

Hey, I think this is our best paper of the decade.

# THE CALIFORNIA TECH

Mark, how was your ride today? Pretty good, I went 20 miles at 25 mph.  
Andre, how was your ride today? Pretty good, but my derailleur broke.

Volume XCI, Number 11

Pasadena, California

January 5, 1990

## Minority Scholarships

[OPR]—Caltech has received a grant of \$1 million from the James Irvine Foundation to fund Irvine postdoctoral and graduate fellowships for under-represented minorities. The purpose of the grant is to help increase the representation of minorities in the sciences and engineering. The Irvine Foundation grant will be used in tandem with Institute support for the same purpose.

"The Irvine grant addresses a serious problem—a lack of minority representation in the sciences and engineering," said Caltech President Thomas E. Everhart. "Caltech's programs are most attractive to outstanding students who have made early and strong commitments to science and technology. We must face the fact that

the percentage of the minority population that has had the opportunity and incentive to make that commitment is extremely small.

"As a result, the pool of minority representatives from which Caltech can draw is very limited. The problem is deeply entrenched, and resolving it will require a committed and determined effort. We are prepared to make that effort, because the long-term goals are so important. One of these goals is that the minority graduate students and postdoctoral fellows whom we attract will become role models and will draw other minority young people to careers in science and technology.

"Several forecasters are projecting significant shortages of doctoral-level scientists and en-

gineers through much of the next decade, including shortages of available faculty. We cannot afford to ignore the talented minority students in our midst. They represent an important resource to help us fill this shortfall.

"We are deeply pleased to be partners with the Irvine Foundation in this vital effort. We believe the offer of special assistance, along with determined efforts in recruitment, will enable us to be successful in attracting minority students at the graduate and postdoctoral levels."

The James Irvine Foundation is dedicated to enhancing the social, economic, and physical quality of life throughout California, and to enriching the state's intellectual and cultural environment.

## Superconducting Seminar Humanities Grant

The Caltech/JPL Supercomputing Project will be holding this month's noontime supercomputing seminar on Monday, January 8, 1990 in the JPL von Karman Auditorium from noon to 1 pm. This month's speaker will be Jack Worlton, President of Worlton and Associates, a consulting firm specializing in supercomputing.

The title of Mr. Worlton's presentation is "Supercomputers in the 1990's: A Technology Forecast." He will review the rationale, methods, and generic patterns of technological change used for technology forecasting. These methods are then applied to the underlying technologies (logic, memory, peripherals) that support the development of high-performance computers. Taxonomies of the architectures of high-performance computers are then developed as an intellectual roadmap of the trends in the design of these computers. The trends in the supercomputer industry and their impact on tech-

nology development will be reviewed.

Mr. Worlton holds a lifetime appointment as a Laboratory Fellow at Los Alamos National Laboratory. He was a member of the National Research Council's Committee on Supercomputer Evaluation, a member of the National Science Foundation's Technical Review Group for Supercomputer Centers, and a member of NASA's Technical Review Committee for the Aerodynamic Simulator. He has also served on numerous supercomputer committees for the Department of Energy.

Mr. Worlton has been a National Lecturer for the Association for Computing Machinery in the U.S. and has presented invited lectures in Europe (Great Britain, France, Germany, Norway, Netherlands, Austria, Switzerland, and Italy), the Far East (Japan, Korea and Singapore), and the Americas (Canada, Mexico, and the U.S.A.).

[OPR]—The Fletcher Jones Foundation of Los Angeles has given a grant of \$250,000 to the California Institute of Technology in support of the Institute's program for Postdoctoral Fellows in the Humanities.

The grant is a contribution to the \$1.5 million endowment fund that is being established by Caltech to support the postdoctoral appointments in perpetuity. Under the program, started ten years ago to strengthen undergraduate education in the humanities, postdoctoral fellows are appointed each year to augment the teaching staff. Fellows are chosen via a nationwide search and are chosen partly on the basis of the compatibility of their research interests with those of Caltech's own humanities faculty. Appointments are for two years.

"Caltech has traditionally placed strong emphasis on the humanities," said Caltech's President Thomas E. Everhart, in announcing the Fletcher Jones Foundation

continued on page 3

## Housing Notes

by Nancy Carlton

All undergraduate students living in on-campus houses, off-campus houses, 150 S. Chester, 1170 E. Del Mar, Marks/Braun House, or Catalina Complex I were billed for second term room charges on their December month's student account statement as follows: \$716.45 for on-campus houses and off-campus houses, \$761.84 for Marks/Braun or \$795.66 for 150 S. Chester, 1170 E. Del Mar or Catalina Complex I. The Housing Office is preparing the second term board billing and will assume students will remain on a board plan similar to the one they were on first term. For example, if you were on a lunch plan for first term, you will be billed for lunch only for second term. Students who wish to change their meal plan for second term must do so by the end of the first week of second term (TODAY, January 5) in the Housing Office.

Remember, there is a mandatory full board (lunch and dinner program) for students living in the seven on-campus undergraduate Houses. Students who have moved back on campus should come into the Housing Office to make board program changes.

For questions or concerns with your room and board charges on your student account statement, feel free to come into the Housing Office and speak with Patti Pratt.

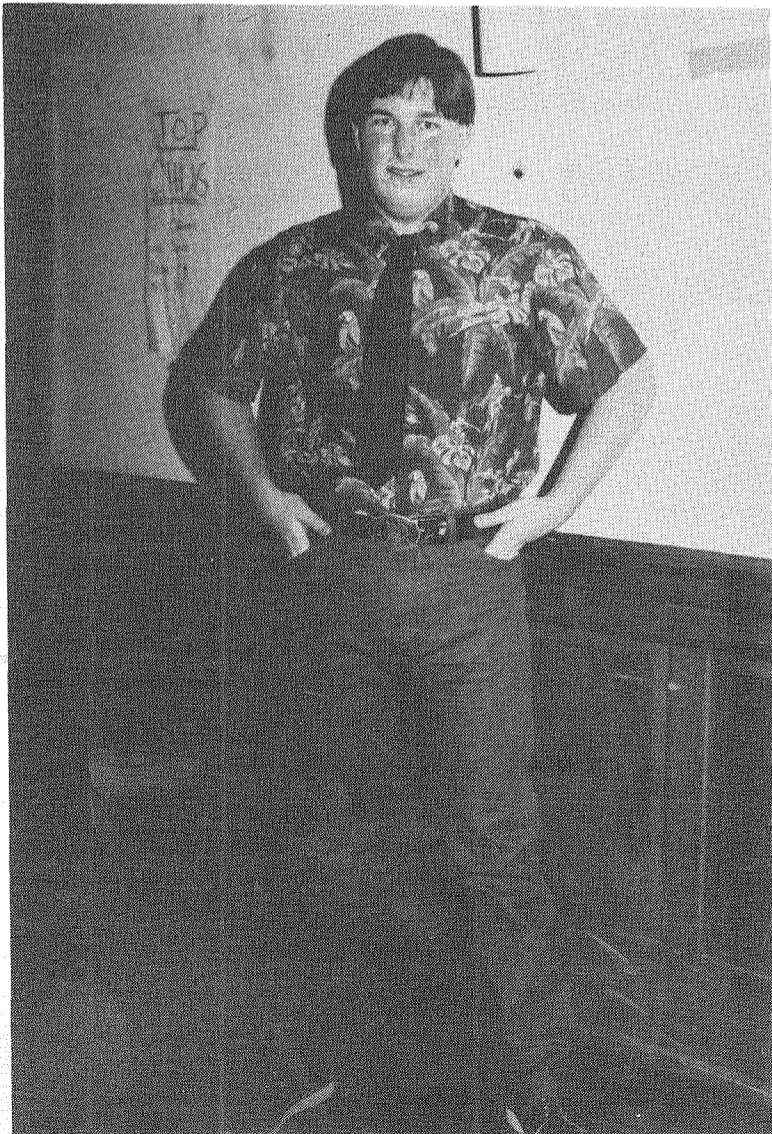


Exclusive Tech Photo: Flying fish attempts to kill woman. Husband saves her.

## Crime and Incident Beat

- 11-26 Three moles trespassing in the basement of central plant. They had gained entrance through the tunnels.
- 11-27 Four Lloydies were found in the gym pool at 11 p.m. They had climbed the fence to get in.
- 11-28 Caltech security found that someone had set up housekeeping in the attic of the Synchrotron building. There was a foam bed, two suitcase of clothes and books, plus a makeshift closet. There was a postcard dated 11/14 addressed to a student house, signed "Mom".
- 11-30 At 10:12 p.m., Victim was walking NW past Beckman Auditorium when she observed the suspect, who was masturbating with his shorts down. Suspect was gone when security arrived.
- 12-3 Purse stolen out of unlocked car on Holliston.
- 12-5 Bike stolen from the second floor of the Central Engineering Building.
- 12-5 Two people were soliciting magazine subscriptions at Catalina III.
- 12-5 Another person was soliciting subscriptions at 360 and 312 South Holliston.
- 12-6 Two students in Sloan Lab tunnels had their key confiscated. They said they were checking the tunnel system.
- 12-8 1988 Toyota in Lura lot had its window smashed and was ransacked, but nothing stolen.
- 12-9 An 18 year old man was passed out drunk in Fleming House. The Pasadena Police came and called his mother in La Canada, who took him home.
- 12-10 Some kids tried to take a Daihatsu from BSB lot by pushing it away. Security chased them away.
- 12-12 Unlocked bike stolen from the gym.
- 12-12 Unlocked bike stolen from the Housing Office.
- 12-13 Unlocked bike stolen from in front of Lloyd House.
- 12-14 At 5:40 p.m., a female student walking on California past South Mudd was confronted by a male in a car. When the suspect asked if she needed a "ride down to Hill", the victim observed the suspect masturbating.
- 12-14 A cordless electric drill and a small electric hand saw were stolen from Lauritsen Lab.
- 12-15 100-foot electric cord stolen from Church Lab.
- 12-15 Five skateboarders apprehended by Ramo Auditorium and made to leave.
- 12-17 At 12:10 a.m., Celina Mikolajzak called security to report that three Christmas ornaments had been broken and thrown on the floor of the Blacker House Lounge. There were no suspects in this heinous crime although extra patrols were assigned to the area.
- 12-19 Person running around the track had his shoes and keys stolen from the ground.
- 12-19 Pickup truck stolen on Hill next to the Athenaeum.
- 12-19 Attempted burglary from auto in Chester parking lot north of Beckman auditorium.
- 12-20 Alarm set off at the Lunatic Asylum in Arms Building.
- 12-20 Unlocked bike stolen from inside Behavioral Biology.
- 12-22 Macintosh computer and related equipment, answering machine, software, and research notes stolen from Crellin Lab.
- 12-22 Bag containing wallet stolen from an unlocked truck at the Athenaeum.
- 12-24 Bike stolen from second floor balcony. The person removing the bicycle would have had to climb up the fence surrounding the balcony below the victim's apartment then pull themselves to the balcony above, a rather Herculean effort, to steal a bike.
- 12-29 Macintosh and related hardware stolen from Beckman Lab.

Dollar value of items stolen over Christmas Break: \$24338.



Glenn Eychaner is proud of his new Christmas clothes.

LETTERS

Communication Breakthrough

To the Editors:

Responding to President Everhart's call for constructive dialogue about undergraduate life and to specific suggestions made by the InterHouse Committee, I have recruited a small committee of faculty and students to engage in a variety of discussions with members of the Caltech community, particularly the undergraduates. The goal of this committee, chaired by Rob Kiewiet, the chairman of the Student Housing Committee, and Ted Rogers, the secretary of the IHC, is to develop an understanding of the range of feelings and concerns about recent events and broader issues, such as standards of social behavior and responsibility. The other members of this group are faculty members Jean-Paul Revel, Mary Lidstrom and David Van Essen, and students Eric Candell and Jennifer Remine.

The Kiewiet-Rogers Committee will be meeting this month with interested students and others. They will hold discussions in each of the seven undergraduate houses and will identify for me and the IHC the most important areas of concern arising from the recent events and their aftermath. I hope that through their efforts and those of other faculty-student groups that will be assembled this term we will be able to focus on some important tasks: to inform and reassure one another, to identify problems that need to be addressed and, most important, to strengthen the framework of trust and understanding that gives us a sense of belonging to the Caltech community.

Sincerely,

-Gary Lorden  
Vice President  
for Student Affairs

Farfetched? Not At All

Dear Editor,

The use of space technologies such as satellites, solar system probes and the Space Shuttles, have been useful in the interests of NASA's stated purpose to explore the universe in search of its origins and extraterrestrial life.

Could it be that the reason why other civilizations have not yet been found may be that other "civilizations" used their technologies for the very same purpose: namely to explore other worlds, sadly neglecting, until it was too late, the problems that were facing their own worlds, as the problem of ozone depletion now faces ours?

Perhaps if we could lay aside this mad quest for other life forms similar to our own until with our incredible technology we can solve at least this one problem threatening Mankind with imminent extinction, we can indeed then live to resume the search for life.

Until then, let us orbit an ion generating satellite or two in the next Space Shuttle, checking the data in a month or so to see if atmospheric reionization could become a possibility. Does that idea seem so far-fetched?

-Jim Kirby

Where's Jim's World?

Editors,

What happened to *Jim's World*? Bring back *Jim's World* back right now, and I want you to replace that with a stupid new format. I love *Jim's World*. Bring it back.

-anonymous

We don't know what you're talking about, but *Jim's Journal* is reappearing in the paper this week. Keep those letters coming.-the editors.

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If History Were Different

by Nick Smith  
*What Might Have Been, Vol.2: Alternate Heroes*  
edited by Gregory Benford and Martin H. Greenberg  
Bantam Books, \$4.50

Volume 1 of this series, *Alternate Empires*, dealt with the effects of small changes in the course of history. As I mentioned in this column a few months ago, it was pretty good, with a few flaws. The whole series is based on the old game of "What If . . .", speculations about what *might* have happened if specific things had gone differently at some point in history. Well, this book is better than volume 1.

*Alternate Heroes* focuses on famous people, and offers arguments on both sides of the question of whether people shape events or events shape people. The title is somewhat misleading, since the point of several of the stories is that

central figures for parts of them to make sense. For example, most well-educated people have at least some familiarity with Gandhi's principles of non-violence, or know a little bit about what Stalin was like. On the other hand, how much do you know about Einstein's childhood? How many of you know how T.E. Lawrence died, or what happened to him when he was captured by the Turks? (Hands up, so we can count!) Or at least what *he* said happened. . . The point is that, if you enter the story with no background, you will leave it with limited enjoyment.

Overall, *Alternate Heroes* is an excellent collection of stories for science fiction fans who also happen to have a pretty good knowledge of history. It is merely a *good* collection for people who don't know Roncesvalles from a Ronco Vegematic.

*real* people are not always heroic, even if posterity paints them that way. This book focuses on alternate versions of the lives of Gandhi, Stalin, Genghis Khan, Einstein, T.E. Lawrence. . . each with some vital fact altered. Einstein has chosen music over science, Gandhi's passive resistance must face the German Wehrmacht instead of the British, and Lawrence (of Arabia) has survived long enough to meet Rommel.

Depending on the personal preferences of the authors (Robert Silverberg, Barry Malzberg, Harry Harrison and others), either the man overcomes the events or the events overwhelm the man. Either one is believable in a well-written story, and these, for the most part, are.

The only *disadvantage* to a collection of stories like this is that you need to know a good deal about the "real world" lives of the

Looking Through My Mail

by Shane Sauby

I recently went through the mail in the *Tech* office that had been piling up in the Entertainment Editor's box. What I found was more amazing than any archaeological dig ever discovered. I found letters from the past three months, stuffed, shoved, stacked, and mangled together into a giant mass of paper. So, I took it all out, sorted it, filed it, read it, thought about it, and found at least a couple of things to tell you about that were current (unlike 90%, which had to do with all the fun stuff that went on in November and December).

The La Mirada Civic Theatre, located at 14900 La Mirada Blvd.,

sent us their 1989-90 schedule. The next show will be *The Boys Next Door* with Tony Orlando. It will run from Jan. 9th thru 28th. Tickets are available at the La Mirada Civic Theatre Box Office, or you can call (213) 944-9801 or (714) 994-6310.

The Music Center Operating Company announced their free guided tour schedule has changed to its winter schedule. There are one-hour tours every Tuesday, Wednesday, and Thursday and on the 2nd and 4th Mondays of the month. There are also half-hour tours every Saturday. The tours will leave from the front entrance of the Dorothy Chandler Pavilion

between 10 am and 1:30 pm weekdays, and between 10 am and 12 noon Saturdays. The tours are interesting and informative, taking the tour through the three theatres at the Music Center: the Dorothy Chandler Pavilion, Mark Taper Forum and Ahmanson Theatre. The Saturday tours are of the Dorothy Chandler Pavilion only. These tours are fun, since you get to see some of the waiting rooms and artwork in and around the center. The tour guides are usually intelligent and knowledgeable, and will answer questions as well as they can when asked.

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THE CALIFORNIA TECH

Volume XCI • Number 11  
January 5, 1990

EDITORS

Mark Lyttle  
Paul Socolow  
Scott Kister

CRIME BEAT EDITOR

Brian Kurkoski

WRITERS

Shane Sauby

PHOTOGRAPHS

Matt Fetterman, ed.

PRODUCTION

Nick Smith

BUSINESS MANAGER

Sonny Arcilla

OFFICE MANAGER

Gavin Claypool

CIRCULATION

Peyjen Wu  
Ayman Awad

THE CALIFORNIA TECH

40-58 SAC

California Institute of Technology

Pasadena, California 91125

(818) 356-6154

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 letters for literacy, expediency, or else.

Turn in copy (preferably in WordStar format on an IBM-compatible floppy disk) to the *Tech* mailbox outside SAC room 40. The deadline for copy is Wednesday at noon; for announcements, Tuesday at 5 p.m.

Subscription requests should be directed to the office manager. Subscriptions are \$3.50 per term, \$9 for one year, \$17 for two years, \$24 for three years, and \$30 for four years. Life subscriptions are available for \$125.

Printed by News-Type Service, Glendale.

ISSN 0008-1582

# Coral Cuisine Good

By Kim Lumbard

The Ocean Coral restaurant stands on East Colorado Boulevard, between Altadena and Sierra Madre. A large yellow fluorescent sign hangs above the entranceway, and the outside front takes up less than fifteen feet of sidewalk space. The outside is done over in white stucco. Yet do not be misled by the tacky exterior; inside is a rare treasure for college students.

First and foremost, the food at the restaurant is excellent. The Ocean Coral specializes in "Mandarin Cuisine and Sea Food," and all the meals are prepared under the direction of the award-winning chef Chiu Lam. They have a wide selection of gourmet dishes, and each one is delicious. A sampling which the author himself has purveyed includes the Three Ingredient Tastes (shrimp, chicken, and beef), delicate Braised Baby Lobster Tail, and the house's special Tangerine Beef. In fact, if you don't find your favorite dish on the menu, they will actually prepare a custom meal to your specifications (if they have the ingredients available).

The prices of the gourmet meals are reasonable, with a single plate costing about \$9 to \$12; a full repast with soups, appetizer, and dessert included costs about \$12 to \$15 per person. Ocean Coral caters to the poor man as well (which includes every Caltech student). There is a selection of Special Luncheons which range from \$4 to \$6, and the Dinner Specials cost about \$5 to \$7. These dishes are not as large as the gourmet ones, but they are quality meals nonetheless. The drawback

is that the specials are only served at certain times, 11:30AM-3:00PM for lunch, 3:00PM-7:00PM for dinner.

Ocean Coral is a general class establishment, with the perfect atmosphere for an intimate rendezvous. The interior decor is tasteful without being garish, and soft music plays subtly in the background. The lighting dims gradually as the night progresses, and each table has its own fragrant candle. The waiters are well-mannered and discrete, and the service is always prompt. An array of cocktails and wines is offered, and there is a cocktail lounge as well. While reservations guarantee seating in advance, it is possible to walk in and be seated without delay. This is a great place to take that special someone (subsidized by the Don Shepard Fun Fund, of course).

There are myriad little things which make the restaurant memorable. Moist towelettes are included with the meals, so the diner doesn't feel embarrassed eating some foods with his hands. The diners have their own plates, and the entrees are served on separate ones; therefore, two or more people can partake of a variety of dishes at the same meal. The fruits and vegetables are cut up into shapes, spicing up the meals in more ways than one. There are free parking spaces behind the restaurant.

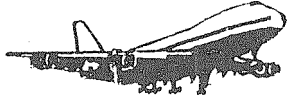
The Ocean Coral restaurant is well worth visiting. It is an old style restaurant; every attempt is made to accommodate the diner, and it is possible to get to know the staff on a first name basis. "I give this restaurant two thumbs up; I would gladly give it more if I but had more thumbs."



If Caltech can make a man out of Dave Kim, think what it can make of you.

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## Jones Grant

from page 1  
 gift. "Undergraduates are required to take 20 percent of their courses in the humanities and social sciences because it is important for scientists and engineers to understand people, both individually and collectively, and the cultures of the world. We are, therefore, particularly grateful to the Fletcher Jones Foundation for its attention to this aspect of our excellence in education."

The Fletcher Jones Foundation was founded in 1969, and is named for the co-founder and CEO of Computer Sciences Corporation of El Segundo. Jones died in 1972. Since 1969 the Foundation has made substantial grants to private colleges and universities, primarily in California. At Caltech, the Fletcher Jones Foundation has established a professorship and a student loan fund, and has provided support for the construction of the campus computer network.

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Today I was just sitting around watching TV. (Bewitched was on.)

Kurt, Tony's friend, came over. He was eating a bag of cheese puffs.

Tony wasn't home, so Kurt came in and waited for him.

He sat and watched Bewitched with me and laughed out loud.

Today I was trying to do some french homework. This time it was parts of the body. We're supposed to learn them all.

It was aggravating—just trying to memorize words. For a while I just stared at my book and crossed my eyes so the pages melded together.

Today Steve told Tony and me that we have to wash the dishes more often.

He said there's always a giant pile of dirty dishes in the sink, and it annoyed him.

Tony said, "they're not ~~my~~ dishes, at least most of them aren't."

We both told Steve we'd try to wash them more often.

Dean sat next to me in my Ethics class today.

He said, "which tie do you think Bauchman will wear today?"

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"The red and yellow striped, or the brown." (Bauchman is the professor.)

He came in wearing the brown tie, and Dean said, "next time let's put money on it."

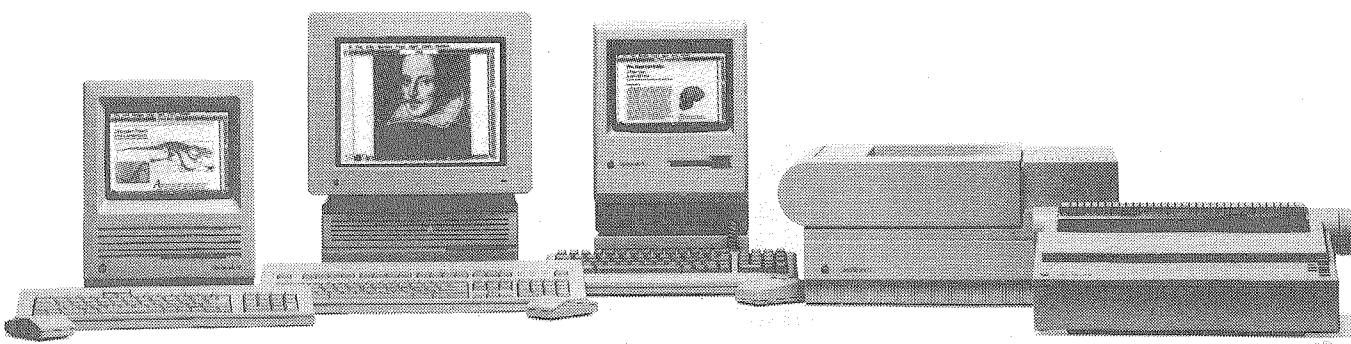
"I say red and yellow," he said.

Jim's Journal by Jim

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## Results of Football Picks

The final results of the first ever editor's college football picks are in. Scott Kister was first with a record of 76-23, Paul Socolow made a late surge into second (71-28), while Mark Lyttle faded to last (66-33). The football season is over so now (we know you've been waiting for this), it's time for our

## Basketball Picks

Day	Date	Time	Sport	Opponent	Location
Sat.	1-6	7:30 pm	Basketball (V)	Colorado College	Caltech
Sat.	1-6	TBA	Swimming (M-W)	U.C. Irvine Invitational	U.C. Irvine
Sun.	1-7	TBA	Swimming	U.C. Irvine Invitational	U.C. Irvine
Wed.	1-10	6:00 pm	Basketball (JV)	Redlands	Caltech
Wed.	1-10	8:00 pm	Basketball (V)	Redlands	Caltech
Sat.	1-13	11:00 am	Swimming (M-W)	Redlands	CMS
Sat.	1-13	6:00 pm	Basketball (JV)	Pomona-Pitzer	Caltech
Sat.	1-13	8:00 pm	Basketball (V)	Pomona-Pitzer	Caltech

Day	Date	Time	Sport	Opponent	Location
Sat.	1-6	7:30 pm	Basketball (V)	Colorado College	Caltech
Sat.	1-6	TBA	Swimming (M-W)	U.C. Irvine Invitational	U.C. Irvine
Sun.	1-7	TBA	Swimming	U.C. Irvine Invitational	U.C. Irvine
Wed.	1-10	6:00 pm	Basketball (JV)	Redlands	Caltech
Wed.	1-10	8:00 pm	Basketball (V)	Redlands	Caltech
Sat.	1-13	11:00 am	Swimming (M-W)	Redlands	CMS
Sat.	1-13	6:00 pm	Basketball (JV)	Pomona-Pitzer	Caltech
Sat.	1-13	8:00 pm	Basketball (V)	Pomona-Pitzer	Caltech

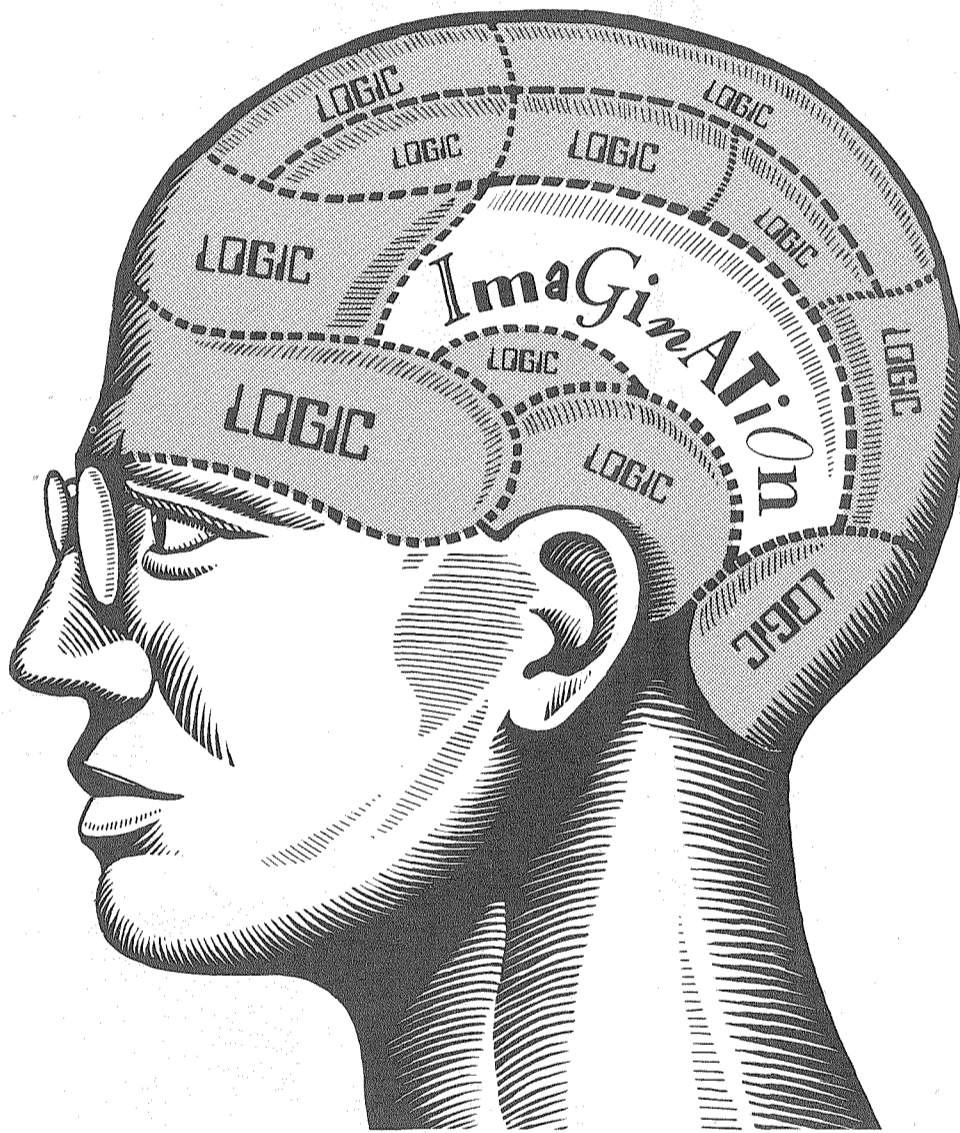
  

Day	Date	Time	Sport	Opponent	Location
Sat.	1-6	7:30 pm	Basketball (V)	Colorado College	Caltech
Sat.	1-6	TBA	Swimming (M-W)	U.C. Irvine Invitational	U.C. Irvine
Sun.	1-7	TBA	Swimming	U.C. Irvine Invitational	U.C. Irvine
Wed.	1-10	6:00 pm	Basketball (JV)	Redlands	Caltech
Wed.	1-10	8:00 pm	Basketball (V)	Redlands	Caltech
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Sat.	1-13	6:00 pm	Basketball (JV)	Pomona-Pitzer	Caltech
Sat.	1-13	8:00 pm	Basketball (V)	Pomona-Pitzer	Caltech

## WEEKLY SPORTS CALENDAR



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# ASCIT Elections

## Voices Needed!

On March 23, 1990 the Caltech Men's Glee Club will perform Argento's *The Revelation of St. John the Divine* for the Intercollegiate Men's Choral Festival in Santa Barbara. This annual event draws together the best men's choirs from all over the country. Caltech will be a featured chorus at this year's festival. We welcome all those interested in singing, regardless of what you think of your own ability. Please call Don Caldwell at x6197 ASAP.

## SSSSP Tutors Needed

We will be needing tutors for our Summer Secondary School Science Program, that begins June 25th and goes through August 9th, 1990. The hours are from 9:00 am to 3:30 pm, Monday through Thursday. We will need: 4 tutors each teaching Molecular Biology, Chemistry, Physics/Trig and Physics/Calculus. Our first preference is to have seniors, then juniors and last sophomores. Applicants may call x6207 or x6208, or come by Lee Browne's office at 107 Winnett Center.

## Japan-America Conference

Positions are available on the American delegation of the 1990 Japan-America Student Conference (JASC). JASC is an internationally coordinated program for university students held alternately in the U.S. and Japan. The program is held in English. This year's program will start in Anchorage, move to Seattle, and conclude in San Francisco. There will be an orientation in Portland before the program. JASC is open to any student who is a U.S. citizen or has permanent resident status. Application deadline is February 23, 1990 for this summer's program. The Career Development Center has more information and applications. Stop by at 08 Parsons-Gates.

## Kach International Presentation

Are you tired of hearing the same left-wing, liberal, "pacifist", pro-Arab opinions on Arab-Israeli conflict? Do you want to listen to some real DIFFERENT and challenging points of view? If your answer on at least one of this questions is "yes" then come to Kach International presentation at Caltech Y on Wed. January 10th at 7:30 p.m.

Kach International is the support movement of Rabbi Meir Kahane and his Kach movement in Israel. The presentation will be focused on the problems of survival of the Jewish state. The speaker is Mr. David Braverman the West Coast coordinator of Kach International.

## Recon for Excomm

This Monday, January 8, 1990 will be the first Y Excomm meeting for 2nd term. Start off the new term right by attending this very important meeting. It's at noon in the Y Lounge.

## Gay/Lesbian Discussion Group

On the 1st and 3rd Tuesdays of each month, all students, staff and faculty are invited to an ongoing discussion of Lesbian/Gay topics, from 7:30 to 9:00 pm. The next topic is: Activism—If, how, and by whom. After this, time is devoted to informal talking, with refreshments provided. This confidential meeting is held in the Health Center Conference Room; call x8331 for further information.



This could be you, a big chief with bigum authority and plenty of wampum.

## Upcoming Folkdancing Events

Folk dancing on Tuesday nights in Dabney Hall Lounge. Teaching from 7:30-9:00 pm, with dancing from 9:00 to 11:30ish. On January 30th, we will have Jaap Leegwater, internationally-known folk dance instructor, as a guest teacher. Join us on Feb. 6th for our first "Beginners' Night." A great way to get started. Last but not least, come on February 13th for our 21st Anniversary/Valentine's Day Party, with live music.

## Speech And Debate Meetings

Debate meetings and meetings for the Speech Team will be held Mondays from 4:30 to 5:00 this term in SAC Rm. 15. Meetings will be for information, tournament registration, and practices. For more information, contact Craig Volden at 1-60 or x3762.

## SEDS Meeting

SEDS will be holding its monthly meeting on Monday, January 8 at 7:30 pm in Rm. 13 of the SAC. Besides the regular activity announcements and discussions, they will show the launch of Magellan. Special discussion topics will include the acquisition of shuttle experiment space, trips, and speaker confirmations. For more information, contact Sonny Arcilla at 577-4423.

## The Inside World

This Week's *Inside World* was written by:  
Ricketts: Joe Dadek

Blacker	25 0 0
Dabney	38 0 0
Fleming	20 0 0
Lloyd	27 0 0
Page	15 0 0
Ruddock	33 0 0
Ricketts	23 1 1

## Ricketts

I remember in the old days, when they all laughed at me and said I was too absurd to take seriously. Occasionally, I was brought to a meeting, but usually I just sat on a shelf or in the back of a closet, waiting for some year when my custodian would properly appreciate me. But time passed and eventually I was put away for several years and forgotten.

Then, last year, I was found again and delivered to my elected custodian, that person who has been selected from among all Caltech undergraduates to uphold the ideal I represent. Yet he too ridiculed me and forced me to wear sunglasses and a bow tie. After these indignities, he then abandoned me over the summer, leaving me alone again. Yet I endured all of this, for I knew that someday my time would come.

From this desolation, I was removed to one room after another, placed in a position of prominence to shock the occupant as an RF. After several weeks of this, I was placed in a public room to once again become an object of derision. But at least now I was known. I might find someone to take me seriously since I was not stuffed in a closet somewhere.

Then somewhere in this time something wonderful happened. Those who used me as the butt of jokes came to have a certain respect for me. They began to accept me as something unique, without precedent. When classes began again, I was included in part of the ceremony of induction for new residents, fans cheered my name, and I was placed on a pedestal of great height so that all might see me. I felt that I had surely arrived, and would now receive the respect and admiration which has always been my due.

But the next day I was still sitting upon the pedestal atop which I had been placed during the celebrations. Before anyone awoke, a fiend knocked me from the platform into the mud twelve feet below and spirited me away to where I am now, though I know not where this is. A fiend indeed since he is one of those elected to serve the campus and should be protecting my interests instead of exiling me.

Imprisoned here, I can only long for my release and hope that my friends can forgive me for this abandonment. I can still hear them calling my name, occasionally shortly after midnight, or one afternoon early in December. If anyone can hear my plea, please help me gain my release from this purgatory. Go up to this fiend, this "Ascit president", this Dick Bob, and demand that he return me to a place of honor as befits a symbol of my importance. I will return! I will triumph! For I am

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-The BOJ (as told to the Physics Messiah)

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**WINNING CAREERS**  
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 PRICE/PERFORMANCE = EXPANDABLE  
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**On Campus Interviews:**  
**January 19**  
**Schedules for:**  
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Submit announcements for *What Goes On* on forms available outside the Tech office (SAC room 40A) and in the copy/mail room (SAC room 37), or use a plain piece of paper. Send announcements to 40-58, or put them in the IN box outside the Tech office. Indicate the date(s) the announcement must run. Announcements for the current issue must be received by 5 pm Tuesday and should be shorter than 75 words. Announcements will be published as space becomes available and will be chosen according to size and interest to the Caltech community. Announcements for commercial events unrelated to Caltech will not be published.

**Play Bridge**

Play bridge at the Caltech Bridge Club this Monday. We meet every Monday at 7:00 pm at the Red Door Cafe on the second floor of Winnett Student Center. No card fee, no membership fee, no partner needed. Undergrads, grads, faculty, etc. welcome.

**Martin Luther King Day**

Although the federal holiday commemorating the birthday of Dr. Martin Luther King, Jr., is not a school holiday, the Institute will present a program commemorating the impact of the slain civil rights leader's life on Monday, January 15, 1990. The event will take place in Ramo auditorium and is open to the entire Caltech community.

The program will begin at 1:00 p.m. and will last approximately two hours. The first part will begin with Dr. John Slaughter, president of Occidental College, addressing the continuing impact of King's leadership in the civil rights struggle in America during the 50's and 60's. After Slaughter, Dr. J. Morgan Kousser, professor of history and social science at Caltech, will discuss the Voting Rights Act and litigation associated with it since King's assassination in 1968.

The second part of the program will be a special tribute to King by the Joshua Natural Sound, a four-member jazz band. The performance will include the music of John Coltrane, with dramatic excerpts of King's dynamic writings and speeches about non-violence, brotherhood, and peace. The event concludes with a recitation of the legendary "I Have A Dream" speech.

**Ballroom Dancing Is Back!**

Starting Jan. 16, ballroom dancing lessons will be offered every Tuesday from 4-5 pm in Winnett, through second term. They will cost \$20 for students and \$30 for non-students. Sign up in the Caltech Y soon, since space is limited.

**Playboy Wants You...**

...to write and enter their College Fiction Contest. There is a \$3,000 first prize to the winner. To enter, submit an original, unpublished story, less than 25 pages (double-spaced). Send manuscript and 3x5 card with name, address, phone number and college affiliation to: Playboy College Fiction Contest, 919 N. Michigan Ave., Chicago, IL 60611.

**Cross Country Run**

The Child Education Center, a preschool/daycare organization sponsored in part by Caltech and JPL, is holding a 5-mile cross country run beginning and ending at Oak Grove Park in La Canada, near JPL. The entry fee is \$16, including T-shirt and finisher's medal. Entries will be accepted until 8 am on the day of the race, which is tomorrow, January 6th. For more information, call Bobbie or Lisa at (818) 354-3418.

**Clairvoyance and Caution**

On Wednesday, January 10th at 4:00 pm in 119 Kerckhoff, Professor Leslie Steven Rothenberg from the UCLA Medical School and Professor Nancy Wexler of Columbia University will present a program entitled "Clairvoyance and Caution: Repercussions from the Human Genome Initiative." Discussion and refreshments following.

**McCaffery Speaks On Hughes**

The Caltech Management Association presents Robert McCaffery, discussing "Howard Hughes, His Influence on Aviation & Technology in Southern California Today." The talk will be on Tuesday, January 9th at 5:00 pm at the von Karman Auditorium at JPL. McCaffery, vice-president of MIDCOM, chaired the committee that saved the Spruce Goose from destruction ten years ago, and will provide a refreshing insight into Howard Hughes, his airplanes, his technological achievements, and highlights of the Spruce Goose.

**Chemistry Course**

Ch 241a, Topics in Advanced Organic Chemistry. 6 units (2-0-4); second term; Prerequisite: Ch 41abc (Ch 144ab recommended, but not required). FT-NMR basics and applications, with emphasis on those techniques used in structural analysis, including decoupling, NOSEY and COSY. Extensive practice in the use of these techniques will be available with the highly interactive Chapman-Russell FT NMR Problems program which features on-screen spectra at a variety of magnetic fields, with and without, decoupling, and so on. The practical use of NMR to determine reaction rates, as of conformational equilibration, will be described, as also will be applications of NMR to imaging and spectroscopy of living systems. Instructor: Roberts. Texts: H. Duddle, W. Dietrich: *Structure Elucidation by Modern NMR*, J.D. Roberts, *Notes on FT-NMR*. Time: 11:00 am TTH, 151 Crellin.

**Guitar Classes at Caltech**

CIT guitar classes will meet on Tuesdays starting January 9 in SAC Rm. 1 as follows: Beginning guitar class 4:30-5:30 pm, Intermediate guitar class 3:30-4:30 pm, Advanced guitar class 5:30-6:30 pm. Classical and flamenco repertoires are explored, but techniques transfer to other styles of guitar. The beginning class includes a new jazz and folk chord system. Classes are free to Caltech students (and other members of the Caltech community, space permitting). Undergraduates can receive two units of credit if they choose. Private instruction on any level can also be arranged. The instructor, classical guitarist Darryl Denning, has an international background in performance, recording and teaching, and can be reached at (213) 465-0881.

**Korean-American Students**

The Korean-American Student Association meets on alternate Mondays at 8 pm in SAC Rm. 13 (Clubroom A). The second term meetings will begin on January 15, and follow every two weeks. All members, and those who want to be members, are encouraged to attend. As always, there will be free munchies. Please contact Dong-su Kim at x8309 if you have any questions.

**Leadership America**

The International Leadership Center is seeking applicants for the fourth session of Leadership America, a summer program which will begin June 8 and conclude August 16. During that period, the students will attend sessions that take place at Duke University, Colorado Outward Bound, Southern Methodist University, and in Washington D.C. In addition, there is a four-week, self-selected internship in business, government, or community service followed by a closing session.

Students incur few expenses in Leadership America, since most costs are underwritten by corporate sponsors.

To be eligible for selection to Leadership America, a student must be currently enrolled in a four year (or more) undergraduate program and have completed the junior year of this program by June 8, 1990.

The primary criterion for selection is that a student have an "outstanding potential for leadership." Selection will begin in February, 1990, and invitations will be extended in mid-March.

For additional information about Leadership America, contact the Deans' Office, 102 Parsons-Gates, x6351. Applications for this program must be returned to the Deans' Office no later than Monday, January 29, 1990.

**Flight Team Needs Members**

The Caltech Flying Team needs members for the 1990 competition season. The team competes against other schools in precision flying events (not races). There are also non-flying events, such as aircraft identification, aircraft preflight, and general aviation knowledge. There are two competitions this year: in February at nearby La Verne, and in April in Sierra Vista, AZ. These events are always lots of fun for those involved. An organizational meeting will be held Monday, Jan. 15 at 7:30 p.m. in 114 E. Bridge. Pilots, student pilots and other flying enthusiasts are encouraged to attend. For more information contact Barry Sheehy (x4848), Jim Kaufman (x3807), or Kevin Condroski (577-6645).

**L.A. Philharmonic Tickets**

The Caltech Y has L.A. Philharmonic tickets at \$5 each for the following dates: Jan. 17, April 1, 8, 15, 20, 27. Come by the Y for venue info.

**Speech & Debate Coach Needed**

The Speech and Debate Teams are looking for a coach. This is a paid position open to faculty, staff, graduate students, or experienced debaters. Experience is preferred. Contact the Debate Team at 100-58 or Craig Volden at x3762.

**Scholarship Listings**

The Financial Aid Office has applications and/or information on the following scholarships. All qualified students are encouraged to apply. The office is located at 515 S. Wilson, 2nd floor, phone x6280.

The College Women's Club of Pasadena is offering scholarships for 1990-91 to full-time undergraduate students. The amount of the award is \$2,000, which may be used for tuition/fees, textbooks, and lab fees. Full-time graduate students may apply for fellowships of \$3,000. Submit applications, with transcript, current course list and three recommendations to the Financial Aid Office by February 1. One undergraduate and one graduate student will be selected from the applicants to submit to the College Women's Club by their deadline.

The National Space Club is awarding a \$7500 scholarship for the academic year 90-91 in memory of Dr. Robert H. Goddard. The applicant must be a U.S. citizen, in at least the junior year with the intent of pursuing undergraduate or graduate studies in science or engineering. The deadline for application is today, January 5, 1990.

The Gloria Fecht Memorial Scholarship Fund is offering a scholarship of ranging from \$1500-2000 to a young woman attending a university in California or Arizona. Applicants must have an interest in golf and financial need. Applications must be mailed on or before March 1st.

The Coors Veterans' Memorial Scholarship Fund is offering scholarships ranging from \$2,000 to \$5,000. Applicants must be sons or daughters of Honorably Discharged Veterans, active military personnel, or American service personnel Killed in Action, Missing in Action, or Died in the Line of Duty. Applicants must also be under the age of 22 as of March 15, 1990, have completed a minimum of one semester of college with a minimum 3.0 cumulative GPA. Deadline is March 15, 1990.

The Coors Veterans' Memorial Scholarship Fund is offering scholarships ranging from \$2,000 to \$5,000. Applicants must be sons or daughters of Honorably Discharged Veterans, active military personnel, or American service personnel Killed in Action, Missing in Action, or Died in the Line of Duty. Applicants must also be under the age of 22 as of March 15, 1990, have completed a minimum of one semester of college with a minimum 3.0 cumulative GPA. Deadline is March 15, 1990.

The National Roofing Foundation is pleased to announce the availability of scholarship awards for 1990-91. Full-time undergraduate and graduate students enrolled in architecture, engineering or other curriculum related to the roofing industry are eligible to apply. Deadline is February 1, 1990.

The Society for the Advancement of Material and Process Engineering is offering numerous undergraduate scholarship awards. Engineering students with a minimum 3.3 cumulative GPA are eligible. Deadline is February 1, 1990.

The Sylvia W. Farny Scholarship has a grant of \$1,000 to be awarded to a student for the final year of undergraduate study. Applicants must be U.S. citizens and studying Mechanical Engineering. Deadline is February 15, 1990.

The American Society of Naval Engineers sponsors a scholarship program to encourage students to enter the field of naval engineering. Scholarship awards of \$2,000 each are available for the 1990-91 academic year. Undergraduates in their final one or two years and graduate students who have not received an advanced degree are eligible. Applicants must be U.S. citizens and demonstrate a genuine interest in naval engineering. Financial need is not required, but may be taken into consideration. Deadline is February 15, 1990.

The Arizona Honors Academy has an opportunity for undergraduates to discuss important world issues with writers, sociologists, national security officers, historians, physicists, and arms negotiators at their summer session entitled "Seeking National Security in an Insecure World." Applicants must be undergraduate students who have completed 27 semester hours with a minimum cumulative GPA of 3.5. Deadline is February 15, 1990.

The Society of Women Engineers has 29 scholarships varying in amounts from \$1,000 to \$3,000 for 1990-91. There are different requirements for each scholarship. Undergraduate women majoring in Engineering are encouraged to apply. Deadline is February 1.

The Korean American Scholarship Foundation has seventeen \$1,000 scholarships available for full-time students of Korean American heritage. Applicants must be in at least their sophomore year. Deadline is January 31.

The California Angels have created the Jimmy Reese Scholarship Fund. Scholarships of \$1,000 each will be awarded to an applicant currently studying in the area of sports medicine. Residents of Orange, Riverside and San Bernardino counties who are currently enrolled and in good standing at either the undergraduate or graduate level are eligible to apply. Awards are based on academic achievement as well as commitment to enhancing the field of Sports Medicine. Deadline is March 15.

The National Federation of the Blind has eight scholarships available to legally blind persons in either undergraduate or graduate level. Each scholarship has different requirements, so interested students should contact the Financial Aid Office. Deadline is March 31.

**Nuclear Training Scholarships**

The National Academy for Nuclear Training Scholarship Program is offering \$2,000 scholarships for students who will be sophomores, juniors, and seniors during the 1990-91 school year. To be eligible, a student must be a U.S. citizen, enrolled full-time, and pursuing a bachelor's degree in nuclear engineering, power generation health physics, or a nuclear/power option in such disciplines as chemical engineering, electrical engineering, or mechanical engineering. The scholarships are given on a merit basis to students who have excellent academic records as well as demonstrated interest in and potential for a career in the nuclear utility industry. For more information, contact the Financial Aid Office at 515 S. Wilson. Completed applications are due January 15, 1990 and should be submitted to Dr. Noel Corngold, Mail Code 1218-95.

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