.S. I've still got a birthday cake left if anybody wants some. —Rod

**Page:** No entry.

**Ricketts:** Well, 3rd term room pick has come and gone and the house has settled into a new configuration. Happenings last week included Sunday's hard fought discobolus discobolus challenge against Ruddock in volleyball with Ricketts jumping out to an early game lead and leading the secong game prior to coming into our traditional form. This weekend things will really start moving with a house trip to laserium Dark Side of the Mood tonight. On Saturday night there will be an interhouse party with Blacker with music from the Young I-publicans and burgers catered by the coffeehouse. On Sunday there will be yet another discobolus challenge with Ruddock, this time in track, if at first you don't succeed... —Bob Bolender

**Ruddock:** Okay, last week I was very subtly reminded by some of the editors that I had forgotten to write my Inside World column. So now I will try and get you all up to date on what's going on in Ruddock House.

Let me think... way back to two weeks ago. What happened? Oh yeah, Farrell's. We had a big outing to Farrell's Ice Cream Parlor where everybody pigged out on obscene amounts of ice cream.

Then last week we had yet another video day, though this didn't create ass much of an uproar as last time. Anyway, we watched a bunch of neat movies, including "The Shining" and "The Blues Brothers"—and who could forget that classic movie "Rollerball?" See Vanya, one of your teams won it all.

This week the social event will be a trip to the Laserium to freak to some Pink Floyd. I'd be going for sure, except I'm attending the *other* Ruddock party—the one that goes under the code name "Model U.N."

That's right—this weekend we fight for truth, justice, and the American way as we go to Sacramento to show our prowess in world affairs. Those Rudds going are Donkey, Easy, Sheldon, The Boner, Mikey, Gleen, Moldy, Yarmo, Rich, Bryan, Greg, Rajeev (beware his cunitis), and yours truly. (My apologies for anyone I've forgotten).

Let's see... what else? Oh yeah, Ruddock Sports.

I forgot to congratulate the Ruddock team on a superb 6-0 finish in volleyball. Also, last week we beat Ricketts in volleyball to hold on to the Discobolus trophy. And the interhouse basketball team is 1-2 so far, but we're having *fun!*

In GSC, those smelly, moldy Processed Cheese Foods have posted a 1-2 start in B league. Just one league down are those tan jocks (except for Anne) of the "Which Way to the Beach?" team. They're just easing back to an 0-3 record.

Now to alley challenges. In a hard-fought raging battle Wednesday, Alley 1 bested Alley 4 in the time-honored sport of "Tofu Drop on Charles Hershey." And Alley 5 and Alley 2 are going to square off in the high velocity sport of "Millikan Elevator Race."

I would also like to clear one thing up: After refusing to ever play the sport, I have given up my title as "The Bridge Frosh"—Mr. Michael Vanya now owns that title outright. Slime.

Umm... pay your bar bills so that we can have a beer fridge soon.

That's about it, I guess. Though there are other interesting things going on. Psi.

Omega. Anyway...

Farewell from Sacramento. —Chris Mihos

## Ambassador Season Announced

by Chris Meisl

Wayne Shilkret, Director of Performing Arts for the Ambassador International Cultural Foundation, has announced details of the twenty subscription series to be presented at the Ambassador Auditorium in Pasadena for the 1984-1985 season.

More than one hundred

world-class artists and ensembles are scheduled for this tenth annual season at Ambassador.

Of primary interest in a season studded with major musical events are Mstislav Rostropovich in his first cello recital here in seven years, and the London Philharmonic Orchestra. —continued on page 7

### The Caltech Y Fly-by

**Friday... April 13**

**Noon concert**—on the quad—Random Walk Reggae and R&B.

"Nuclear Free Pacific?" Talk and slide show by Giff Johnson and Darlene Ketu. Winnett Lounge—2:00. Cosponsored by the World Affairs Forum. Refreshments served.

**Saturday... April 14**

**Bike up Mt. Wilson**—meet at Winnett—7:30 am. bring your lunch and a pair of long pants!

**Wednesday... April 18**

**Noon Update—"Magnetic Fields on the Sun"** Dr. Harold Zirin, Professor of Astrophysics Director of the Big Bear solar observatory. Winnett Clubroom 1. Bring a lunch and a friend.

**Thursday... April 19**

**Jack Smith**, Los Angeles Times columnist will be speaking at baxter lecture hall, 7:30 p.m. Free, open to all.

**Friday... April 20**

**Noon concert**—a total surprise to all but our own Suzy Blue!!

**Monday... April 23**

**Philharmonic sign-ups** for Friday night, April 27 the last of the season!!

For more information on any program call the Caltech Y office at 356-6163.

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### THE CALIFORNIA TECH

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Friday, April 13, 1984

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### Cinemattech

Billy Wilder's  
*Sunset Boulevard* 7:30

Jean Luc Godard's  
*Contempt* 9:40

Saturday Evening in Baxter Lecture Hall  
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# Villains Pursue Vincent Price

Office of Public Events

Vincent Price stars in his one-man show, "The Villains Still Pursue Me," a history of villainy in literature and entertainment, Wednesday, April 18 at 8 pm in Beckman Auditorium.

Price has often portrayed villainous characters on screen. He has appeared in over one hundred films and countless theatrical performances during his career. Among his better known works are *The House of Seven Gables*, *House of Wax*, *The Ten Commandments*, and *The Raven*.

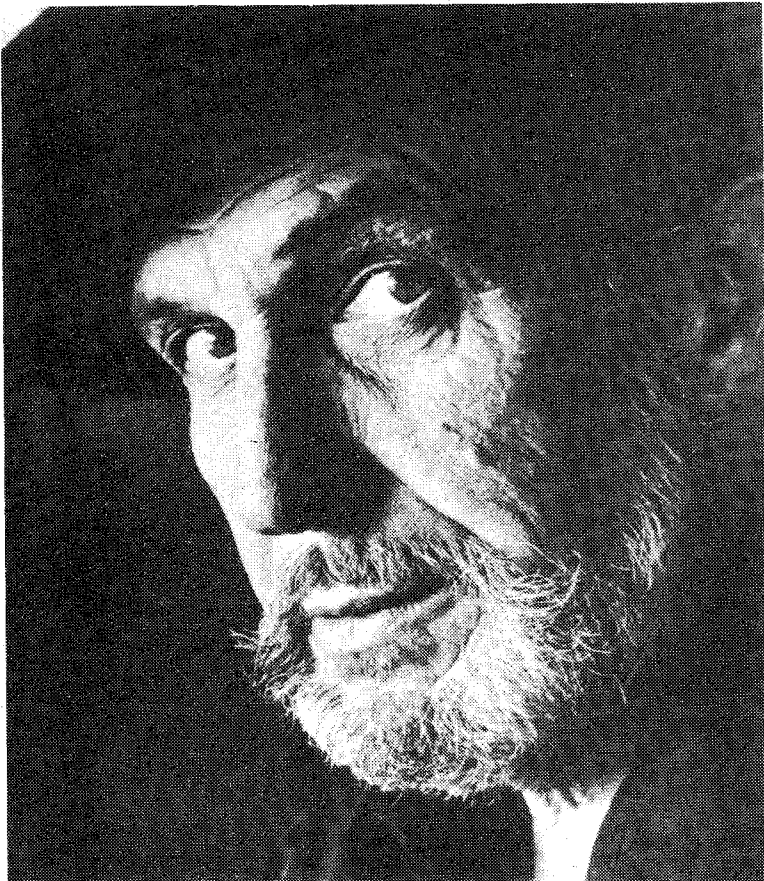
A native of St. Louis, Price received his undergraduate degree in art history from Yale. He then studied at the University of London and the Courtald

Institute. It was in England that he first appeared on stage.

In addition to his theatrical career, Price is active on the lecture circuit, discussing such topics as art and theater. He is also a prominent figure of the La Jolla Playhouse.

Ticket prices for Caltech students with I.D. are \$7.00-6.50-6.00. Rush tickets at \$4.00 each will go on sale one hour prior to performance time at the Box Office (subject to availability).

Caltech faculty and staff tickets are priced at \$13.00-12.00-11.00. They are available at the Caltech Ticket Office, located just north of the Beckman Auditorium parking lot. For information, call campus extension 4652.



Vincent Price

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## Singers Present Full-Length Concert

In their first full length concert, the Caltech Chamber Singers will present an evening of vocal chamber music at 8 p.m. Sunday, April 15, in Dabney Lounge.

The thirteen member ensemble, directed by Dr. Donald Caldwell, will present a concert of great variety, ranging from a double choir motet to madrigals and chanson to duets and trios, from Purcell to Gilbert and Sullivan.

Highlights include Heinrich Schütz's setting of Psalm 100 for double choir, lively chanson by Passereau and Jane-

quin, Rossini's buffa duet for two cats(!), the Judge's song from *Trial by Jury* and the finale from *The Gondoliers*.

The ensemble has appeared in concert for numerous gatherings on and off campus. Often appearing in Renaissance costume, the Chamber Singers have entertained at the Athenaeum Renaissance Banquet and were the first Caltech ensemble ever selected to appear at the Ath's Christmas Evening.

The hour-long concert is presented without charge and all are invited to attend this unique and lively event.

## The Backwoods to Perform at Dabney Hall

by Brian Toby

The Caltech Folk Music Society will host a concert with the Backwoods Jazz Quartet tonight (Friday) starting at 8 p.m. in the Dabney Hall Lounge. Tickets are priced at \$5 in advance and \$6 at the door and are available from the Caltech Ticket Office (X4652). Caltech students may purchase a pair of tickets at \$3 each, thanks to a subsidy from the GSC.

The Backwoods Jazz Quartet has been entertaining West Coast audiences for years with their unusual fusion of traditional and contemporary folk styles with swing jazz. In fact, their popularity here has led them to tour the British Isles and Western Europe. They may well be the only band that has performed both in Folsom Prison and for the Queen of England.

The members of the

Backwoods Jazz Quartet are: Paul Emery, who performs on guitar and mandolin; Tom Schmidt, who can be found in concert behind a clarinet, sax or duck call (that's no typo, duck call!); Ray Mann accompanies on both the electric bass and the drums, but unlike all his competition - Ray plays both at the same time! Anni McCann is the group's main vocalist and also plays guitar, mandolin and piano. Together they are known for their four-part harmonies and wide range of musical sources - from Duke Ellington to Richard Thompson, plus songs from Ireland to Australia.

The only other remaining concert on the CFMS schedule for this term will be on May 4 and will feature Joanna Cazden plus another guest (to be announced). Tickets for that concert are priced the same as this Friday's concert and are

also currently on sale at the Caltech Ticket Office. Also coming up are Hootejamanianies on April 21 and June 2 in Winnett. These are evenings of do-it-yourself music, which are free, but please RSVP with Judy Ruggles at (818) 289-3149.



The Backwoods Jazz Quartet

## The Outside World

**The U.S. Senate voted to condemn the mining of Nicaraguan ports on Tuesday.** In an angry reaction to the White House approved, CIA directed action, 42 Senate Republicans led by Majority Leader Howard Baker joined the Democrats in an overwhelming 84-12 vote, only five days after approving a \$21 million covert aid bill for the Nicaraguan contras. The mining has been carried out in several Nicaraguan ports since February and has damaged at least six merchant ships, including a Russian oil tanker and a Japanese cargo ship. The outcry against the American action is expected to strengthen the position of House Democrats who are fighting the covert aid bill. Intelligence officials warned that if Congress failed to approve the \$21 million request, the CIA would quit the entire operation in Nicaragua and blame Congress for any consequences of abandoning the Nicaraguan rebels. The Reagan Administration is considering suspending further mining of Nicaraguan ports to prevent the Congress from cutting off the covert aid funds.

**Walter Mondale defeated rival Gary Hart in Tuesday's primary in Pennsylvania,** continuing his rout of the younger Gary Hart in the major industrial states. Combined with his recent victories in New York and Illinois, Mondale has widened his lead over Hart and increased his delegate count to 1047, compared to Hart's 571. Mondale again benefited from the composition of Philadelphia's voters—large numbers of union members, ethnic minorities, the old and poor. Although Hart won only a third of the total vote, he beat Mondale in the suburbs and among professionals. The Colorado Senator expects his fortunes to improve as the campaign moves to the southern and western states. Said Hart, "We're headed into our territory, folks." Jesse Jackson continued to attract the overwhelming support of blacks, and although he received less than a fifth of the votes statewide, he placed ahead of both of his rivals in Philadelphia, despite the endorsement of Mondale by Wilson Goode, Philadelphia's black mayor.

**The crew of the space shuttle saved the Solar Max satellite,** and therefore the mission, by grabbing the satellite using the robot arm and performing a seven hour repair operation in the cargo bay. An earlier attempt to retrieve the satellite failed when spacewalking astronaut George Nelson, propelled by a jet backpack, could not latch onto the satellite when a locking mechanism apparently stiffened in the cold of space. Mission Control then decided to try to retrieve it by using the robot arm instead of a spacewalking astronaut. Astronaut Terry Hart, guiding the 50-foot-long mechanical arm using his jet-powered backpack, grabbed the slowly rotating 5,000-pound satellite on his first try and hauled it into the cargo bay where astronauts George Nelson and James von Haften repaired it the next day.

**"Terms of Endearment" won the Oscar for Best Picture** in the 56th Academy Awards ceremony at the Music Center. The film received a total of five Oscars: best actress, Shirley MacLaine, best supporting actor, Jack Nicholson, best film, and two for James L. Brooks for best direction and screenplay. Robert Duvall won in the best actor category for his role in "Tender Mercies" and Linda Hunt won the best supporting actress category for her role in "The Year of Living Dangerously." The most successful movie last year, "The Return of the Jedi," won only one honorary award for special effects.

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sports

## Three Houses Are Tied in IH Basketball

by Ath Man at Large

After four of its 11 days, the Interhouse Basketball season is shaping up as predicted. Page, Fleming, and Blacker are all 2-0, tying them for first place.

Page got their season off to a good start, defeating Ruddock 40-28 on the first day. Fred Ferrante and Bob Golden led Page with 10 points each, while Chris Cotterell's 11 points for Ruddock were not enough to overcome Jim Helgren's off-day shooting for Ruddock. Fleming defeated Lloyd 52-43, as Chris Kyriakakis led Lloyd with 22 and Ed Zanelli paced Fleming with 20.

The Rudds split their next

two games, routing Dabney 51-29 (with Jeff Lester scoring 24 of the Darbs' points), as Helgren got back on track with 22, before losing a tough game to Fleming, 49-35. Helgren had 15 in that one, but balanced scoring from Stewart Peebles (13), Zanelli (11), and Karl Clauser (10) overcame The Incredible Helg.

The Moles have romped in both of their games, destroying Ricketts 61-24 and defeating Lloyd (Se Jung Shin scored 38 in this one) 71-53. The Lloydies, still without Brett Bush, won their first game on Wednesday, defeating Ricketts 50-41. Chris Kyriakakis netted 33 points for Lloyd.

## Raiders of the Lost Waterpolo Ball

by Skip's Sister

Flashback... March 24.

It was unseasonably hot and customarily humid in the Columbian jungle. Commander Clinton Dodd and his army were beginning to get weary. They had to fight to get this far, though their skill and training made the battles easy. With the help of the Montana Connection, Dodd's troops knocked off the Badlands natives 17-6 and escaped unscathed from the neo-nazi Poets of Whittier 12-6. They had the trophy in front of them. They had only to reach out and...

Water crashed in from all directions, sending Dodd's corps floundering in confusion. It was an Amazon attack. These proficient mercenaries were trained at Pomona, and they wanted the trophy. "Set up! Lay out! Tight defense! No foul!! Foul!!! Ahhhh..." Dodd's voice broke off. His women had been muscled out, beaten, and the trophy that had been in their grasp was gone, 8-7.

But there were other idols. And one was more mystical and precious than all the rest. The Golden Mikasa. Dodd's team was going to go after it.

They did what they could to train for their mission. Government support was nil. The Waterpolo Extermination Bureau, W.E.B., had made any shooting practice impossible by forbidding the use of the targets, claiming their expert had determined that rubber traveling at velocities comparable to a spooked turtle could potentially chip ceramic.

Undaunted, they set off, Dodd knew where the Mikasa was, and when his team reached the Egyptian oasis, they found the Amazons there waiting. It was obvious that there would be another battle. April 6. Dodd relied on his

oldtimers, Blamick, Morris, and Hildewoman for leadership, but they could not repel the Amazons' initial thrust. He was forced to activate the lifesaver line—Zimmerman, Penny, Lark, and Cathy T—just to stay even. And he employed his nuisance specialist, Rocket Rosik, to cause havoc with the enemies' attack. This strategy worked well, but the early casualties were too severe to overcome, and once again the Pomona mercenaries had stolen an idol from Dodd's crew. The Mikasa was lost 9-6.

This isn't the end of the story, though. It was discovered that the Amazons were working for the neo-nazi Poets, and commander Dodd decided to go after them to regain the idol.

April 7. Dodd took his company to the Whittier hills where the Poets were headquartered. To stop them, one had to stop Big Ginger. In a surprise attack, he came full force with all his women, even with some men to bake cookies and keep the ladies. The battle was quick and hot, and Dodd's lassies were moving in for the kill. At the climactic moment, he called out the underwater play. Executing it to perfection, Chris "No Breath" Morris swam to the bottom of the pool, pulled the plug, and watched all the Poets, neo-nazi coaches, and referees go down the drain. The victory belonged to the Dodd Squad 12-6, and at long last, so did the Golden Mikasa.

Or so they thought.

The next day the W.E.B. confiscated Dodd's Mikasa. "It is to be studied by top men," said the W.E.B. chief.

And so it sits, locked away in a deep, dark corner surrounded by other equally studied idols discovered by other teams. What a waste.

## Weekly Sports Calendar

Fri.	4-13	1:00 pm	Golf	Pomona-Pitzer	Marshall Canyon
Sat.	4-14	All Day	Track	Riverside Invitational	U.C. Riverside
Sat.	4-14	11:00 am	Women's Tennis	Cal Lutheran	Caltech
Sat.	4-14	12 noon	Baseball (2)	Occidental	Caltech
Sat.	4-14	2:00 pm	Men's Tennis	La Verne	La Verne
Tue.	4-17	3:00 pm	Baseball	Occidental	Occidental
Tue.	4-17	3:00 pm	Men's Tennis	Pt. Loma	Caltech
Sat.	4-21	11:00 am	Track	UCSD & Westmont	Caltech
Sat.	4-21	11:00 am	Women's Tennis	JPL	Caltech
Sat.	4-21	12 noon	Baseball	Claremont-Mudd	Clare-Mudd
Sat.	4-21	1:30 pm	Men's Tennis	Faculty	Caltech

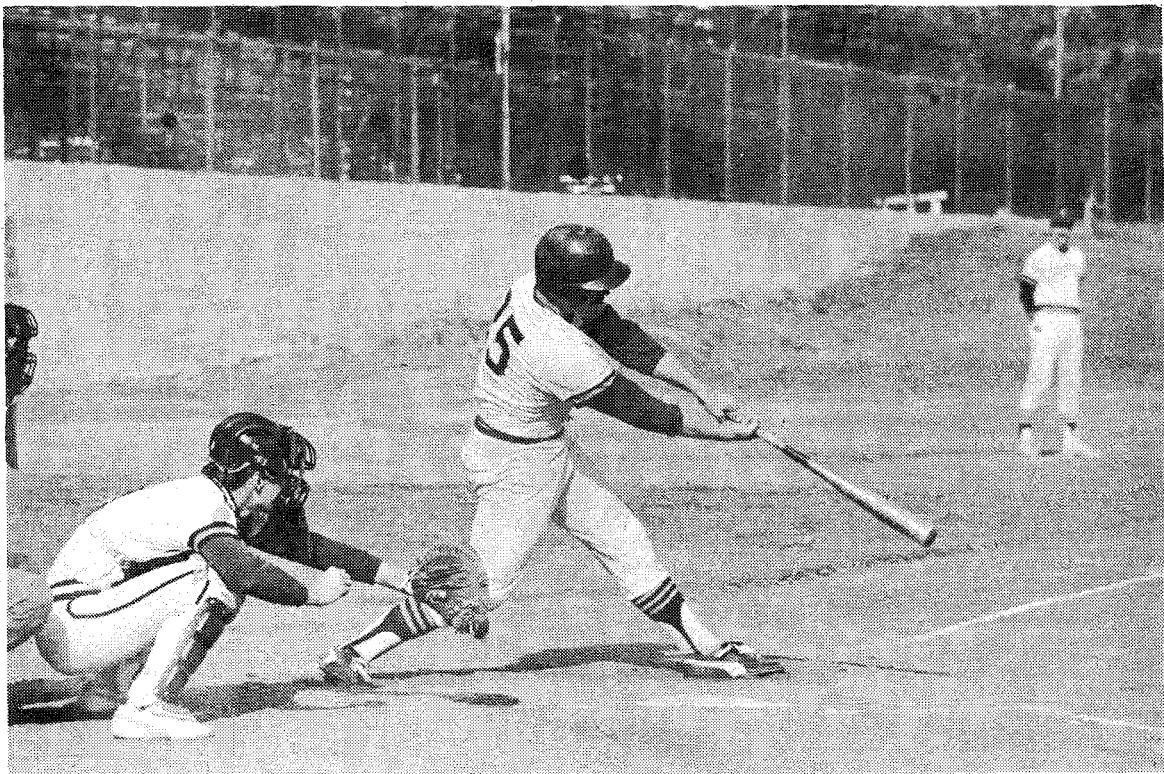


Photo by Min Su Yun

**HOMERUN** - In a losing effort against Pomona-Pitzer on Tuesday, Jim Hamrick hit a homerun over center field in the eighth inning. Being the 10th of the season, this homerun is marked as a school record for the most homeruns by the baseball team in a single season. With nine more games to in this season, more records are expected to be broken. The next game is tomorrow at noon at the Caltech diamond.

## Batsman Struck

### Bad Light Ends Caltech Cricket Match

by Brian Warr

An abandonment due to bad light cheated Caltech of a back-from-the-dead victory at San Dimas. Needing 80 to win, San Dimas was struggling on 47-6 when a sharp rising delivery from Ram struck the opening batsman on his cheekbone, forcing him to retire. It was then agreed after somewhat acrimonious discussion to stop the match.

The light was certainly bad, but not much worse than that faced by Caltech earlier.

Put in on a truly atrocious wicket, Caltech had started breezily through the attacking strokes of opener Nadeem (12). He combatted the uneven bounce by hitting powerfully off the back-foot. But his dismissal led to a disastrous collapse from 19-1 to 36-9, as successive batsmen tried and failed to hit themselves out of trouble.

The final pair of Rick and Rajeer then showed what sheer grit and determination can do. For nine overs they patiently pushed singles and two's into the outfield and accumulated an amazing 43 for the last wicket. Top score Rick (18) and Rajeer (17 not out) had more than doubled the total!

Strike bowlers Ram and Rakesh were now in great mood to win the match for Caltech. The breakthrough came in a superb spell of eight overs which yielded four wickets for just three runs. Ram (13-4-21-4) was wonderfully accurate, ably supported by Rakesh (12-5-22-2), and indeed by the enthusiastic out-fielding. Wicket-keeper Santos played particularly well.

Great pity then, that Ram was robbed of his chance to bowl out the tail and lead his team to the spoils.



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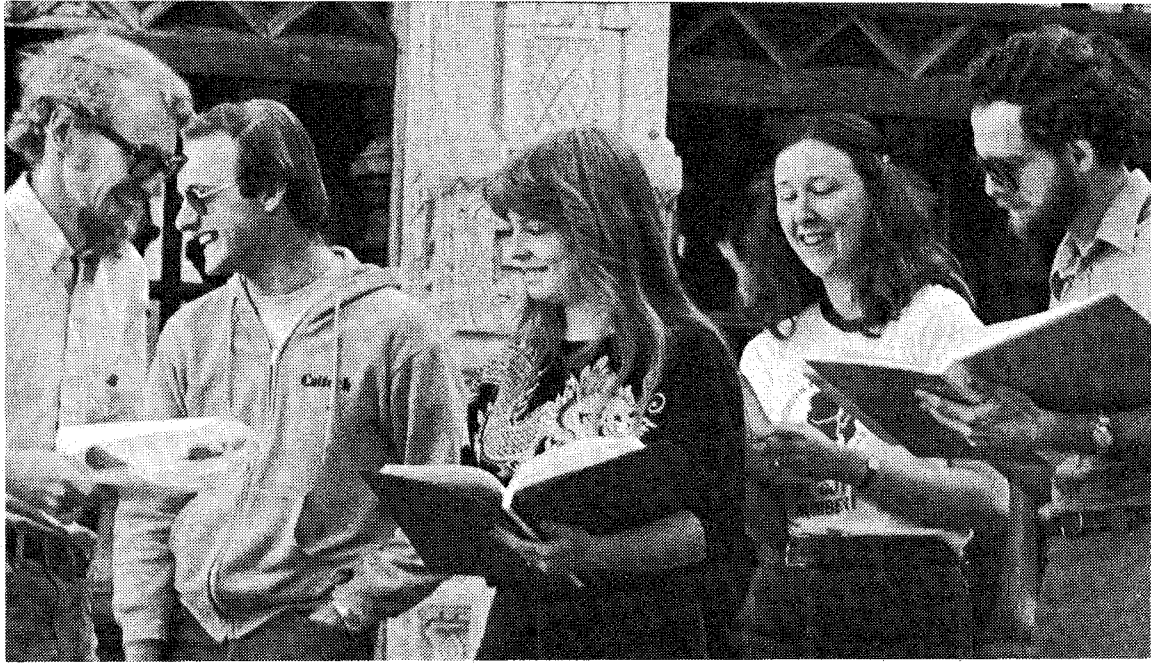
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Rehearsal for *Much Ado About Nothing* includes (left to right) George Williams, Jeff Pugh, Andy Bland, Alice Cronin-Golumb, and Bruce McLaughlin.

## Much Ado is Something

Not since the reign of James I of England has Shakespeare's *Much Ado About Nothing* been performed with such realism. On the afternoon of May 5, in the garden between Parsons/Gates and Crellin at Caltech, the festal play will celebrate the union of Margaret Emde and Dennis Malone, who will be married in a ceremony at the end of the performance, making the double wedding of Beatrice, Benedick, Claudio and Hero into a triple wedding, according to a precedent set in 1613 by King James' daughter, the Princess Elizabeth. TACIT hopes that the joyous, festival

air of *Much Ado* will give much pleasure to the couple on this happy occasion.

*Much Ado About Nothing* tells of the parallel courtship of the two pairs of lovers. The repartee between the spirited, sharp-tongued Beatrice and Benedick is among Shakespeare's wittiest dialogues; and the inept Dogberry, who finally unravels the villainous plot of Don John against Hero and Claudio, is a masterpiece of comic invention.

Shirley Marneus, director, seeks for realism in all facets of the TACIT production. Costumes, designed by Lisa Roth, will be in the elaborate Italian Renaissance style. Anita Nardine, a Julliard graduate and long-time member of the Caltech Women's Glee Club, is researching period music, while Pat Houseworth and Rosana Gatti, CIT staff members, are teaching the cast authentic Elizabethan dances. Even the garden will be dressed as a formal garden of the Italian Renaissance. (A curious discovery has come out of these efforts: the pattern of the Pavanne, a court dance, proves to coincide exactly with the rhythm of the dialogue of the masked ball in Act II, scene 1. Apparently the scene played to a Pavanne in Shakespeare's day.)

The object in striving for such authenticity is to bring Shakespeare closer to the audiences. The audience will see and hear Shakespeare's world... and indeed, exist in it, for the garden will be part of the set. In the effort to achieve clarity, Marneus has emended the text where it has become garbled in the transmission, and cut references which would be so obscure to a modern audience as to require explanation. She hopes for a "footnoteless" production.

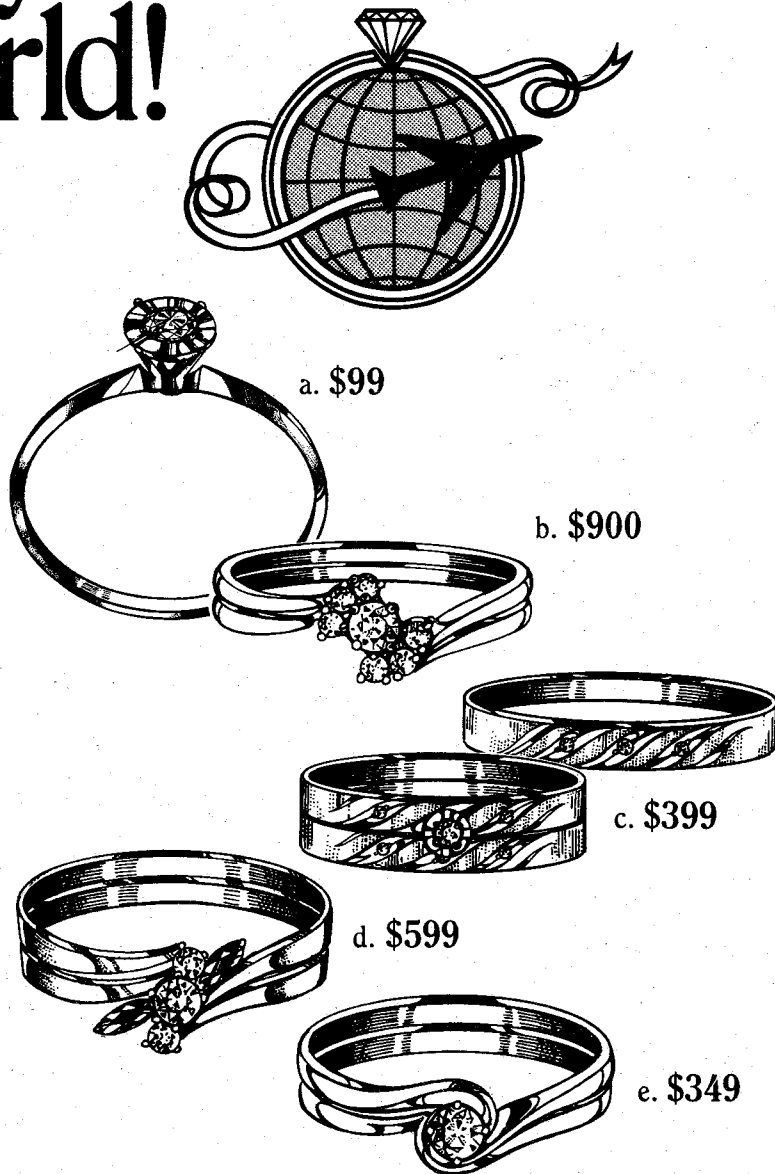
Construction work on the show is underway, and there is always more room for helping hands. TACIT productions are the joint effort of the entire Caltech community; the cast includes the undergrads Dean Elzinga and Andy Bland as Claudio and Hero. Grad students Alice Cronin-Golomb and Jeff Pugh as Beatrice and Friar Francis, alum Peter Jones as Benedick, JPL staffers George Williams and Bruce McLaughlin as Dogberry and Leonato and CIT staffer Phyllis Weiss as Antonia. If you are interested in participating in this communal effort as seamster or seamstress, usher, carpenter or Renaissance musician, call the TACIT office at 356-6259.

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**Ambassador**

from page 2  
 Orchestra in its West Coast debut conducted by Klaus Tennstedt. Also debuting will be the Philadelphia Orchestra under its new music director Riccardo Muti, and the Berliner Kammermusik, twenty-three first desk members of the Berlin Philharmonic. Other firsts include the concert-hall recital of the sensational Yugoslav pianist Ivo Pogorelich and the Ambassador appearances of sopranos Margaret Price and Pilar Lorengar. The season also includes the return of flutist Jean-Pierre Rampal, guitarist Andres Segovia, and sopranos Leonor Price, Monserrat Caballé, Janet Baker, and Jessye Nor-

man. For chamber music lovers, this season returns the Beaux Arts and Suk trios, as well as the Guarneri and Amadeus String Quartets. On the not-quite-classical side are the Canadian Brass Ensemble, the Vienna Choir Boys, pan-flutist Gheorghe Zamfir, and ... Count Basie! The twenty subscription series at Ambassador include to new series for International Chamber Orchestras and Keyboard Pops. All performances at the Ambassador Auditorium are presented by the Ambassador Foundation and sponsored by the Ambassador College at 300 West Green Street in Pasadena.

**A Generation Ago —**

From the October 4, 1962 issue of the Tech.

**Initiation Dominates Campus**

by Mark Gingold

In case anyone hasn't noticed, this has been initiation week. In the true Tech tradition, mayhem rules the campus. Once again the trajectory of a colored, elastic spheroid is computed with Tech precision. Once again the Health Center issues poignant pleas for sanity. As usual a mass movement has arisen on campus for the abolishment of initiation. Mass meetings are

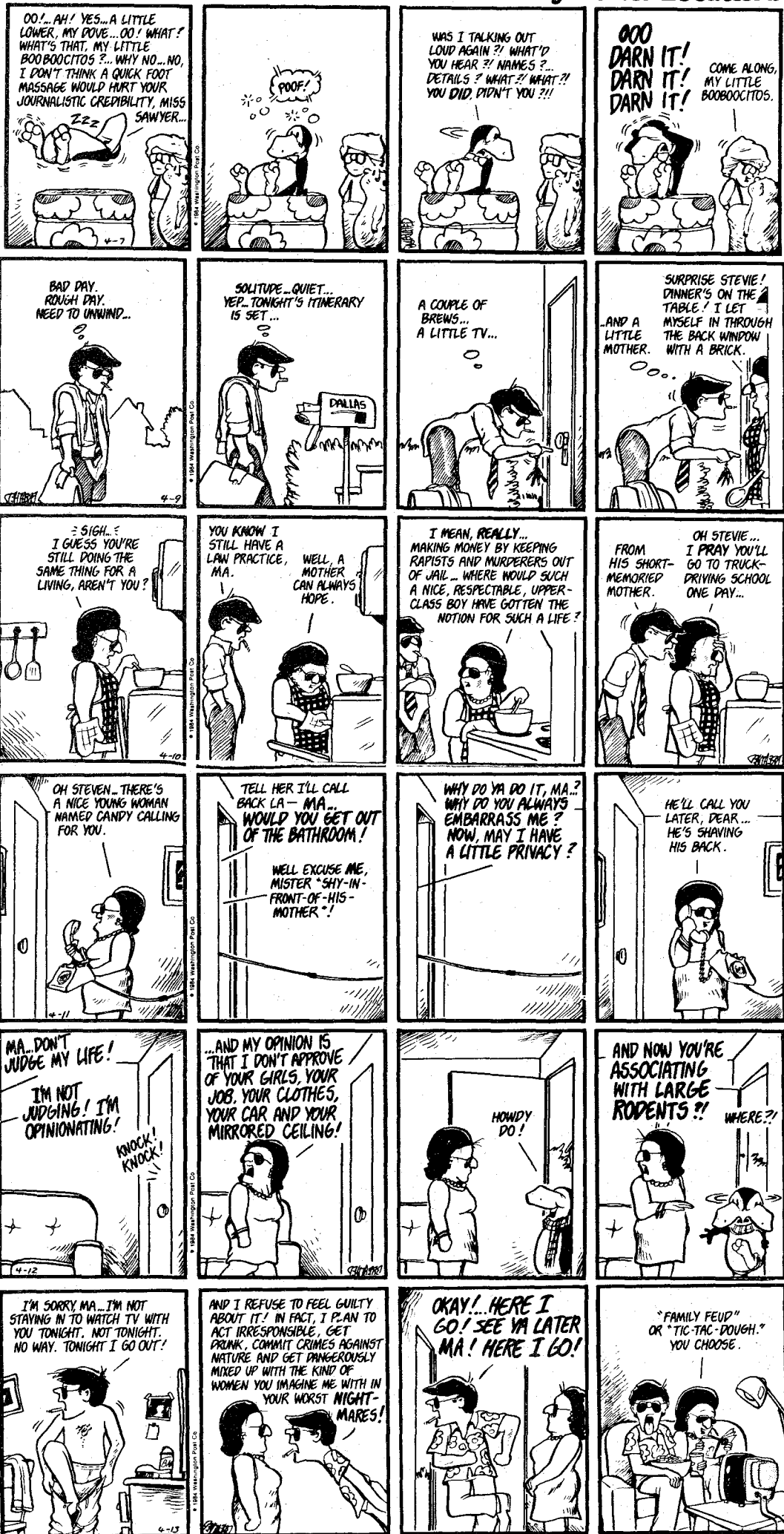
held, although, of course, the frosh are careful that no one overhears them. However, it must not be supposed that the only purpose of initiation is the gratification of upperclass sadism. In fact initiation has helped to push back the frontiers of man's knowledge. Was it not a Rud-dock frosh that first measured the area of P.C.C.'s library in baby bottles squared? Did not a Lloyd frosh first attempt to compile accurate statistics on the measurements of Throop secretaries? Did not Ricketts' frosh demonstrate conclusively that the proper place for Blacker is in Blacker showers? Have not the Fleming frosh proved, again and again, that there exists nothing lower than a Fleming frosh? Although Tech initiation does consist in some measure

and general hazing, there is also a serious side to it. Much serious thought and a great deal of time is devoted by the of wild stunts, water fights, his House. Through the U.C.C.'s and the other upperclassmen, information is filtered to them concerning each frosh. Questions such as "Just how much hazing will this frosh take?" or "How will he react to this stunt?" are asked and weighed. Each event in initiation ideally should have a serious purpose behind it. The water fights, besides being fun, really help to build an esprit de'corp for their class and their House. With upperclass pressure, the frosh quickly learn the names of upperclassmen, altes, U.C.C.'s, etc. (well, some times, at least). Some houses even generously offer frosh slave labor work on worthy projects such as Pasadena Boy's Club.

Therefore, at Caltech, attempts are made to try to make initiation both fun and, at least partly, useful. Mistakes are made, sometimes the frosh get overviolent in water fights, sometimes the pledge-masters overestimate the amount a given frosh will take, but overall initiation at Caltech serves the primary function of integrating the frosh into the sometimes dead serious, sometimes zany campus.

**BLOOM COUNTY**

by Berke Breathed



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## announcements

### Do You Know Food?

You can help update the *little t* restaurant section. If you have been to any local restaurants that weren't reviewed in last year's *little t* - or wish to update a review that did appear - you can win a free dinner.

The Master's Office is offering five prizes of \$20 towards dinner for two at an as yet unreviewed restaurant. To qualify for one of the prizes, simply send me a short review (Karla Peterson, *little t*, 107-51) containing the following information:

- restaurant name and address (with directions if necessary) and whether it is within walking distance
- approximate price range
- comments on atmosphere, service, and the quality of the food
- number of cute waiters or waitresses
- an overall rating between one and four stars

Each week, one review will be drawn at random from all of those received, and the reviewer will be given \$20 toward eating at and reviewing a new restaurant (payable when the review is received). Only the first three reviews of any one restaurant will be put into the drawing and only significant changes to previous reviews will be accepted. The prizes are open to undergrads only, but submissions are welcome from everyone who has access to the *little t*.

Enter as often as you wish, and watch the *Tech* for the names of the winners.

### Nuclear-Free Pacific

Native Marshall Islander and health expert Darlene Keju and journalist Giff Johnson will present a slide show/talk entitled "Nuclear-Free Pacific?" today at 2 p.m. in the Winnett Lounge. The subject deals with nuclear testing in Pacific islands and the native reaction to it. The event is sponsored by the Caltech Y and the World Affairs Forum. Refreshments will be served.

### Health Expo At Plaza

The Plaza Pasadena is a site for Health Fair Expo, a massive health screening project for residents of Pasadena, today and tomorrow, April 13 and 14, from 10:00 am to 9:00 pm today and 6:00 pm tomorrow.

Sponsored by the American Red Cross and others, the free screening will be offered to residents from 3 years of age or older. The health tests and services include health history, height and weight, blood pressure, anemia, vision acuity, and health awareness. Optional blood tests will be provided at each site for a nominal charge of \$10. This test includes testing for diabetes, cholesterol, triglycerides, kidney disease, liver disease, gout and more. The cost of 24 blood tests would normally range from \$50 to \$100.

The purpose of Health Fair Expo is the early detection of abnormalities and the promotion of health awareness. The screenings are not intended to replace a thorough physical examination by a physician. Participants with apparent abnormalities discovered at the health fair will be counseled to consult their physician or will be referred to a local doctor or community health facility.

### Sports Day!

The second annual Caltech Sports Day will be held on Friday, May 4. Sports to be contested include basketball, football, running, softball, soccer, swimming, tennis, volleyball, and a triathlon. Sign-ups should be going up soon in the student houses, so sign-up and show up.

### Passover

Passover starts Monday night. If you need a seder to go to please call the Bayit, 793-3859 (not Saturday before 7:30 pm). Kosher for Passover foods are available through the Bayit. The dining halls will serve matza and grain-free menus through Passover.

### Humanities Research

The National Endowment for the Humanities has announced a unique grants program for individuals under 21 to spend a summer carrying out their own non-credit humanities research projects. The Younger Scholars Program will award up to 100 grants nationally for outstanding research and writing projects in such fields as history, philosophy and the study of literature. These projects will be carried out during the summer of 1985. The application deadline is September 15, 1984.

Award recipients will be expected to work full-time for nine weeks during the summer, researching and writing a humanities paper under the close supervision of a humanities scholar. Please note that this is not a financial aid program, that no academic credit should be sought for the projects, and that competition for these grants is rigorous.

For guidelines, write to: Younger Scholars Guidelines CN, Rm. 246, The National Endowment for the Humanities, Washington, D.C. 20506.

### Shabbat Potluck

Hillel's monthly Shabbat service and potluck dinner is tonight in the Y Lounge, Winnett Center, at 7:00 pm. If you can, please bring a dairy or vegetarian dish; if not, come anyway.

### Oops!

The Y Excomm results previously printed in this space were a little garbled. They *should* have stated that the Y's new president is Leslie Lippard; the new vice president is Kevin Gunning; the new secretary is John Beahan; and the new publicity coordinator is Andy Swanson. Retiring officers of the Excomm were Kelley Scott, president; John Beahan, vice president; Melissa Farrell, secretary; and Kent Noble, publicity coordinator. This time for sure...

### Summer Job Opening

Requirements: Junior status, 3.0 GPA minimum. Experience in FORTRAN & electronics. Preferred option: EE but will consider E&AS w/ME option. Contact Herman Krieg, Head-RAM Analysis Section, Performance Engineering Dept., TRW, Redondo Beach. (213) 535-6843 or 377-7565. For information on possible campus interview contact Career Development, x6361, Room 8, Parsons-Gates.

### Much Ado About Nothing

*Much Ado About Nothing* will be presented at Caltech at 8 pm on April 27 and 28, and May 4 and 5; and at 2:30 pm on April 29 and May 5 and 6. The matinee of May 6 will be interpreted in American Sign Language for the hearing impaired. Tickets are available for \$5.00 General Admission, \$3.00 Student and \$2.50 Caltech Student, at the Caltech Ticket Office, 332 South Michigan Ave. For further information call the Ticket Office at 356-4652.

### The Deadline Nears

The deadline for submitting contributions to the *Totem* is **Wednesday, April 18**. Send your poetry, prose, photographs and drawings to David Sahnaw, 1-55.

### Old little t's

We are still ridding the *Tech* office of back copies of the *little t*. If you would like an old (or new) *little t*, just pick them up in the Winnett Center under the travel board.

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### Musick's Recreation

Chamber music from the late 16th through early 18th centuries will be performed by Musick's Recreation, Sunday, April 15 at 3:30 pm in Dabney Lounge.

Included on the program will be Couperin's Concert Royaux No. IV; Jenkins' Fantasia in D minor; Walther's Suite in A Major; Buxtehude's Sonata No. III in A minor; Bach's Violin Sonata in G Major, BWV 1021; Rameau's *Pièce en Concert*, No. IV; and Telemann's Trio No. X in D Major.

Frank Traficante, Genette Foster and Kathleen McIntosh attempt to recreate the atmosphere that might have been experienced by the audiences for whom the music was originally intended.

Musick's Recreation is currently in residence at the Claremont Graduate School. Traficante holds the position of Chairman for their Graduate Faculty in Music. Foster is an Assistant Professor of Music at Occidental College. McIntosh teaches harpsichord and piano privately, in addition to holding positions at Occidental and Valley Colleges.

Admission to this concert is free of charge. For information, call campus extension 4652.

### KELROF

Kellogg's Eighth Light Regiment of Foot (or at least its spirit) will run again on May 19-20. For the uninitiated, KELROF is a 24 hour relay, run by teams of ten people. Each leg is a mile, so each person on the team runs once an hour or so, depending on the team's speed.

Even if you're not interested in running, your help is needed. In particular, we need people to time runners and help set up and tear down.

If you would like to run or help, or are just curious, call Dave Gallup at X6180.

Start training now.

### Russian Workshop

The Caltech/JPL Russian Language Workshop will begin its second quarter of study of the Russian language on May 2. The workshop meets each Wednesday evening in Steele Lab, room 110, from 7 to 9 pm. Membership is free and is open to the Caltech community and friends. For more information, call Larry Mak (JPL) 354-6748, or just stop by. Visitors are always welcome.

## Graduate Students

# Go Ahead Read This

The GSC is now buying 100 copies of *The California Tech* so that you can read *The Tech* and even contribute to it. Feel free to submit articles, announcements, or even pictures. We hope that on the basis of this trial period the GSC will opt to increase subscriptions.

## Read The Tech!

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