



Frosh Camp exposed.

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What's playing on the radio?

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# THE CALIFORNIA TECH

VOLUME XCVIII, NUMBER 2

PASADENA, CALIFORNIA

FRIDAY, 27 SEPTEMBER 1996

## Third symposium on media & science goes national via satellite

BY PUBLIC RELATIONS

This year, when Caltech brings media professionals to talk with Caltech researchers and the public, they'll discuss "Science & Journalism: A Marriage of Opposites." And for the first time, colleges and universities around the country may participate by receiving a live broadcast with two-way communication from 9 a.m. to noon.

The October 3 symposium will include an all-morning panel discussion and "candid exchange of views" between the two cultures represented by science and journalism, according to Caltech's Office of Public Relations, which is sponsoring the event. A luncheon address will then be given by Miles O'Brien, science

and technology anchor for CNN.

Panelists include Jacqueline Barton, professor of chemistry at Caltech; Glenda Chui, science reporter for the San Jose Mercury News; Tony Dill, producer for NBC's The Today Show; Robert Ferrante, executive producer of NPR's Morning Edition; Joel Greenberg, science editor for the Los Angeles Times; and Daniel Kevles, Koepfli Professor of the Humanities at Caltech. The moderator is David Garcia, science reporter for Fox News.

The luncheon and keynote address are scheduled from 12:15 to 2 p.m. Based at CNN's Atlanta headquarters, keynote speaker O'Brien hosts the network's "Science and Technology Week," produces stories for daily news program-

ming, and is a weekend news anchor. He has been honored for writing documentaries on the heavy use of pesticides at Costa Rican banana plantations (Sweet Fruit: Bitter Harvest), on technology conversion in the U.S. and Russia (Swords to Plowshares: The Price of Peace), and on the information superhighway (TV 2000) -coproducing the latter two-among others. Now in its third year, the Media & Science Symposium is designed "to help researchers, journalists, and communications professionals learn how to work together more effectively."

To reach a wider audience, Mullin Consulting, Inc. is underwriting the satellite broadcast of the three-hour panel discussion. Schools that participate will have a two-way communication link that

will allow audience members to address the panelists.

Mullin Consulting, Inc., led by chairman and CEO Peter Mullin, a Caltech trustee, is a consulting firm specializing in non-qualified executive benefit programs for major corporations, many within the Fortune 500. It has offices in Los Angeles, Minneapolis, New York, and San Francisco.

To register, call Sue Pitts at ext. 3227. Members of the campus and JPL community may sign up to attend the panel discussion free of charge and the luncheon at a reduced rate of \$20 on a space-available basis. Non-Caltech rates are \$40-\$95.

## Mannion responds to Avery article

BY SHAY CHINN

Tom Mannion, Director of the Housing office, said that the Avery House article in last week's Tech was inaccurate on several points.

Mannion has been assured by Rich Fagin, director of CCO, that the network in Avery is operational.

Mannion and the Housing staff are aware that, to many students, the key card system sounds like a page from George Orwell's 1984. Mannion stated that the goal of this system is to increase convenience, and he would take any steps he could to ease students' concerns. He encouraged those who had suggestions for the new card systems or any security measures to stop by.

Students hired by Mannion to oversee the implementation of the system have several concerns. At this time, the data is being transmitted over the campus-wide LAN CITnet. CITnet is connected to the Internet and hence is vulnerable to attack from outside Caltech, as well as local network devices.

We at *The California Tech* were able to demonstrate the accessibility of the key server by gaining a login prompt from a computer in Minnesota, a system unre-

lated to Caltech. Access of this type could leave the system open to unauthorized users outside the bounds of the honor system.

Mannion acknowledged these problems, but felt that they can be resolved before any incidents occur. He also supported the idea of a student-accessible key override to the electronic system.

Current plans call for the Caltech library system to be migrated to the card key system sometime next year. Material transfer forms are to be eliminated in favor of the new system. It is possible that the fingerprints taken at the housing office will be used in lieu of the cards; this looks to be in the far future.



California Institute of Technology  
Pasadena, California 91125

GARY LORDEN  
666666666

## Fingerprints taken for future use by Housing

BY ERIK STREED

Fingerprinting has come to the Caltech campus. Fortunately, the inky hands and smudged paper cards familiar to those of us who have had the misfortune to be mistaken for serial killer of the week haven't come along with it. This system is home grown, based on the work of former Caltech students Serge Belongi and Vance Bjorn. Originating as a sophomore SURF project, it has blossomed into a start-up company that includes the founder of Logitek as one of the partners. In an interview Thursday afternoon, Tom Mannion, Director of the Housing Office, stated that he envisions the keycard system currently being installed in Avery House as a stepping stone to placing the entire campus on a fingerprint based access and transaction verification system.

This system would eliminate the need for Caltech students to carry cards or keys. Mannion also stated that the Housing Office intended the system to be internal to Caltech.

*This system is ...based on the work of former Caltech students.*

The fingerprint identification system is still in the development stage. Due to the origins and promise of this new technology, Mannion would like Caltech to be a test site for the system which is developed. No plans currently exist to install fingerprint readers at any location on campus; however, the Housing Office is currently scanning in student fingerprints when they come to the Housing Annex to be issued their new student ID cards/keycards. Because of the experimental nature of the system, the Housing Office is storing the fingerprint images for future compression and encryption into unique student identification codes.

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EDITORIAL

**Fingerprinting infringes on students' civil liberties**

When you venture forth to Ye Not So Old Housing Annex to obtain a shiny new ID card, a cunningly cloaked obstacle stands in your way. A Housing Office employee will ask you to trustingly sign a release form and sit down to have a quick, painless procedure performed. Whether you know it or not, the obstacle is to get by without divulging to Housing & Co. one of your most distinct and prolific of personal traits. No, they haven't instituted genetic tracking (yet), but they have begun taking your fingerprints.

Unlike the well-meaning grade school PTA's which may have dirtied your fingers in a bizarre safety push, the Housing Office has other ideas in mind. What those ideas are we're not quite sure, and they don't seem to know, either. The

whole system appears to gain nothing for J. Random Techer interested in getting his new ID. Given the experimental state of the technology involved, the only justification appears to be a matter of convenience for the Housing Office.

Only at our beloved Housing Office could the average Techer join such exclusive company as financial planners, stockbrokers, and street criminals. Information grazing like this sets bad precedent in light of the fingerprint system's current applications. We, the Editors of The California Tech, urge you not to submit to having your fingerprints entered into the administration's computer systems.

**The Editors**

*The California Tech welcomes responses to its editorials. Please email letters to editors@tech.caltech.edu, or send them to:*

Letters to the Editor  
The California Tech  
SAC 40-58  
Caltech  
Pasadena, CA 91125

*All letters must be signed. Please include a daytime phone number, which will not be published, for verification.*

**Welcome back to Caltech, from the Dean of Students Office**

FROM THE DEANS OFFICE

The Dean of Students Office wants to welcome you back for the 1996-97 academic year. Jean-Paul Revel, Dean of Students; Barbara Green, Associate Dean; Suzette Cummings, Assistant to the Dean; and Sandra Estes, Senior Administrative Secretary, are available to assist you in a variety of ways.

We encourage you to stop by to talk with one of the Deans if you have any academic or personal concerns. Here are a few reminders that may help make first term a successful one for you:

- If you are finding the material in a course difficult, contact our office for a free

tutor. We hire upperclass students to tutor others, especially in the core courses. Tutoring is free to the student, and the Deans Office pays the tutor.

- Of course, attending class

*If you are finding the material in a course difficult, contact our office for a free tutor.*

regularly, talking with your teaching assistants and professors, attempting all your homework sets, and collaborating with other students when appropriate can make a big difference in your success.

- Students who become ill may want to be in touch with the Deans for assistance in excuses for late assignments

and tests. If you are too ill to complete a course or can't take the final exam because of illness, only the Deans can authorize the grade of I medical incomplete. Contact us if you have a medical problem that seems to be interfering with your academics.

- Remember the deadlines for dropping and adding courses. Add Day this term is October 18 and Drop Day is November 20.

See us anytime for assistance with petitions you plan to submit to UASH.

- If we invite you to come in to talk with us about your progress, please respond. We usually have useful suggestions to offer.

Best wishes for a productive and enjoyable first term!

**Dog owners leashed to new rules**

COURTESY INSTITUTE RELATIONS

A number of recent incidents and complaints involving unleashed dogs on campus has prompted the Institute to draft a new policy governing the control of dogs on campus grounds. As drafted

below, this policy would be consistent with the Pasadena Municipal Code.

The draft policy states: "In order to keep the Caltech campus open, clean and safe for students, employees and visitors from the community, the Institute requires that all dogs remain leashed and under the control of their owners/walkers while on the grounds of the campus, that all dog owners/walkers clean up all litter and/or waste left by their dogs on the campus, and that no owners/walkers permit their dogs to enter the Caltech ponds. Campus security will enforce this policy."

Campus officials will be available on the steps of Beckman Auditorium from 5:00 pm to 6:00 pm on Fri-

day, October 4th, to hear comments about the proposed policy and to answer questions about the problem. If you are unable to attend this informational discussion, you may contact Bob O'Rourke, Associate Vice President for Institute Relations (395-6225), or Hall Daily in Governmental Relations and Community Affairs (395-6256).



**25th Anniversary Season**

**SIGN-UPS**

**Sunday, Sept. 29, 1-4 p.m.**

**Monday, Sept. 30, 2-4:45 p.m.**

**Student Activities Center, Room 1**

For more information visit our web site at <http://cco.caltech.edu/~musicpgm/mhubbard/glee.html> or contact Katie Stofer, President <kstofer@ugcs>, Lila Guterman, Grad Liaison <guterman@cco>, or Director, Monica Hubbard <mhubbard@cco.caltech.edu>, X6260.

**THE CALIFORNIA TECH**

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## Free classical concerts in Dabney Hall

For almost 50 years, the Paco A. Lagerstrom Chamber Music Concerts at Dabney Lounge have offered intimate programs to chamber music lovers from Caltech and the community. These concerts feature artists of international repute as well as promising young performers.

Located in Dabney Hall, south of Beckman Auditorium on the Caltech campus in Pasadena, the lounge, with its Spanish Renaissance architecture, excellent acoustics, large expanse of hardwood floors, and magnificent French doors that open onto the garden, has made a welcoming and elegant setting for these chamber music concerts.

All concerts are held on Sundays at 3:30 p.m. Admission is free.

October 6, 1996  
MARI KODAMA, piano

Benjamin: Sortileges  
Bach: Toccata in D Major, BWV. 912  
Chopin: Sonata in B-flat minor, Op. 35  
Schubert: Sonata in A Major, D. 664, Op. 120  
Dutilleux: Choral and Variations from Sonata for Piano (1947)



Born in Osaka and trained in Paris, Mari Kodama has performed with the London Philharmonic and with Frans Bruggen. She has won prizes at the international competitions of Jeunesse Musicale de Suisse, Viotti-Valsesia, Citta de Senigallia, and F. Busoni in Bolzano. Her recordings include Prokofiev's Concertos No. 1 and 3 with the Philharmonia Orchestra, Kent Nagano conducting.

## New course offered Fall term

Fall 1996 SES/H 169: SCIENCE IN RUSSIA AND THE SOVIET UNION BEFORE WWII with Professor Alexei Kojevnikov, University of Moscow, Mondays and Wednesdays, 2:30-4:00.

Russia's way to acquiring and institutionalizing European science paralleled, but also instructively differed from that of the U.S. The course will cover topics such as the Imperial Academy of Sciences in St. Petersburg, the work of Leonhard Euler, and the emergence of the Russian tradition in mathematical sciences; the university-based science of the 19th century, disputes over Darwinism, and the works of physiologist Pavlov and chemist Mendeleev; modernist science of the 1920's, and the outburst of modern genetics and theoretical physics; the role of science in revolutionary Russia and the forms of life of science under the conditions of political dictatorship and international isolation which, on the one hand, led to the rise of Lysenkoism in biology, and, on the other hand, to surprising achievements in the physical sciences, by, for example, Kaptiza and Landau.

*"Write for the Tech or I'll shoot this cup!"*



The Tech editors aren't completely insane... yet.

**You can help.**  
Write for the Tech.

**First meeting  
12:00 Friday,  
October 4,  
in the SAC  
Coffeeshouse.**

# McKinsey & Company

MANAGEMENT CONSULTANTS

Graduating Caltech Ph.D. students and Postdocs in science and engineering are invited to attend two presentations

## Our Firm, Our People and Our Work

Thursday, October 3, 5:00 - 7:00 p.m.  
Athenaeum, Hall of Associates

## What does an associate do on a client engagement?

Monday, October 14, 5:00 - 7:00 p.m.  
Athenaeum, Hall of Associates

*Cocktails & hors d'oeuvres will be served  
Casual attire*

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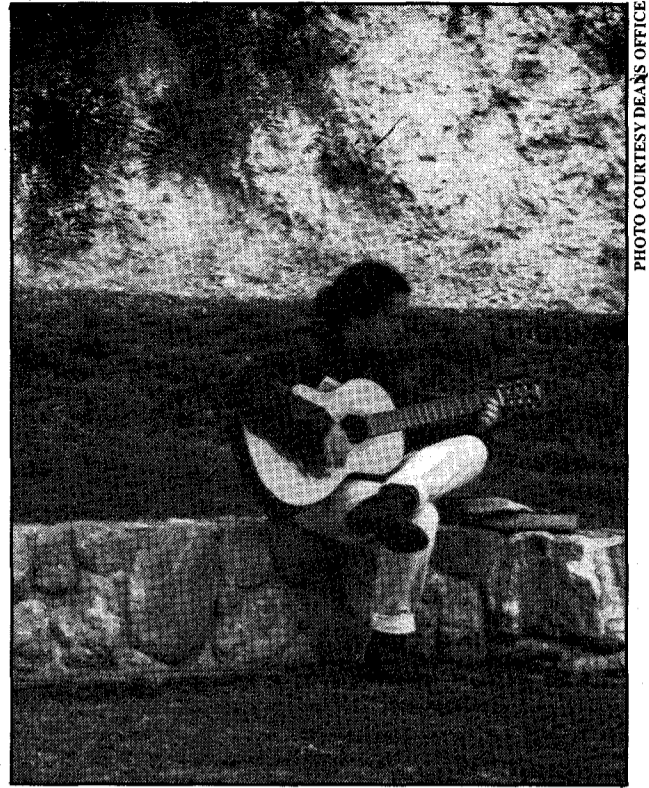


Please visit our website at <http://www.mckinsey.com>



Frosh enjoy a game of chess on the way to Catalina Island.

PHOTO COURTESY DEAN'S OFFICE



Myfanwy Callahan shares a quiet moment with a guitar at Frosh Camp.

PHOTO COURTESY DEAN'S OFFICE



"I can show you even better things to do with oxy-acetylene."

PHOTO BY SHAY CHINN



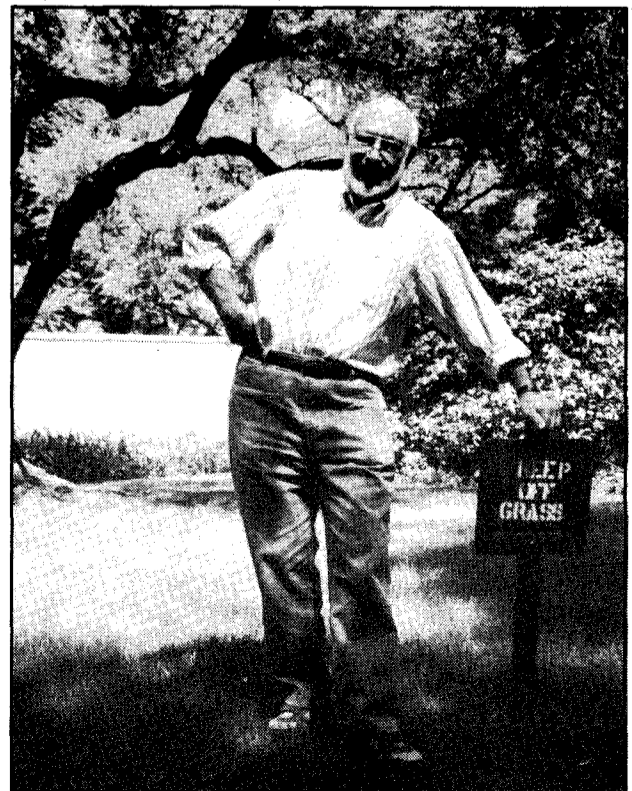
Join SPECTRE... or face the consequences.

PHOTO BY SHAY CHINN



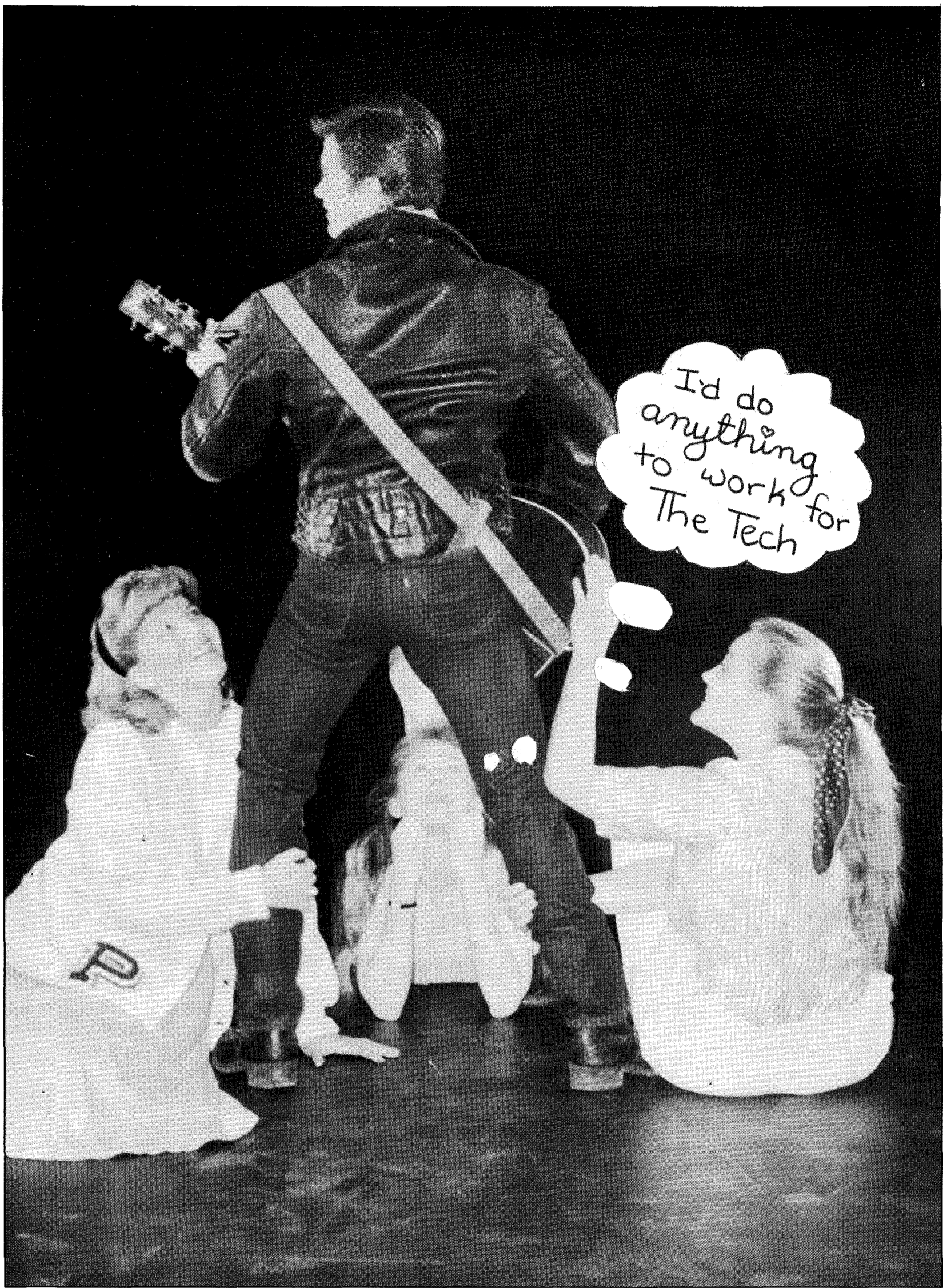
"I can feel it. You have an overwhelming desire to write for the Tech."

PHOTO BY SHAY CHINN



"Is this an Honor Code violation?"

PHOTO BY VALERIE ANDERSON



Ratio getting you down?  
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**BIG NIGHT**

Daily 4:25, 7:00, 9:30 p.m.  
Sat-Sun Bargain Matinee 1:50 p.m.

# 1996 Rotation Schedule

## Reading Your Schedule

## Dinner Times

- The house you will eat lunch in and the house you will eat dinner in are separated by a colon.
- On Sunday, only dinner is served.
- On Saturday, only lunch is served.
- Your Saturday lunch should be in the house you are rotating out of.

### Key to House Names

BL Blacker	PA Page
DA Dabney	RI Ricketts
FL Fleming	RU Ruddock
	LL Lloyd

Blacker	6:05	Page	6:45
Dabney	6:15	Ricketts	6:20
Fleming	6:30	Ruddock	6:30
	Lloyd	6:00	

Any new student who does not attend lunch or dinner or check with the House Rotation Chair will be defined as a no-show in that House and will be considered to have ranked all seven Houses equally. Please show up 15 minutes to half an hour early. Friday meals begin half an hour earlier than other meals. Lunches are usually 6 hours and 15 minutes before dinners.

NAME	SUN	MON	TUE	WED	THU	FRI	SAT	NAME	SUN	MON	TUE	WED	THU	FRI	SAT
Daniel Abrams	:PA	RU:RI	LL:DA	DA:BL	RI:LL	BL:RU	FL:	Elyzabeth Fox	:PA	RU:FL	LL:BL	BL:DA	FL:LL	DA:RU	RI:
Jonathan Adams	:LL	RI:PA	DA:FL	FL:RU	PA:DA	RU:RI	BL:	Kevin Franklin	:RU	BL:DA	RI:LL	LL:PA	DA:RI	PA:BL	FL:
Joshua Adams	:FL	BL:PA	RU:LL	LL:RI	PA:RU	RI:BL	DA:	Peter Frazier	:PA	RU:RI	LL:DA	DA:BL	RI:LL	BL:RU	FL:
Viktor Alekseyev	:DA	RI:PA	LL:BL	BL:RU	PA:LL	RU:RI	FL:	Gregory Fricke	:DA	PA:LL	BL:RU	RU:RI	LL:BL	RI:PA	FL:
Gabriel Au	:DA	RU:RI	PA:FL	FL:LL	RI:PA	LL:RU	BL:	Carrie Garner	:DA	RU:RI	PA:FL	FL:LL	RI:PA	LL:RU	BL:
Onureena Banerjee	:PA	RU:FL	LL:BL	BL:DA	FL:LL	DA:RU	RI:	Nicholas Gerovac	:RU	DA:BL	RI:LL	LL:FL	BL:RI	FL:DA	PA:
Xiaoyan Bao	:FL	DA:RU	PA:RI	RI:BL	RU:PA	BL:DA	LL:	Dipasri Ghosh	:LL	RI:PA	DA:FL	FL:RU	PA:DA	RU:RI	BL:
Amy Barr	:RI	LL:PA	FL:RU	RU:BL	PA:FL	BL:LL	DA:	Catelyn Gifford	:FL	BL:PA	RU:LL	LL:RI	PA:RU	RI:BL	DA:
Amritaksha Basu	:FL	DA:RU	PA:RI	RI:BL	RU:PA	BL:DA	LL:	Rachel Gray	:PA	RU:RI	LL:DA	DA:BL	RI:LL	BL:RU	FL:
Hilla Bercoviz	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:	Yuanshan Guo	:FL	RU:BL	DA:RI	RI:LL	BL:DA	LL:RU	PA:
Tarn Bereskin	:PA	LL:DA	FL:BL	BL:RI	DA:FL	RI:LL	RU:	Marc Gustafson	:BL	FL:DA	RU:PA	PA:RI	DA:RU	RI:FL	LL:
Christopher Berger	:DA	RU:FL	BL:PA	PA:LL	FL:BL	LL:RU	RI:	Joseph Haas	:BL	RI:LL	FL:PA	PA:DA	LL:FL	DA:RI	RU:
Vidya Bhalodia	:RI	PA:FL	RU:DA	DA:LL	FL:RU	LL:PA	BL:	Eric Hale	:RU	BL:DA	RI:LL	LL:PA	DA:RI	PA:BL	FL:
Umesh Bhandary	:RU	BL:DA	RI:LL	LL:PA	DA:RI	PA:BL	FL:	Mark Hammond	:DA	RU:FL	BL:PA	PA:LL	FL:BL	LL:RU	RI:
Jody Biggs	:FL	RU:BL	DA:RI	RI:LL	BL:DA	LL:RU	PA:	Angela Han	:PA	LL:DA	FL:BL	BL:RI	DA:FL	RI:LL	RU:
Amanda Blasius	:RU	RI:DA	PA:LL	LL:BL	DA:PA	BL:RI	FL:	Anne Hanna	:RU	RI:DA	PA:LL	LL:BL	DA:PA	BL:RI	FL:
Kevin Bradley	:RI	FL:LL	BL:PA	PA:RU	LL:BL	RU:FL	DA:	Kimberly Harle	:DA	RI:RU	BL:FL	FL:PA	RU:BL	PA:RI	LL:
Benjamin Brantley	:FL	DA:LL	BL:RI	RI:PA	LL:BL	PA:DA	RU:	John Hatfield	:RI	PA:FL	RU:DA	DA:LL	FL:RU	LL:PA	BL:
Nicholas Breen	:FL	DA:RU	PA:RI	RI:BL	RU:PA	BL:DA	LL:	John Henderson Jr	:FL	RU:BL	DA:RI	RI:LL	BL:DA	LL:RU	PA:
James Bresson	:RI	LL:RU	DA:PA	PA:FL	RU:DA	FL:LL	BL:	Clifford Hicks	:RI	LL:PA	FL:RU	RU:BL	PA:FL	BL:LL	DA:
Christopher Brooks	:RI	LL:PA	FL:RU	RU:BL	PA:FL	BL:LL	DA:	William Hiestand	:PA	RU:RI	LL:DA	DA:BL	RI:LL	BL:RU	FL:
Christopher Brown	:RU	BL:DA	RI:LL	LL:PA	DA:RI	PA:BL	FL:	Patrick Higgins	:DA	RI:RU	BL:FL	FL:PA	RU:BL	PA:RI	LL:
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Damian Burch	:RU	DA:BL	RI:LL	LL:FL	BL:RI	FL:DA	PA:	Russel Howe	:FL	DA:LL	BL:RI	RI:PA	LL:BL	PA:DA	RU:
Corey Burke	:RI	PA:FL	RU:DA	DA:LL	FL:RU	LL:PA	BL:	Albert Hsiao	:LL	RI:PA	DA:FL	FL:RU	PA:DA	RU:RI	BL:
John Burke	:RI	LL:PA	FL:RU	RU:BL	PA:FL	BL:LL	DA:	Ju-Shan Sue Hsieh	:BL	LL:DA	PA:FL	FL:RU	DA:PA	RU:LL	RI:
Jessika Canizalez	:DA	RU:RI	PA:FL	FL:LL	RI:PA	LL:RU	BL:	Nathanael Hsu	:PA	RU:RI	LL:DA	DA:BL	RI:LL	BL:RU	FL:
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Steven Cashion	:FL	RU:BL	DA:RI	RI:LL	BL:DA	LL:RU	PA:	Litun Hung	:RU	PA:BL	FL:DA	DA:LL	BL:FL	LL:PA	RI:
Andrew Casteel	:RU	DA:BL	RI:LL	LL:FL	BL:RI	FL:DA	PA:	Adrienne Hyldahl	:BL	LL:DA	PA:FL	FL:RU	DA:PA	RU:LL	RI:
Richard Castro	:BL	DA:RI	LL:RU	RU:FL	RI:LL	FL:DA	PA:	Myra Interiano	:RI	LL:PA	FL:RU	RU:BL	PA:FL	BL:LL	DA:
Candace Chang	:DA	PA:LL	BL:RU	RU:RI	LL:BL	RI:PA	FL:	Anna Iwaniec	:LL	BL:PA	RI:FL	FL:RU	PA:RI	RU:BL	DA:
Christopher Chang	:BL	DA:RI	LL:RU	RU:FL	RI:LL	FL:DA	PA:	Eike Jens	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:
James Chang	:FL	DA:LL	PA:BL	BL:RI	LL:PA	RI:DA	RU:	Manuel Jimenez Jr	:DA	PA:LL	BL:RU	RU:RI	LL:BL	RI:PA	FL:
Petru-Nicolae Chebeleu	:LL	BL:PA	RI:FL	FL:RU	PA:RI	RU:BL	DA:	Lei Jin	:BL	RI:LL	FL:PA	PA:DA	LL:FL	DA:RI	RU:
Ming Chen	:BL	DA:RI	LL:RU	RU:FL	RI:LL	FL:DA	PA:	Nathan Jones	:DA	RI:PA	LL:BL	BL:RU	PA:LL	RU:RI	FL:
Andrew Childs	:PA	BL:RI	DA:RU	RU:FL	RI:DA	FL:BL	LL:	Moo Kwang Joung	:RU	FL:BL	RI:DA	DA:PA	BL:RI	PA:FL	LL:
Daniel Chou	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:	Natsuko Kagawa	:LL	PA:BL	RU:RI	RI:FL	BL:RU	FL:PA	DA:
George Chung	:DA	RU:FL	BL:PA	PA:LL	FL:BL	LL:RU	RI:	Kanwarpal Kahlon	:FL	DA:RU	PA:RI	RI:BL	RU:PA	BL:DA	LL:
Samuel Chung	:FL	DA:LL	BL:RI	RI:PA	LL:BL	PA:DA	RU:	Tatsuki Kashitani	:PA	FL:RI	BL:RU	RU:DA	RI:FL	DA:LL	BL:
Steve Chung	:PA	LL:RI	FL:RU	RU:DA	RI:FL	DA:LL	BL:	Stefan Kazachki	:LL	BL:FL	RU:RI	RI:DA	FL:RU	DA:BL	PA:
Louis Cisnero Jr	:PA	LL:DA	FL:BL	BL:RI	DA:FL	RI:LL	RU:	Elizabeth Kelley	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:
Walter Collins II	:LL	BL:FL	RU:RI	RI:DA	FL:RU	DA:BL	PA:	Anne Kelly	:PA	LL:DA	FL:BL	BL:RI	DA:FL	RI:LL	RU:
Garth Conrad	:FL	BL:PA	RU:LL	LL:RI	PA:RU	RI:BL	DA:	Matthew Kennedy	:BL	LL:DA	PA:FL	FL:RU	DA:PA	RU:LL	RI:
Andrew Cotter	:DA	RI:PA	LL:BL	BL:RU	PA:LL	RU:RI	FL:	Zee Yen Khoo	:DA	RU:FL	BL:PA	PA:LL	FL:BL	LL:RU	RI:
Michael Cox	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:	Hanna Kim	:LL	RI:PA	DA:FL	FL:RU	PA:DA	RU:RI	BL:
Jennifer Cummings	:RI	PA:FL	LL:BL	BL:DA	FL:LL	DA:PA	RU:	Jessie Kim	:RU	BL:DA	RI:LL	LL:PA	DA:RI	PA:BL	FL:
Sandip Darji	:LL	BL:FL	RU:RI	RI:DA	FL:RU	DA:BL	PA:	Brent Kious	:FL	DA:LL	PA:BL	BL:RI	LL:PA	RI:DA	RU:
Gregory Detweiler	:BL	DA:RI	LL:RU	RU:FL	RI:LL	FL:DA	PA:	Juna Kollmeier	:DA	RU:FL	BL:PA	PA:LL	FL:BL	LL:RU	RI:
Sheng Ding	:RU	PA:BL	FL:DA	DA:LL	BL:FL	LL:PA	RI:	Katherine Kovac	:DA	RU:RI	PA:FL	FL:LL	RI:PA	LL:RU	BL:
Ronald Dollete	:RU	DA:BL	RI:LL	LL:FL	BL:RI	FL:DA	PA:	Amit Kshatriya	:DA	RI:PA	LL:BL	BL:RU	PA:LL	RU:RI	FL:
Armando Durazo Jr	:FL	DA:LL	PA:BL	BL:RI	LL:PA	RI:DA	RU:	Michael Kuhlen	:LL	BL:FL	RU:RI	RI:DA	FL:RU	DA:BL	PA:
Kjerstin Easton	:DA	RU:RI	PA:FL	FL:LL	RI:PA	LL:RU	BL:	Max Kullberg	:PA	LL:DA	FL:BL	BL:RI	DA:FL	RI:LL	RU:
Robert Enright	:DA	RI:PA	LL:BL	BL:RU	PA:LL	RU:RI	FL:	Abraham Kuo	:FL	DA:RU	PA:RI	RI:BL	RU:PA	BL:DA	LL:
Rui Fan	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:	Christopher Kurtz	:RI	PA:FL	RU:DA	DA:LL	FL:RU	LL:PA	BL:
Marc Favata	:DA	RU:FL	BL:PA	PA:LL	FL:BL	LL:RU	RI:	Jacob Lacouture	:LL	PA:BL	RU:RI	RI:FL	BL:RU	FL:PA	DA:
Jonathan Fisher	:RI	PA:FL	RU:DA	DA:LL	FL:RU	LL:PA	BL:	Christopher Leapley	:RU	BL:DA	RI:LL	LL:PA	DA:RI	PA:BL	FL:
Michael Fitzgerald	:PA	LL:DA	FL:BL	BL:RI	DA:FL	RI:LL	RU:	Ja-Chen Lee	:PA	LL:RI	FL:RU	RU:DA	RI:FL	DA:LL	BL:
Charless Fowlkes	:LL	BL:PA	RI:FL	FL:RU	PA:RI	RU:BL	DA:	Jui-Ting Patty Lee	:RU	BL:DA	RI:LL	LL:PA	DA:RI	PA:BL	FL:

# Rotation Rules

### I. Preamble

The rotation system has evolved over the years as the best method to distribute new students among the Houses. Each new student is given a voice in selecting the House he or she will join and the Houses have some say in choosing their members. The motivation behind these rules is the Honor System. The intention is to prevent both the Houses and the new students from taking unfair advantage of any other House or new student. All undergraduates are responsible for understanding and following these rules, and just as with the Honor Code, ignorance is not an acceptable excuse for violating them.

[Section II omitted. See your little t. -eds.]

### III. Regulations

- 1.) Rotation rules are in effect for any contact with new students from their initial acceptance to Caltech (including before they matriculate) until their submitted ranking lists are considered accurate (as stipulated at 7:00 P.M. on Saturday of Rotation week).
- 2.) Throughout these rules, the term "House" refers to both the organization as a whole and any of its members.
- 3.) New students are specifically prohibited from unfairly biasing other new students toward or against a House.
- 4.) Houses are specifically authorized to

- do the following during rotation:
- a. have receptions after dinner
  - b. serve refreshments at these receptions
  - c. prohibit those who are not current House members from attending these receptions
  - d. have open presentations anywhere on campus
  - e. publish and distribute informational literature which is inexpensively reproduced
  - f. accompany new students to any place open to the public, if no extraordinary services are provided
  - 5.) Houses are specifically prohibited from doing the following during rotation:
    - a. making a trophy or alley challenge
    - b. publishing a social calendar or relating in any fashion future social events
    - c. organizing and sponsoring a social event
    - d. attending a reception of a House of which you are not a member without the permission of that House's president
    - e. discussing with new students anything at all to do with picking strategies, future new student picks, or past new student picks

- f. spending money on a new student or providing extraordinary goods or services on credit or for no charge
  - g. providing alcohol or other controlled substances to a new student
  - h. getting a new student a date (Note: dating a new student is not a violation, but setting a new student up with another person is a violation.)
  - i. otherwise unfairly biasing a new student toward or against a House.
- (Note: there is no "gag rule." Individuals are not prohibited from speaking about a House of which they are not a member. However, individuals are advised to take care in what they say, as they may be misinformed.)
- 6.) Aside from the specifically authorized activities, Houses may do anything approved by the IHC in advance of the act.
  - 7.) Information pertaining to the ranking of each student and to the order of the picks may not be made public. All such information in written or electronic form must be destroyed immediately following picks.

### IV. Penalties

- 1.) An action which any student thinks is a violation of the Rotation rules must be reported to the Director of Residence Life, the IHC Chairman, an IHC-appointed Rotation Supervisor, or to any of the House Presidents.
- 2.) Alleged violations will be tried by the IHC; a four out of seven vote is sufficient for conviction.
- 3.) Any House or individual who is found to have violated these rules will be penalized by any one of the following:
  - a. loss of draft choices
  - b. loss of privilege to live on campus.
  - c. probation
  - e. loss of right to House ranking (i.e., new student will be considered to have chosen all seven Houses equally)
  - f. any other punishment handed down by the IHC
- 4.) Due to time constraints, no House will lose draft choices after 12:01 A.M. of the day of picks. Other penalties may still apply.

NAME	SUN	MON	TUE	WED	THU	FRI	SAT	NAME	SUN	MON	TUE	WED	THU	FRI	SAT
Renee Lee	:RI	PA:FL	LL:BL	BL:DA	FL:LL	DA:PA	RU:	Daniel Rogstad	:BL	FL:DA	RU:PA	PA:RI	DA:RU	RI:FL	LL:
Sueanne Lee	:RU	FL:BL	RI:DA	DA:PA	BL:RI	PA:FL	LL:	Alan Rosenwinkel	:BL	FL:DA	RU:PA	PA:RI	DA:RU	RI:FL	LL:
Troy Lee	:BL	DA:RI	LL:RU	RU:FL	RI:LL	FL:DA	PA:	Raphael Rubin	:FL	DA:RU	PA:RI	RI:BL	RU:PA	BL:DA	LL:
Wei-Chung Allen Lee	:PA	BL:RI	DA:RU	RU:FL	RI:DA	FL:BL	LL:	Olga-Nitaina Russi-Roman	:RI	FL:LL	BL:PA	PA:RU	LL:BL	RU:FL	DA:
Boon Tiong Leok	:RI	PA:FL	LL:BL	BL:DA	FL:LL	DA:PA	RU:	Baldeep Sadhal	:DA	RI:PA	LL:BL	BL:RU	PA:LL	RU:RI	FL:
Daniel Levy	:BL	FL:DA	RU:PA	PA:RI	DA:RU	RI:FL	LL:	Ashley Saint-Fleur	:RU	DA:BL	RI:LL	LL:FL	BL:RI	FL:DA	PA:
Huimou Li	:LL	BL:FL	RU:RI	RI:DA	FL:RU	DA:BL	PA:	Robert Saliba	:BL	DA:RI	LL:RU	RU:FL	RI:LL	FL:DA	PA:
Megan Linnehan	:DA	PA:LL	BL:RU	RU:RI	LL:BL	RI:PA	FL:	Rory Sayres	:BL	RI:LL	FL:PA	PA:DA	LL:FL	DA:RI	RU:
Nadia Liu	:FL	DA:LL	BL:RI	RI:PA	LL:BL	PA:DA	RU:	Amanda Schaffer	:LL	BL:FL	RU:RI	RI:DA	FL:RU	DA:BL	PA:
Xin Liu	:RI	PA:FL	LL:BL	BL:DA	FL:LL	DA:PA	RU:	Nathan Schara	:PA	BL:RI	DA:RU	RU:FL	RI:DA	FL:BL	LL:
Yi-Ping Liu	:PA	RU:FL	LL:BL	BL:DA	FL:LL	DA:RU	RI:	Selwyn Scharnhorst	:BL	FL:DA	RU:PA	PA:RI	DA:RU	RI:FL	LL:
Corydon Loomis III	:LL	BL:FL	RU:RI	RI:DA	FL:RU	DA:BL	PA:	Erich Schmidt	:BL	FL:RU	DA:LL	LL:PA	RU:DA	PA:FL	RI:
Nicklaus Lorenzen	:BL	RI:LL	FL:PA	PA:DA	LL:FL	DA:RI	RU:	Kevin Schulz	:DA	RU:FL	BL:PA	PA:LL	FL:BL	LL:RU	RI:
Joseph Lucas	:BL	LL:DA	PA:FL	FL:RU	DA:PA	RU:LL	RI:	Adrian Seymour	:BL	RI:LL	FL:PA	PA:DA	LL:FL	DA:RI	RU:
Dominic Lucchetti	:RU	RI:DA	PA:LL	LL:BL	DA:PA	BL:RI	FL:	Ian Shapiro	:RI	PA:FL	RU:DA	DA:LL	FL:RU	LL:PA	BL:
Peter Maresh	:RI	PA:FL	LL:BL	BL:DA	FL:LL	DA:PA	RU:	William Sharp	:RI	LL:PA	FL:RU	RU:BL	PA:FL	BL:LL	DA:
Jaime Martinez	:FL	BL:PA	RU:LL	LL:RI	PA:RU	RI:BL	DA:	Alexander Sheive	:RU	FL:BL	RI:DA	DA:PA	BL:RI	PA:FL	LL:
Sara Mastros	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:	Kacie Shelton	:LL	PA:BL	RU:RI	RI:FL	BL:RU	FL:PA	DA:
Vivek Mathrani	:FL	DA:LL	PA:BL	BL:RI	LL:PA	RI:DA	RU:	Stephen Shepherd	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:
Kevin McCarty	:RI	PA:FL	RU:DA	DA:LL	FL:RU	LL:PA	BL:	Angela Shum	:BL	FL:RU	DA:LL	LL:PA	RU:DA	PA:FL	RI:
Jason McIlhaney	:FL	DA:LL	PA:BL	BL:RI	LL:PA	RI:DA	RU:	Gabor Siklos	:RI	PA:FL	LL:BL	BL:DA	FL:LL	DA:PA	RU:
Alice Medvedeva	:FL	DA:LL	BL:RI	RI:PA	LL:BL	PA:DA	RU:	Claudiu Simion	:BL	FL:RU	DA:LL	LL:PA	RU:DA	PA:FL	RI:
Pankaj Mehta	:RI	LL:PA	FL:RU	RU:BL	PA:FL	BL:LL	DA:	Jaideep Singh	:DA	PA:LL	BL:RU	RU:RI	LL:BL	RI:PA	FL:
Aron Meltzner	:RU	RI:DA	PA:LL	LL:BL	DA:PA	BL:RI	FL:	Aleksandrs Slivkins	:PA	LL:DA	FL:BL	BL:RI	DA:FL	RI:LL	RU:
Alberto Mendez	:LL	BL:FL	RU:RI	RI:DA	FL:RU	DA:BL	PA:	Anna Smirnova	:FL	DA:LL	PA:BL	BL:RI	LL:PA	RI:DA	RU:
Arjun Mendiratta	:FL	DA:LL	PA:BL	BL:RI	LL:PA	RI:DA	RU:	Jeremiah Smith	:BL	FL:RU	DA:LL	LL:PA	RU:DA	PA:FL	RI:
Sarah Milkovich	:RU	RI:DA	PA:LL	LL:BL	DA:PA	BL:RI	FL:	Kayla Smith	:BL	DA:RI	LL:RU	RU:FL	RI:LL	FL:DA	PA:
Christopher Miller	:FL	DA:LL	PA:BL	BL:RI	LL:PA	RI:DA	RU:	Lilach Somberg	:BL	FL:DA	RU:PA	PA:RI	DA:RU	RI:FL	LL:
Syjetlana Miocinovic	:BL	FL:DA	RU:PA	PA:RI	DA:RU	RI:FL	LL:	Daniel Song	:FL	DA:LL	PA:BL	BL:RI	LL:PA	RI:DA	RU:
Liviu Mirica	:FL	DA:LL	BL:RI	RI:PA	LL:BL	PA:DA	RU:	Kartik Srinivasan	:RI	LL:RU	DA:PA	PA:FL	RU:DA	FL:LL	BL:
Yoko Misawa	:DA	RU:RI	PA:FL	FL:LL	RI:PA	LL:RU	BL:	Neil Stevens	:LL	PA:BL	RU:RI	RI:FL	BL:RU	FL:PA	DA:
Wren Montgomery	:PA	RU:RI	LL:DA	DA:BL	RI:LL	BL:RU	FL:	Joshua Strahan	:FL	DA:RU	PA:RI	RI:BL	RU:PA	BL:DA	LL:
Steven Mueller	:DA	PA:LL	BL:RU	RU:RI	LL:BL	RI:PA	FL:	Eric Strom	:DA	RI:PA	LL:BL	BL:RU	PA:LL	RU:RI	FL:
Dan Muresan	:PA	RU:FL	LL:BL	BL:DA	FL:LL	DA:RU	RI:	Matthew Sullivan	:DA	RI:RU	BL:FL	FL:PA	RU:BL	PA:RI	LL:
Kudah Mushambi	:RU	FL:BL	RI:DA	DA:PA	BL:RI	PA:FL	LL:	Erika Swanson	:DA	RU:RI	PA:FL	FL:LL	RI:PA	LL:RU	BL:
Matthew Musick	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:	Ian Swett	:FL	RU:BL	DA:RI	RI:LL	BL:DA	LL:RU	PA:
Kwong Man Ng	:DA	RU:FL	BL:PA	PA:LL	FL:BL	LL:RU	RI:	Barney Switzer	:FL	RU:BL	DA:RI	RI:LL	BL:DA	LL:RU	PA:
Martin Nguyen	:RI	PA:FL	LL:BL	BL:DA	FL:LL	DA:PA	RU:	Xiaoyi Tang	:BL	DA:RI	LL:RU	RU:FL	RI:LL	FL:DA	PA:
Kristine Nielson	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:	Nelson Tavares	:BL	FL:RU	DA:LL	LL:PA	RU:DA	PA:FL	RI:
Nik-Haliza Nik-Hassan	:RU	FL:BL	RI:DA	DA:PA	BL:RI	PA:FL	LL:	John Teifel	:PA	LL:DA	FL:BL	BL:RI	DA:FL	RI:LL	RU:
Katherine Noyes	:RI	FL:LL	BL:PA	PA:RU	LL:BL	RU:FL	DA:	Michelle Thompson	:BL	RI:LL	FL:PA	PA:DA	LL:FL	DA:RI	RU:
Satoshi Ohtake	:RI	LL:RU	DA:PA	PA:FL	RU:DA	FL:LL	BL:	Hai-xin Tie	:RI	PA:FL	RU:DA	DA:LL	FL:RU	LL:PA	BL:
Kathryn Oseen-Senda	:BL	LL:DA	PA:FL	FL:RU	DA:PA	RU:LL	RI:	Mark Tilford	:LL	RI:PA	DA:FL	FL:RU	PA:DA	RU:RI	BL:
Melissa Parish	:BL	FL:DA	RU:PA	PA:RI	DA:RU	RI:FL	LL:	Ricky Tong	:FL	BL:PA	RU:LL	LL:RI	PA:RU	RI:BL	DA:
Eleanor Park	:RU	RI:DA	PA:LL	LL:BL	DA:PA	BL:RI	FL:	Jason Turner	:RI	PA:FL	LL:BL	BL:DA	FL:LL	DA:PA	RU:
Dale Parkes	:LL	PA:BL	RU:RI	RI:FL	BL:RU	FL:PA	DA:	Paul Updike	:BL	RI:LL	FL:PA	PA:DA	LL:FL	DA:RI	RU:
Ryan Patterson	:RU	RI:DA	PA:LL	LL:BL	DA:PA	BL:RI	FL:	Kamran Vakili	:DA	PA:LL	BL:RU	RU:RI	LL:BL	RI:PA	FL:
Brian Patton	:DA	RI:RU	BL:FL	FL:PA	RU:BL	PA:RI	LL:	Phuong Vu	:RU	FL:BL	RI:DA	DA:PA	BL:RI	PA:FL	LL:
Matthew Paul	:RU	DA:BL	RI:LL	LL:FL	BL:RI	FL:DA	PA:	Matthew Wilhelm	:RU	FL:BL	RI:DA	DA:PA	BL:RI	PA:FL	LL:
Hannah Peck	:DA	RI:RU	BL:FL	FL:PA	RU:BL	PA:RI	LL:	Nicholas Wisniewski	:PA	RU:FL	LL:BL	BL:DA	FL:LL	DA:RU	RI:
James Pelayo	:PA	RU:FL	LL:BL	BL:DA	FL:LL	DA:RU	RI:	Agnieszka Wojciechowska	:RI	PA:FL	LL:BL	BL:DA	FL:LL	DA:PA	RU:
Rudy Perea Jr	:RI	PA:FL	LL:BL	BL:DA	FL:LL	DA:PA	RU:	Steven Wolf	:LL	FL:RU	RI:DA	DA:BL	RU:RI	BL:FL	PA:
Keith Peters	:BL	LL:DA	PA:FL	FL:RU	DA:PA	RU:LL	RI:	Jim Wong	:FL	DA:LL	PA:BL	BL:RI	LL:PA	RI:DA	RU:
Peter Plavchan	:FL	DA:LL	BL:RI	RI:PA	LL:BL	PA:DA	RU:	Sophia Xiang	:LL	BL:FL	RU:RI	RI:DA	FL:RU	DA:BL	PA:
Eugene Plotkin	:FL	BL:PA	RU:LL	LL:RI	PA:RU	RI:BL	DA:	Jennifer Yang	:FL	BL:PA	RU:LL	LL:RI	PA:RU	RI:BL	DA:
Keoni Puaa	:RU	DA:BL	RI:LL	LL:FL	BL:RI	FL:DA	PA:	Yifan Yang	:RI	PA:FL	RU:DA	DA:LL	FL:RU	LL:PA	BL:
Maura Raburn	:BL	RI:LL	FL:PA	PA:DA	LL:FL	DA:RI	RU:	Yu Yu	:BL	RI:LL	FL:PA	PA:DA	LL:FL	DA:RI	RU:
Karen Rantamaki	:PA	RU:FL	LL:BL	BL:DA	FL:LL	DA:RU	RI:	Hanhui Yuan	:FL	RU:BL	DA:RI	RI:LL	BL:DA	LL:RU	PA:
Jingxiang Rao	:RU	RI:DA	PA:LL	LL:BL	DA:PA	BL:RI	FL:								
Timothy Reed	:RU	PA:BL	FL:DA	DA:LL	BL:FL	LL:PA	RI:								
Kevin Richberg	:PA	LL:RI	FL:RU	RU:DA	RI:FL	DA:LL	BL:								
Lori Robison	:PA	LL:DA	FL:BL	BL:RI	DA:FL	RI:LL	RU:								

Please contact Dave Bacon (270 S. Holliston, dabacon@cco) or Jonathan Little (Lloyd 206, x1563, jlittle@cco) if there are any problems with or errors in the rotation schedule.

# ? of the Month

by Media Relations

Question:

**Why is there so much gravel in the San Gabriel Valley, especially around Irwindale?**

Answered by: Lee Silver, W. M. Keck Foundation Professor for Resource Geology

The San Gabriel Valley contains huge amounts of gravel because the San Gabriel River carries broken rock out of the nearby San Gabriel Mountains. The San Gabriels produce especially large amounts of gravel for several reasons.

For one thing, they are very steep. The San Gabriel River leaves the mountains at the Santa Fe Dam, where the elevation is roughly 1,000 feet. Within just a few miles of this spot the river reaches mountains in the 7,000- to 10,000-foot range. This steepness, or "gradient" as geologists call it, affects how much mud, gravel, and rock a river is able to carry. The higher the gradient (the steeper the slope), the more material a river can transport.

The reason the gravel accumulates mainly in Irwindale is that the gradient decreases suddenly—that is, the river flattens out—right there. The river can carry lots of debris as long as its course is steep, but as soon as the river leaves the mountains and its channel levels out, most of the debris settles out. Rock and gravel have been accumulating in the San Gabriel Valley for hundreds of thousands of years and is probably thousands of feet deep in the Irwindale area.

Another factor that helps the San Gabriels produce more gravel than most other mountains is the ongoing earth movement we have in Southern California, which we sometimes feel as earthquakes. When the earth moves in a large earthquake, the mountains often grow a few inches, and sometimes gain several feet. So even though erosion is constantly wearing down mountains everywhere, the San Gabriels are better able to maintain their height, steepness, and ability to produce lots of gravel.

Also, because Southern California sits astride a boundary between tectonic plates, the rock in the San Gabriels tends to be highly fractured. This makes it treacherous for climbing, and means that it breaks into chunks more easily than solid, unfractured rock.

Because of their height, the mountains can create their own weather, and actually draw moisture out of passing clouds. The high elevations get many times more rainfall than the flatlands just a few miles away. This heavy rainfall collects in the steep streams and rivers and forcibly sweeps the gravel out into the valley.

The location of the many gravel quarries in Irwindale is a historical accident. Homeowners didn't want to live on the San Gabriel River floodplain because of the risk of flooding. So the gravel companies moved in instead, established mineral rights to the land, and started mining gravel. The gravel is used as an aggregate material in concrete, and is one of the Los Angeles region's most valuable mineral products.

Besides gravel, the San Gabriel River also carries a lot of water out of the mountains. Much of the water is left to stand in settling basins, which can be seen to the west of the 605 Freeway. They may look like flooded gravel quarries, but actually the water is left there on purpose, so that it can soak into the ground and replenish the underground water table.

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# Calendar

by Terry Moran

First off, I offer an apology for the tardiness of both the last Tech, and the corresponding near uselessness of the last Calendar. I'm sure there was something useful still at this date, but at least half of it happened already. Anyhow, I do assure I wrote calendar a week ago today.

So today marks for most of us the passing of Summer in the one most important way: the last summer paycheck. Gone soon enough will be forty hour weeks, and forty hour week pay checks (and soon you'll be working twice as hard for no pay!!). With this in mind, here are some things you can do while it's still summer:

## Movies

**2001** is currently playing at the State Theater (a really cool revival theater) across from Target on Colorado Boulevard. H.A.L. has offered to perform his next showing on the Avery Keycard Security System (yes, you can still breathe, Tom).

## Theater

**How to Succeed in Business Without Really Trying** will only be showing at the Patnages through this Sunday, and has won much critical acclaim by reviewers throughout the Southland. This show probably still has tickets available for this weekend, and should be great.

**Quidam**, the current running cirque du soleil, will be at the Santa Monica Pier until November 24th. Over 49,000 tickets are now available starting the 29th of September. Although the tickets are quite expensive for this show, I have heard that it is really a once in the lifetime experience as circuses go and worth the price for many.

## Concerts

Hey! The **Butthole Surfers** ("Pepper") are performing a free instore concert on Tuesday, October 1st at 5pm at Rhino Records, Claremont. They'll also be playing the Glasshouse in Pomona later the same day. **Porno for Pyros** will be performing one of the few worthwhile Halloween shows with **Fun Lovin' Criminals** and **DJ Jason Bentley** the 30th and 31st at the Mayan. Tickets go on sale at 10am on Saturday. **Rage Against the Machine** has added a fourth show, which went on sale yesterday at 5pm, with **Girls Against Boys** and **Stanford Prison Experiment** at the Palladium on Wednesday, October 2nd. **Social D** is playing the Palladium as well on November 14th with **Dgeneration** and **22 Jacks**; tickets go on sale Saturday at 10am. Also on: **Ugly Kid Joe** with **Supersuckers**, **Motorhead**, and **W.A.S.P.** at the Palace on Friday, October 4th, and the **Verve Pipe** with **Super 8** at the Billboard Live on the 5th of October. In fact, the 3rd through the 5th is the F MusicFest, which means over one hundred and eighty smaller local bands playing at 18 clubs. So if you are up to a lot of music, get a L.A. Weekly to find the places and times of these shows. **Midnight Oil** will be playing at the House of Blues on October 7th at 7:30pm as well. Otherwise, last week's Tech (i.e., yesterday's Tech) has a more complete show index of what's coming through that is worthwhile.

## News

The E-bar has closed, and it looks like it's for good. Come to the Coffeehouse instead (No, it's not free advertising. Really!).

**Rhino Records**, Westwood, supposedly is having a real good parking lot sale—the second this summer—on Saturday and Sunday. No CD will be priced in this sale for over \$8.99.

The **Dragonfly Club** is closing for a month "due to political railroading by various local and state government agencies" to open again on the 26th of October. They'll be using the time to make some needed renovations.

Go out and register to vote! Voting can be exciting, like **Proposition 215 for Medical Marijuana**. This is the last weekend to register and qualify to vote in the November election. Voter registration forms are available at all post offices (including the Keith Spalding Post Office), or you'll likely find someone who'll register you in front of Ralph's or any other local supermarket.



by Scott Adams



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## Local Radio Stations

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## Local Radio Stations



## FM stations

**88.1 FM KLON** Jazz.  
**88.7 FM KSPC** An eclectic station from the Claremont colleges.  
**89.3 FM KPCC** PCC's radio station. Some jazz, talk radio, and popular music.  
**89.9 FM KCRW** KCRW is a public radio station, broadcasting news, drama, and eclectic music.  
**90.7 FM KPFC** "Pacifica" broadcasts "weird music" and "left-wing talk radio."  
**91.1 FM XTRA** XTRA broadcasts from Baja California. Like KROQ, except with a bit of a local flavor.  
**91.5 FM KUSC** This is USC's radio station. Some news and talk, but mostly classical music.  
**92.3 FM "The Beat"** plays rap, hip-hop, and occasionally R & B.  
**93.1 FM KODJ** "Arrow 93" broadcasts rock and roll oldies from the '50's, '60's, '70's, and '80's.  
**93.9 FM KZLA** "Modern country music."  
**94.7 FM KTWV** "The Wave" plays weird jazz/meditative music.  
**95.5 FM KLOS** Some classic rock, some hard rock, some grunge, and some heavy metal.  
**95.9 FM KEZY** Orange County's adult contemporary/pop station. It plays the softer top 40 hits and some 80's songs. It also broadcasts all the Mighty Duck hockey games. 95.9 doesn't come in well on campus.  
**96.3 FM KSFG** "Christian radio"  
**97.1 FM KLSX** Talk radio during the weekdays. Their weekend music is similar to Y 107's. 97.1 also carries USC football games.  
**97.5 FM KDUO** Elevator music.  
**97.9 (+.3) sKURV sKURV** radio is operated from Ricketts House at Caltech when it works, which is not very often. (It was operating for a few weeks third quarter last year.) The musical selection is based on the whim of whoever happens to be hosting.  
**97.9 FM KLAX** I've heard that KLAX is the home of "Mexican polka." It has the highest ratings in southern California.  
**98.3 FM KSKQ** "Mexican rock"  
**98.7 FM KYSR** "Star 98.7" employs the most annoying disk jockeys in southern California. Advertising themselves as "the at-work alternative," they play a lot of 80's music, some top 40 music, and a bit of modern rock.  
**101.1 FM KRTH** "KEarth 101" is an oldies station. Really soft.  
**101.9 FM KSCA** Advertises itself as "LA's Finest Rock." It bears some similarities to KROQ, but is aimed at an audience 10-20 years older. Some songs go back to the 60's; others are new wave and modern rock. Some of the music it plays, however, is just weird. Its Sunday night lineup includes "The Difference," hosted by Todd Rungren, from 7:00 p.m. to 9:00 p.m., the "House of Blue Hour," hosted by Elwood Blues for the next hour, and the "Grateful Dead Hour" at midnight.  
**102.3 FM KJLH** Advertises itself as an "urban" station.  
**102.7 FM KIIS** Dance, rap, and Top 40 music. It's also the home of deejay Rick Dees, who seems to annoy quite a few people. I've learned to tune him out when he's trying to be funny. He's actually a good deejay when he plays it

straight.

**103.1 FM KGRV** 103.1 has changed its format about half a dozen times in the past two years. They are currently "KGroove," advertising themselves as a dance music station which plays music from the 1970's, 80's, and 90's. Based on their ratings, I expect their format to change again before the year is up.

**103.5 FM KOST** Plays soft adult contemporary songs from the 1960's to the present. Most of the songs played on this station make a pretty good sleeping pill.

**104.3 FM KBIG** An adult contemporary station, it is like Star 98.7 without the annoying DJ's, and without Star's occasional modern rock and new wave songs.

**105.1 FM KKKO** Broadcasts classical music, including Caltech's unofficial anthem, "The Ride." Teachers always enjoy hearing this song, Frosh.

**105.5 FM KNAC** "Spanish pop"  
**105.9 FM KPWR** "Power 106" was a very good station about a dozen or so years ago. Very similar to "The Beat."

**106.5 FM "Q 106"** is an adult contemporary/pop station from San Diego. This station comes in horribly.

**106.7 FM KROQ** "The World Famous KROQ" is a modern rock station which used to call itself an alternative rock station. It plays lots and lots of grunge music, although other types of modern rock find their way onto their playlist as well. Shows include "Rodney on the Rock" (new music), "Reggae Revolution," "Out of Order" (their top 40 requested songs played out of order), and "Loveline."

**107.1 FM "Y 107"** changed format about six months ago into a "modern rock" station. They have no deejays, a good thing, and have lots of promos insulting other stations, which can occasionally get annoying. Similar to KROQ, although they do not have special flashback shows, intersperse older songs with the newer ones more frequently, and play a slightly larger variety.

**107.5 FM KLVE** "KLove" plays "Spanish pop."

## AM stations

**640 AM KFI** Talk radio.

**690 AM** "The Mighty 690" is an all-sports station operating out of Tijuana. On some nights (generally once a week), they broadcast in Spanish. This station doesn't come in well at Caltech.

**710 AM KMPC** A talk radio station. They also broadcast all the California Angel baseball games.

**790 AM KABC** A talk radio station, although they broadcast every Los Angeles Dodger baseball game and consequently will always have a place in my heart.

**980 AM KFWB** A 24 hour news station. For over twenty years, they have claimed that if "You give [them] 22 minutes, [they'll] give you the world."

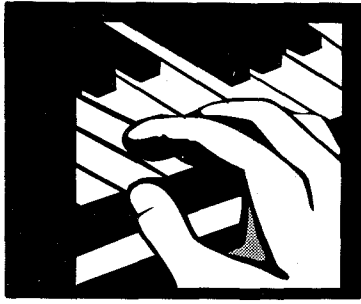
**1070 AM KNX** A news station, although they occasionally interrupt it for sports. They are marginally affiliated with CBS Sports.

**1150 AM KIIS** On a simulcast with 102.7 KIIS FM. The only difference is that KIIS AM doesn't broadcast in stereo.

**1330 AM KWKW** A Spanish language station. They broadcast the Dodger games in Spanish.

Some information in this article is from the '95-'96 little t.

# Boast a Wide Variety of Music and Shows



BY MASON A. PORTER

The Friday Night 80's Party is broadcast on KBIG 104.3 FM ("KBIG 104") Friday nights from 7:00 p.m. until 2:00 a.m. It is the best 80's music program in southern California, playing a lot of songs by artists who had few hits. Examples include "You Spin Me Around," by Dead or Alive, "One Night in Bangkok," by Murray Head, and "Tarzan Boy" by Baltimora. They also play songs by the Pet Shop Boys, Depeche Mode, Duran Duran, Madonna, the

Bangles, and other 80's artists. They play requests, although those who request songs by e-mail ([kbig104@aol.com](mailto:kbig104@aol.com); mention the 80's party in the title) have to be persistent. Occasionally, the hostess plays a song from 1990 or even 1991, but those songs (like "Enjoy the Silence" by Depeche Mode) are of 80's style anyway.

**Totally 80's Friday Night** is a recently instituted program by Star 98.7. It is broadcast from 7:00 p.m. until midnight every Friday. One is slightly more likely to hear obscure songs on this show than on the Friday Night 80's Party. However, this show is not as good. Like most Star deejays, the host does not know when to shut up. **Totally 80's Friday Night** plays only about two thirds as many songs as the Friday Night 80's Party, and they have the same time slot! Additionally, Star 98.7 has a weak broadcast signal.

**Richard Blade's Flashback Lunch** is every weekday for one

hour beginning about noon on KROQ. The music is from KROQ's play list of the 1980's and early 90's and tends to have a lot of new wave music. Since it is only one hour long, the quality of the show can vary quite a bit. KROQ's Flashback weekends, which occur twice a year (the Flashback 500 on Labor Day weekend, and a general Flashback Weekend some other time), are similar.

The **Dr. Demento Show** is broadcast live on KSCA each Sunday night from 10:00 until midnight. It advertises itself as a show filled with "mad music and crazy comedy." It contains lots of novelty records, some much more famous than others. One can expect to hear songs by such artists as The Toytes, Weird Al Yankovic, Tom Lehrer, The Frantics, and Napoleon XIV. Sometimes they even play songs (such as "Rock Lobster" by The B52's) that can be consid-

ered somehow demented. Usually, a theme occupies half an hour or more of the show. Closing each show is the "Funny Five," the top five requested songs of the previ-

*Todd Rungren highlights obscure covers of songs made successful by other artists.*

ous week. Dr. Demento sometimes conducts interviews: Elvira and Weird Al Yankovic have appeared on the show in the past. The lead singer of The Toytes will be on the show September 29, so one can be sure they will play "Smoke Two Joints" that day.

**The Difference**, hosted by singer and producer Todd Rungren, airs on KSCA from 7:00 p.m. until

9:00 p.m. every Sunday night. His show is quite eclectic. There are short interviews, but what makes the show interesting is its acoustic performances of recent songs. It's nice to hear other versions of familiar songs. The host also highlights obscure covers of songs made successful by other artists, like a cover of the Vapors' "Turning Japanese" performed by Liz Phair.

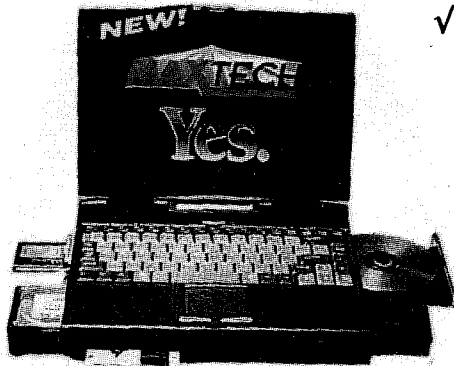
The **Weekly Top 40**, hosted by Rick Dees, airs Saturday mornings from 6:00 until 10:00 and Sundays from 9:00 a.m. until 1:00 p.m. on 102.7 KIIS FM. One will occasionally hear songs on the countdown that are inexplicably not receiving any airplay in southern California even though they are doing well in the rest of the country. If you are curious about the rankings, but annoyed by Rick Dees (a not uncommon phenomenon, you can find the Weekly Top 40 at <http://www.rick.com>.

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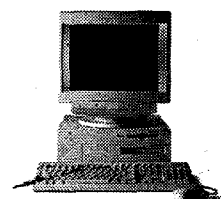
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Caltech Guitar classes this fall quarter will be held weekly on Tuesday starting on October 8th in Room 1 of the Student Activities Center. Beginning classes will be held from 4:30pm to 5:30pm, intermediate from 3:00pm to 4:00pm, and advanced classes from 5:30pm to 6:30pm. Classical and flamenco repertoires are explored but techniques transfer to other styles of guitar. Classes are free to Caltech students and other members of the Caltech community, space permitting. Undergraduates can receive three units of credit if they choose. For further information, please contact Darryl Denning as 465-0881 or [ddenning@cco](mailto:ddenning@cco).

The search is on for contestants for the **Miss California Teen All American Pageant** to be staged January 11th and 12th at the Holiday Inn in Visalia. Contestants are judged in three categories: Evening Gown, Swimsuit, and Personal Interview. There is no talent competition! Entrants who qualify must be ages 13 through 19 as of August 1, 1997, never married, and a six month resident of the State. College dorm student are eligible! To apply, send a recent photo along with your name, address, telephone number, and date of birth by mail to Department D-Miss California Teen All American, 603 Schrader Avenue, Wheeling, WV 26003-9619. The application deadline is **October 11th**.

Want to work in **Student Affairs Administration**? The Vice President for Student Affairs Office is hiring a **part-time work-study student office assistant** to answer phones, file, do some word processing on a Mac, and run random campus errands for 6 afternoon hours a week. Said student must also be available to work from 3pm to 5pm some Friday afternoons. The perks: good pay and free soda. Please see Jerri in 108 Parsons-Gates to apply.

Sign-ups for the 25th anniversary season of the Caltech **Women's Glee Club** will be held on Sunday, **September 29th**, from 1 to 4pm and Monday, **September 30th**, from 2 to 4:45pm in Room 1 of the Student Activities Center (underneath the South Houses). The Caltech Women's Glee Club, the oldest women students' organization on campus, welcomes all women in the Caltech/JPL community who love to sing and can commit three hours to rehearsal per week. All singers at all levels of ability are encouraged to join. There are lots of opportunities for solos and small ensemble work for those with previous choral experience. This special anniversary season will feature performances of music by Brahms, Schubert, Fanny Mendelssohn

(Felix's sister) and a new work we're commissioning to celebrate our anniversary by award-winning composer, Maria Newman, (Randy Newman's sister). For more detailed information about the Women's Glee Club, please contact Katie Stofer, President ([kstofer@ugcs](mailto:kstofer@ugcs)), Lila Guterman, Graduate Liaison ([guterman@cco](mailto:guterman@cco)), or Monica Hubbard, Director ([mhubbard@cco](mailto:mhubbard@cco), x6260). Rehearsals begin Monday, September 30th, at 5:00pm in SAC 1.

## Events

The **Occidental-Caltech Symphony Orchestra**, conducted by Allen Robert Gross, will hold a free concert in the Ramo Auditorium on Saturday, September 28th, at 8pm. The program includes Vaughan William's Overture to "The Wasps"; J.S. Bach's Harpsichord Concerto No. 4 in A major, BWV 1055; and Haydn's Symphony No. 104 ("London").

The **Caltech Men's Glee Club** and **Caltech Chamber Singers**, conducted by Dr. Donald Caldwell, will be holding sign-ups for their upcoming performance of Stravinsky's Opera-Oratorio Oedipus Rex with Metropolitan Opera Artist Dean Elzinga on Sunday, September 28th, from 2pm to 5pm in SAC 3, and Monday, September 29th, from 1pm to 4pm in SAC 3. Rehearsals will be Mondays 7:30pm to 9:30pm, Wednesdays 5pm to 6pm, and Tuesdays 5pm to 6:30pm. All members of the Caltech community are welcome to join to Men's Glee Club; no experience is necessary: an audition is necessary for the Caltech Chamber Singers.

Auditions will be held for the **Caltech Concert Band, Jazz Bands, and Chamber Music** on Sunday, September 29th, from 3 to 6pm and 8 to 10pm, and Monday, September 30th, from 4 to 6pm and 8 to 10pm, in room 12 of the Student Activities Center. For more information, please contact Bill and Delores Bing at (213) 684-8964 or [wbing@cco](mailto:wbing@cco).

The **Clef Hangers** are calling all women who appreciate barbershop, jazz, madrigals, pop, and show music; a subset of the Women's Glee Club, the Clef Hangers will be holding auditions on Sunday, September 29th, from 1 to 4 p.m., and Monday, September 30th, from 2 to 4:45 p.m. in SAC 1. Call backs will be announced on Monday at 6:00pm. For more information, please contact Monica Hubbard at x6260.

A **Geological and Planetary Sciences**

denotes a new announcement.

Seminar entitled "**Searching for Evidence of Biological Activities on Mars**" will be given by Hojatollah Vali, postdoctoral fellow at the Department of Earth and Planetary Sciences at McGill University, in the Salvatori Seminar Room on Monday, September 30th, at 4pm.

Harold Scheraga, Todd Professor of Chemistry at Cornell University, will be holding a **Special Biochemistry Seminar** entitled "**Theoretical Aspects of Protein Folding**" in the Sturdivant Lecture Hall at 2pm of Tuesday, October 1st.

Dr. Nathaniel Landau of the Aaron Diamond AIDS Research Center of New York will be discussing "**The Role of Chemokine Receptor 5 in HIV Entry and Susceptibility of Individuals to Infection**" in a **Molecular, Cellular, and Developmental Biology Seminar** on Tuesday, October 1st, in 101 Kerckhoff at 4pm.

A **Media and Science Symposium** entitled "**Science and Journalism: A Marriage of Opposites**" will be held from 9am to 2pm at the Beckman Auditorium on Thursday, October 3rd.

The opening performance of the forty-seventh **Paco A. Lagerstrom Chamber Music Concert** season will be given by **Mari Kodama** on piano on **October 6th** in the Dabney Lounge. The concert program will include Bach's Toccata in D Major, BWV. 912; Chopin's Sonata in B-flat minor, Op. 35; Schubert's Sonata in A Major, D. 664, Op. 120; and Dutilleux's Choral and Variations from Sonata for Piano (1947). Born in Osaka and trained in Paris, Mari Kodama has performed with the London Philharmonic and with Frans Brueggen. She has won prizes at the international competitions of Jeunesse Musicale de Suisse, Viotti-Valsesia, Citta de Senigallia, and F. Busoni in Bolzano. Her recordings include Prokofiev's Concertos No. 1 and 3 with the Philharmonic Orchestra, Kent Nagano conducting. For almost 50 years, the Paco A. Lagerstrom Chamber Music Concerts at Dabney Lounge have offered intimate programs to chamber music lovers from Caltech and the community. These concerts feature artists of international repute as well as promising young performers. All concerts are held on Sundays at 3:30 p.m. Admission is free.

Caltech's 1996-97 Armchair Adventures travel film series kicks off on Friday, **October 11th**, with Robin Williams' (the travel lecturer, not the comedian) "**The Trail: Lewis & Clark Expedition**." Williams retraces the

route of this historic journey from Monticello all the way to the Pacific Ocean. This adventure will begin at 8pm from the Beckman Auditorium. Individual tickets are \$9.00 and \$7.00. Series tickets for all six coming films are \$45.00 and \$39.00.

## From the Counseling Center

The Counseling Center is offering a **women's therapy group** for graduate students to begin in the fall term. The group is designed as an expansion of the women's group offered last year which provided an opportunity for women to examine a range of personal and professional issues in a confidential setting. Through group discussion, women will have the opportunity to examine their patterns of relating to others, their family and intimate relationships, and challenges they experience in achieving success. Another important goal of the group process will be to facilitate a sense of closeness and connection within the group. Each new group member needs to meet with the group leaders for a pre-group interview. If you would like more information or to schedule a pre-group interview, please contact the Counseling Center at (818) 395-8331 by **October 15th**. The group will be offered on Tuesdays at the Counseling Center and will begin in October.

Looking for a safe and supportive place to discuss issues such as coming out, being out, dealing with family, coping with a homophobic culture, and being GLB at Caltech? Want somewhere just to make new friends? You are invited to the **Gay/Lesbian/Bisexual Support Group**, which meets on the first and third Tuesdays of each month from 7:30pm till 10:00pm in the Health Center lounge. This is a confidential meeting and attending does not imply anything about a person's sexual orientation—only that he or she is willing to be supportive in this setting. The group usually discusses a particular relevant topic and then moves on to the general discussion. Refreshments are served. If you would like more information, please call x8331.

A variety of other groups will be offered by the Counseling Center during the academic year and will be described in future issues.

## Fellowships and Scholarships

From the **Fellowships Advising and Resources Office**, extension 2150, e-mail [lauren\\_stolper@starbase1.caltech.edu](mailto:lauren_stolper@starbase1.caltech.edu):

The **Lindbergh Foundation Grants Awards** support innovative ideas at their early stage of development. The grants are open to citizens of all countries and support research and educational projects that address in some way the balance between technology and the environment. Ten grants in amounts of up to \$10,580 are awarded each year. Applications are available through the Fellowships Advising Office.

From the **Deans' Office**, 102 Parsons-Gates:

The **Harry S. Truman Scholarship Foundation**, established by Congress in 1975, is the official federal memorial to honor our thirty-third President. The Foundation awards \$30,000 merit-based scholarships to junior-level college students who wish to attend graduate school in preparation for careers in government or elsewhere in public service. Scholars may attend graduate schools in the United States or in foreign countries. In 1997, up to 85 students will be awarded Truman Scholarships. They will receive leadership training, graduate school counseling, preferential admission and merit-based aid to some premier graduate institutions, and internship opportunities with federal agencies. They will

establish friendships with persons sharing similar values and interests. Scholars are eligible to receive \$3,000 for the senior year of undergraduate education and \$27,000 for graduate studies. The Foundation defines public service as employment in: government at any level, uniformed services, public interest organizations, nongovernmental research and/or educational organizations, and public service oriented nonprofit organizations such as those whose primary purposes are to help needy or disadvantaged persons or to protect resources. The eligibility requirements are: a full-time junior-level student at a four-year institution, committed to a career in public service as defined above, and in the upper quarter of his or her class, and a U.S. citizen. If you are interested in applying for the Truman Scholarship, please contact the Dean of Students Office, 102 Parsons-Gates. The deadline is late **December, 1996**.

From the **Financial Aid Office**, 515 S. Wilson, second floor:

The **National Hispanic Scholarship Fund** is accepting applications for awards ranging from \$500 to \$1,000. Applicants must be U.S. Citizens or permanent residents of Hispanic heritage, full time undergraduate or graduate students, and must have completed at least one term of college before submission of the application. Applications are due **October 1st, 1996**.

**Northrop Grumman** is beginning their scholarship selection for 1996-97. They will be offering one scholarship to an undergraduate who has a career interest in the Aerospace/Defense Electronics Industry. Applicants must be U.S. Citizens, full-time students in 1996-97, and must have a GPA of 3.0 or above. Applicants must also be majoring in one of the following fields: Electrical Engineering, Mechanical Engineering, Aerospace Engineering, Computer Science/Engineering, or Manufacturing Engineering. To apply, submit a resume and an academic transcript to the Financial Aid Office by **October 11th, 1996**.

Applications are now being accepted for the 1997-98 **National Academy for Nuclear Training** scholarships. Scholarships are \$2,500 each and will be awarded to eligible students majoring in nuclear engineering, power generation health physics, or chemical, electrical, or mechanical engineering with nuclear or power options. Applicants must be U.S. Citizens, have minimum 3.0 GPAs, and be full-time sophomores, juniors, or seniors in 1997-98. Preference will be given to students demonstrating specific preparation for employment in the U.S. nuclear power industry. Applications must be postmarked no later than **February 1st, 1997**.

The **John Gyles Education Fund** is offering financial assistance to students in Canada and the United States. Canadian or American citizenship and a minimum 2.7 GPA are required. Selected students will receive up to \$2,500. The deadline is **November 15th** (postmark date). To receive an application, send a stamped (U.S. \$32), self-addressed No. 10 envelope to: The John Gyles Education Fund, Attention: R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Dr., Fredericton, New Brunswick, Canada E3B 5G4.

The **Jewish Family and Children's Services** is pleased to announce the continued availability of financial support for Jewish individuals and their families. JFCS provides hundreds of students loans, grants, and scholarships to Jewish students. Individuals may apply for up to \$5,000. Special scholarships are available for study in Israel. To be eligible, students must have financial need, have at least a 3.0 GPA, and be residents of San Francisco, the Peninsula, Marin or Sonoma counties, or the Bay Area. There are no deadlines—applications are accepted throughout the year and are available in the Financial Aid Office.

# Caltech Jazz Bands Concert Band Chamber Music

## Auditions

Sunday, Sept. 29  
3:00-6:00  
8:00-10:00

Monday, Sept. 30  
4:00-6:00  
8:00-10:00

Student Activities Center  
Room 12  
located under Fleming House  
sign-up sheets posted on door

All \* members of the Caltech community are welcome, regardless of previous experience.

Questions? Contact  
Bill Bing (bands) [wbing@cco](mailto:wbing@cco), (213)684-8964  
Delores Bing (chamber music) [dbing@cco](mailto:dbing@cco), (213)684-8964  
or consult our web page  
<http://www.cco.caltech.edu/~musicpgm/instrumental.html>

\*Pianists auditioning for chamber music must be Caltech students

THE CALIFORNIA TECH

Caltech 40-58 SAC  
Pasadena, California, 91125