

PRE-REG
TODAY!

CALIFORNIA THE TECH

No Class
on Monday

Volume XCIII, Number 28

Pasadena, California

May 22, 1992



At Monday's Women's Center rally, Rosana Madrid Gatti makes sure President Thomas E. Everhart gets her message as he makes his way to the Athenaeum. Approximately one hundred people attended the rally, which was held on the Olive Walk and preceded a Faculty Board meeting to discuss the center. At the meeting, President Everhart and other administrators took input from several segments of the Caltech community concerning the proposed Women's Center and its role.

Photo by Rajesh "Q" Bilioria.

Registration Survey Reveals Students' Feelings on Housing, Safety on Campus

Pamela Abshire
& Maneesh Sahani

Many of the undergraduates reading this will recall completing a survey handed to them at registration at the beginning of this term. In *The Tech* last week we presented the results from 7 of the 26 questions

on that questionnaire; today we present the results of 8 more.

Two questions surveyed student opinion about safety on campus. When asked, "Do you believe that campus security is effective?", most students answered *negatively*; the average response was 3.7 where 3 was neutral and 5 was not at all. When asked, "Do you feel safe on campus?", most students answered *positively*; the average response was 2.3 where 1 was very and 3 was neutral. (When the sample for this second question was restricted to people who claimed to be female the mean shifted by 0.3 towards

insecurity though this might not be statistically significant.) The discrepancy between the answers to the two questions may seem somewhat surprising, but we believe that it reflects well on the community. Many students commented that their reason for feeling safe, despite their perception that security is ineffective, was because they trusted their fellow students or because they had taken self-defense courses. One student even commented that personally he felt very safe, but that he did not believe his belongings were safe at all.

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TECH

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Sophomores and Juniors:
Run for Class President of
your class next year.

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Without
Sam**

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Former Astronaut, Scientist Speaks At 55th Seminar Day

Mike Benedetti

Dr. Harrison Schmitt, the first scientist and last man on the moon, was the General Session Speaker for the 55th Annual Seminar Day. In his speech "Mission to Earth, Moon, and Mars," he explained how the exploration of space has the potential to reverse the deterioration of the environment, to improve education, and to provide evolutionary security for mankind.

Dr. Schmitt began his talk with a poetic description of the 1972 Apollo 17 mission (for which he was the pilot). He then outlined what he called the "Chronicles" plan—an agenda that would put a human settlement on Mars by 2015 while at the same time solving many problems back on Earth.

Schmitt's plan centered on the extraction of Helium-3 from lunar soil. Deposited by the solar wind, Helium-3 can be used with deuterium in a relatively low radiation fusion reaction. There is enough Helium-3 on the moon to produce six hundred trillion gigajoules of power, with a processing cost (in energy) of only 1/250th that.

Schmitt described how his plan would deal with the three issues he believes will be most pressing in the

decades to come: empowerment of the people, the environment, and the exploration of space. He claimed that a lunar mining project could help remedy all three. By providing a nearly limitless supply of low-radiation nuclear fuel, such an operation would help solve the energy crisis, would provide Third World nations with the cheap energy they need to develop, and would help prevent further destruction of the environment in the search for energy. By giving mankind a positive goal, it would foster peace in a new world order. Finally, it would improve education in some unspecified way.

When he was done speaking, Dr. Schmitt fielded a few questions, mostly about energy. Schmitt seemed not to consider any form of energy other than He-3 fusion as a valid source of future power. He maintained that natural gas is more important as a chemical than a fuel, and that "as a global alternative to raise the quality of life around the world, I don't think solar energy will make it."

Schmitt, an engaging and inspiring speaker received a B.S. in geology from Caltech in 1967, and a Ph.D. from Harvard in 1964.

Caltech Students Affected By L.A. Riots, King Verdict

Matt Metz

Most of the Caltech community seemed relatively dispassionate concerning the rioting in L.A., during April 30 to May 1, and the verdict of the Rodney King case. No letters were sent to the editors on either of these issues. No demonstrations were held. Not even a discussion group was organized. However, not all Caltech students were so detached from these events.

Edray Goins, a sophomore mathematics major, had concern for his family as the first incidents of violence began at the intersection of Florence and Normandy in South Central L.A. His home is just two blocks from the intersection. He wondered how his parents and younger brother, and the people in his community, "...would be able to carry on their lives if the riots continued for long."

Danny Howard, a black graduate student, was called to duty by the National Guard. He spent two and a half weeks serving in various parts

of the city. He states that, during that time, "Mainly threats came from gangs. Most people were supportive."

Both students were dismayed by the verdict of the King case, but neither felt surprise. Goins tells, "Black community leaders had been saying for weeks that people should not riot *when* the verdict came down null [not guilty]." Howard says, "There was no question that they [the four officers who beat King] were guilty, but looking at the makeup of the jury made me believe they would get off not guilty."

Neither student thought that the rioting was because of the King case. In Howard's view, "Demonstrators were not looking for trouble." He felt that the lawlessness was encouraged because, "...police did not stop people from committing crimes, so everyone saw what they could get away with, and the media exploited [this]."

Goins saw a different factor as continued on page 3

ASCIT Minutes

Korhan Gürkan

Present are the BOD minus Rob, Eric Stout, Bryce, Ewald, Walker Aumann, Frank Filipanits, Fru, Gavin Claypool.

Appointed Offices: Signups for Big T Editor and Coffeehouse Users Group Reps are STILL OPEN. If you are interested, please sign up.

Elections: Ewald is ready for the election of class officers. Signups for Junior and Senior Class President and Secretary/Treasurer went up on Wednesday, and will come down Tuesday, May 26. Signups are on the wall next to the DRL's office. Elections will be on Monday, June 1.

IHC will be choosing the Student-Faculty Committees hopefully this week.

Faculty Board Meeting: Mike and Amit briefs the BOD on the Faculty Board Meeting which was on Monday. The topics discussed

were sexual harassment policies, Women's Center and the new gym. The new gym will open in September. It looks great and it will not be open to the public. The Women's Center got support at the meeting and a new sexual harassment policy drafted by the students was presented, as well.

ASCIT Movies: Fru got \$6000 from the Student Investment Fund for the new sound system. The money will be disbursed over three years so, Fru needs our support to get an institute loan so that he can have all the money he needs this year. The sound system will cost \$10,000 and Fru wants to have it ready by fall. ASCIT has already committed \$2000 for the sound system. The loan will be discussed later. Also, there seems to be some problems in the relationship between the BOD and the ASCIT Movies. The BOD will try to smooth things out.

Y NEWS

Philip Cofield

Oh, boy, do I hate computers. This thing has eaten my last three disks, so I'm getting quite perturbed. Welcome to the slightly annoyed edition of this week's Y News.

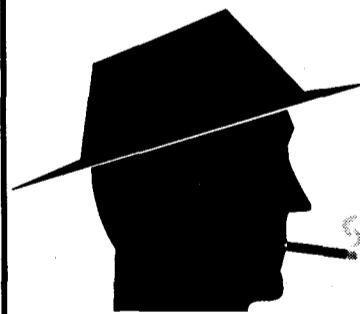
I'm told the big news for this week is the Pankow Ranch Associate Picnic Thing. It will be held on Sunday, May 31 somewhere in Tujunga. Transportation is provided, food is free, no strings attached. Just sign up in your house or in the Y by around next Thursday.

Tomorrow there is a string ensemble concert. Next week is the Whiffle Ball tournament on Wednesday; really, we mean it this time. Sorry it was canceled last week due to some people setting up some "stuff" in the middle of our ballpark. We really will have the tournament eventually.

Moeen just reminded me to tell everyone to sign up for the LA Foodbank Volunteer trip on Saturday, May 30, so there you go. For more info on anything or to find out what's going on that I've forgotten to put in this article, stop by the Y or call x6163. G'night all.

Crime & Incident Beat

Rajan Ranga



5/7 At 2:40 PM a witness called security to report that three suspects were removing aluminum cans from the Caltech Recycling Center. The suspects were interviewed by security and were advised that they were on private property. They were then escorted off campus.

5/13 At approximately 8 AM witness reported that all the seniors were missing. A search was made throughout the campus but they were nowhere to be found. The bewildered students went to the seniors' rooms but, they were all locked up. The students tried all day to get into the seniors' rooms to see where they were. Fortunately, at 5 PM the seniors began to show up and everyone began to celebrate.

FRIDAY NIGHT ASCIT MOVIE

**Bruce Lee:
Enter
The Dragon!**

Baxter Lecture Hall
7:30 and 10:00 pm
\$1.50 ASCIT
\$2.00 Other

.....
Next Week:
Misery
.....

IHC Minutes

Karen Ross

Present: Alan Low (Da), Paquito (Pa), Kate (Bl), Ed (Ru), Rich (Fl), Rob (L), Lanny Boswell, David Wales (MOSH), Nancy Carlton, Aimee Elicott, Ben, and me.

The meeting of May 14, 1992 began at 9:10 PM.

Allen Low was Alf's substitute.

Aimee Elicott talked about having a "Wellness Week" at Caltech to promote physical and psychological wellness and health. This would be a joint effort of the Residence Life department, the Health Advocates, and the counseling center. There is a planning meeting/lunch Thursday, May 21 from 12:00-1:00 PM at the Red Door Cafe. Anyone interested should attend. Aimee passed around flyers advertising the meeting to post in the Houses. Aimee left at 9:15 PM.

Discobolus: Ruddock defeated Fleming in track. Page challenged Ruddock in some variety of dodge ball. Ruddock was the overall discobolus winner for the year. Congratulations! (But sing less depressing songs the next time you wander around the Houses drunk.)

Pet Policy: Nancy Carlton attended the meeting to discuss the pet policy. Many changes were made. It is now a cat policy, not a pet policy, since cats were the only animals causing a problem. (And Walker Aumann can't find a vet anywhere who will neuter his corn snake.) The policy will not insist on a House Pet Representative; instead, each House will individually come up with methods for enforcing it. Also, cat owners will have the opportunity to take care of flea problems with supermarket "flea bomb" before the Housing Office charges \$60 to do it for them. Nancy will incorporate these and other changes into a revised version of the policy and bring it back to the IHC next week. Nancy left at 9:45 PM.

Ben distributed registration forms for the Caltech Leadership Institute that will be held September 13, 14, and 15. See your House President if you want to sign up.

Student/Faculty Committee interviews will be held Wednesday, May 20 at 10:00 PM and Thursday,

Jim's Journal



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Travelogue, Part 1

Reflections on leaving from a senior who graduated early

Pete Rogan

It is hard to drive down the 110 expressway with tears in your eyes.

I have always enjoyed taking the turns and curves of this road; today is no different. This is the beginning of quite a trip for me, and the end of a different trip. The tears, the sadness well from the fact that I am leaving behind many good friends. Oh, I'll be back for the big goodbyes at graduation. We'll keep in touch. But, for the next few months where I would've been spending time with them, bonding with them, instead I have chosen another path.

I realized during first term this year that it would be easy for me to graduate early. I thought about it a lot and during Christmas Break I was tempted by plans to travel to Eastern Europe with a high-school chum in May. I could not pass up that opportunity in exchange for an academically unnecessary term.

In the end, we will not travel in May. He dogged me, bailed out to use his money to buy a car. Oh, I'm not bitter; no, no, not at all. I'll get there on my own this summer. But it was still meaningful, wise, for me to finish early. I decided that as long as I was putting off Europe until after graduation, I'd use the time to enjoy my trip home.

It normally takes me three days to

May 21 at 9:00 PM according to the following schedule:

Wednesday: Patents, Library, Industrial Relations, Academic Policies, Food Committee chairman, Institute Programs, Student Housing, Scholarships and Financial Aid, and Curriculum.

Thursday at 9:00: Upperclass Admissions, Relations with Secondary Schools, Foreign Students, and Grievance.

Thursday at 10:00: Frosh Admissions, UASH, and Health.

If you signed up for any of these committees please come to the IHC meeting room (around the corner from the MOSH/DRL's office) at the appropriate time for your interview.

make Dallas; this time it takes three weeks, with a detour through Canada. I have not seen any of California north of San Luis Obispo, and I definitely haven't seen anything outside the borders of the U.S. I'm tired of America, very tired of it. Any chance to get away for awhile will be refreshing, and I am interested to see what I can of our neighbor in the Great White North.

So I'm driving down the 110 (I need to make a quick stop in Santa Monica before I head North). I'm trying to make out the signs, signs I've read so many times. The tears are coming and going. It is painful to leave friends behind.

At the same time I am extremely excited. It is really hitting me that I'm done, I'm graduated. I am moving on to something else. I don't know what that something else is; I don't think it'll be engineering - not immediately. The most important thing I learned at Caltech is that mechanical engineering is not the end-all, be-all for me. There is more out there for me. And I don't want to find it through a string of hobbies. I will not be a weekend warrior.

For now I need to leave engineering behind. I need to leave Caltech behind, finish early, and wander for awhile. I'm just sorry that means I have to leave my friends behind also.

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Registration Survey

Of late, housing has been a prominent issue among the undergraduates. C House appears to be coalescing, while progress on the Master Plan takes off campus housing away. Thus a large section of the survey was devoted to housing concerns. Students were asked, "In the event that Caltech builds more housing, would you like to live in . . ." and various options were supplied: "an eighth traditional undergraduate house, with its own traditions that will (presumably) evolve over time," "dormitory style housing with no house-style government," "alleys affiliated to the current seven houses but located in the new housing," "the same building as graduate students," and "the same building as graduate students and some faculty." The overall results are presented in the graphs below (an answer of 1 meant "very much" and an answer of 5 meant "not at all"):

We should point out that in regard to these questions the number of positive responses is perhaps more important than the average feeling. If Caltech builds new housing, it seems useful for the new facility to meet a perceived need that is not currently addressed. Even if this is unpopular in general, those who prefer the current arrangement will still have that option; and if we can find enough people to fill the new house it would seem to be a good idea to provide for them.

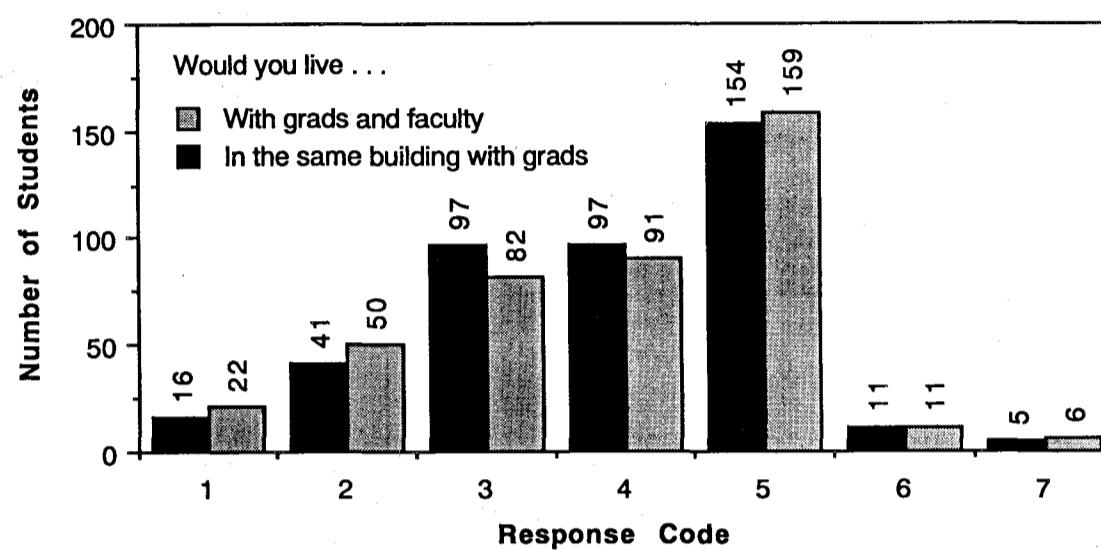
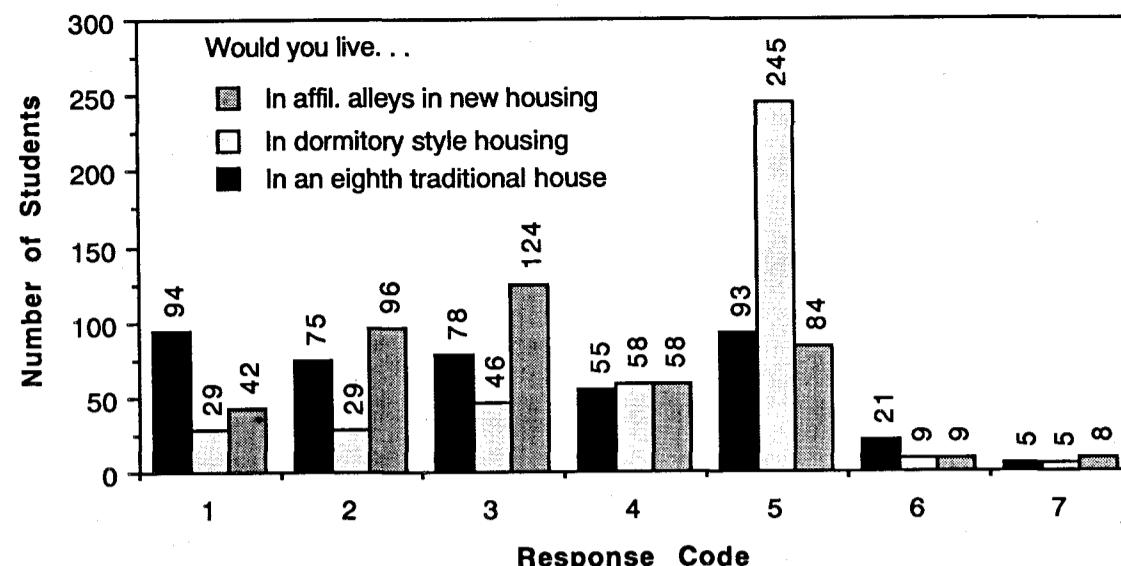
By and large, the answers to these questions were similar between the houses and the classes. However, we did notice that members of Fleming, Lloyd and Page were all more agreeable towards dormitory-style housing and opposed to an eighth house or affiliated alleys than were members of Dabney, Blacker

and Ricketts. A similar trend was seen when comparing students currently off campus (preferring dorms) to those now residing on (preferring eighth house or alleys) and also comparing juniors (dorms) to the other classes (eighth house or alleys).

As for living with non-undergraduates, Darbs and Lloydies preferred the idea more than did Flemings, Pageboys or Rudds, off campus students were better disposed to the idea than on campus residents, and seniors were more enthusiastic than the frosh.

Finally, some of you will recall the appearance of Shanty Town outside the Master's office last year. This event was meant to focus attention to the current shortage of housing, and was seeking a guarantee from Caltech to provide at least four years of housing to all undergraduates. We asked, "Would you like to see four years of housing guaranteed by the catalog to all undergraduates? [1=YES!, 2=yes, 3=neutral, 4=no, 5=NO!]". The response was (predictably) positive, with a mean of 1.5. The Moles were quite committed to this coming in at a mean of 1.2, while Flemings were the least concerned (still above 2, though) at 1.8.

This survey was distributed and analyzed by students working on their own time for the (unofficial) Get Out and Push Committee. There aren't many of us, though, and the authors of both this and the last article are graduating (YES!). If you'd like to see these results pursued and these sorts of efforts continue you need to come and take over from us (yes, that means YOU). We meet in the IHC room at noon on Thursdays. See you there.



Response Codes: 1=YES!, 2=yes, 3=neutral, 4=no, 5=NO!, 6=unsure, 7=no response.

The California Tech is looking for dedicated photographers and writers to cover campus events. Send email to editors@tech or stop by SAC 40 if you're interested.

Riots affect students

the main cause of the rioting; "I hope people realize that the riots were caused by economic problems not the verdict of the Rodney King case. The King case represents only a facet of the problems in the country." He still feels concern that there is potential for much more violence; "As long as people are living in ghettos this can happen again, the question is just when."

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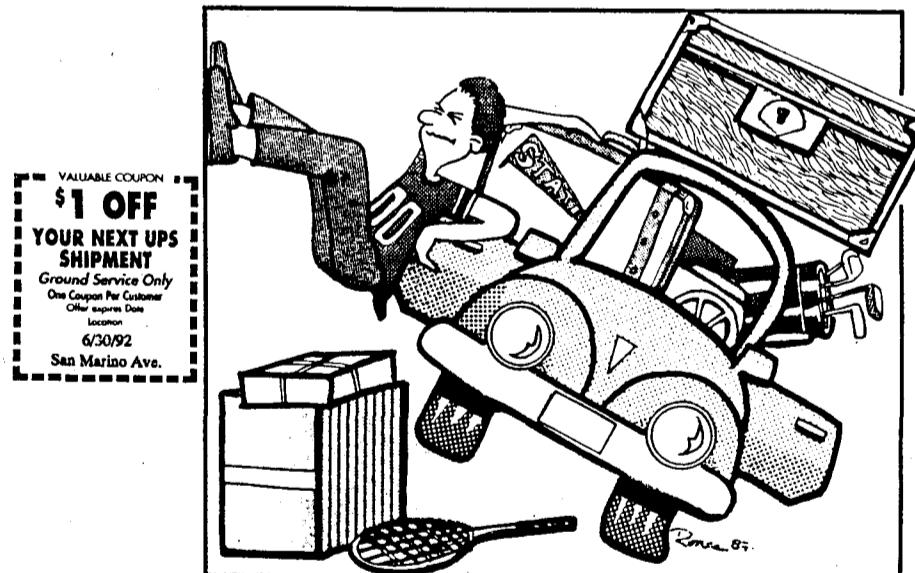
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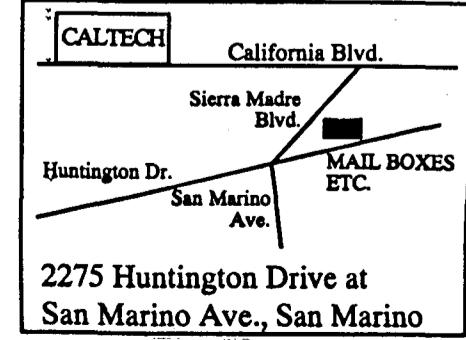
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2	GNP	MODEL 10	6" 2 WAY PLATINUM FINISH	399	269 ND	3	MITSUBISHI	M-C5100	GREAT TRANSPORT	550	249 ND
1	GNP	MODEL 10	SINGLE SPEAKER ONLY!	200	99 D	1	DENON	DGM-369	6 DISC CHANGER	350	249 D
1	MIRAGE	990	TOWERS	1200	899 D	1	DENON	LA-2000	CD AND VIDEO PALYER	700	560 ND
1	CELESTION	SL-6	ACURATE AND SMOOTH	990	692 D	1	NAKAMICHI	CDPlayer3	MUSIC BANK	599	499 D
1	CELESTION	100	SLIGHT CRUNCHED CORNER	1300	975 ND	1	LUXMAN	DZ-121	PROGRAMMABLE/ DIG OUT	400	239 F
5	MIRAGE	MCC	SHIELDED (SOLD AS EACH)	180	149 ND	1	LUXMAN	DZ-122	PROGRAMMABLE/ DIG OUT	550	399 N
1	MITSUBISHI	M-S8040	SUBWOOFER DEMO ONLY!	600	399 D	2	LUXMAN	DZ-112	PROGRAMMABLE/ DIG OUT	500	299 ND
1	MARTIN LOGAN		SEQUEL Mark II	2650	1899 D	6	LUXMAN	DC-113	CHANGER 6+1	680	399 F
1	MITSUBISHI	M-S8040	SUBWOOFER	600	499 N	DIGITAL SEPARATES					
1	KLH	THINGS	TOWERS	ALOT	350 U	#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	GNP	W-101	WOOFERS FOR LEAD CYLIND.	600	249 U	1	LUXMAN	D-113D	TRANSPORT ONLY!	550	99* F
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1	GNP	MODEL 2	OAK DEMO	600	420 D	1	MARK LEVINSON	No.30 THE ULTIMATE		13950	13950 ND
TAPE DECKS					1	PROCEED	PDT 2	TRANSPORT	1750	1488 ND	
#	BRAND	MODEL	COMMENT	REG\$	SALE\$	1	PROCEED	PDP 2	D2A CONVERTER	1650	1295 ND
1	LUXMAN	K-112	3 HEAD	600	399 N	1	AUDIO ALCHEMY		TRANSPORT	995	795 D
3	NAKAMICHI	Cassette2	BRAND NEW MODEL	400	339 ND	1	ARC	DAC1-20	USES ULTRA ANALOG CHIP	3495	3146 D
2	DENON	DRM-700	3 HEAD SYSTEM REMOTE	400	299 N	1	PS AUDIO	DIGITAL LINK II		799	399 U
1	LUXMAN	K-111	DOLBY B/C	380	264 D	1	AUDIO ALCHEMY		DIGITAL DECODING ENGINE	399	351 ND
1	DUAL	C939	THING	580	78 U	*W/PURCHASE OF ANY D/A CONVERTER					
1	DENON	DPS-610	2 HEAD	300	239 N						
1	AKAI	GX-625	10" REEL-TO-REEL	1200	399 U						
1	LUXMAN	K-110	AUTO-REVERSE	480	384 ND						
2	NAKAMICHI	Cassette1	3 HEAD NEW MODEL	800	680 ND						
TURNTABLES					CARTRIDGES & TONEARMS						
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1	DENON	DP-23	D-DPL/AUTO QUARTZ AUTO	300	229 D	1	SME	309	TONEARM	1195	895 D
1	LINN SONDEK		AXIS W/BASIC TONEARM	795	399 U	2	DENON	DL-160	HIGH-OUTPT MOVING COIL	115	99 ND
1	JA MITCHEL	HYDRAULIC REFERENCE TT	W/ INFINITY	1134	325 U	1	DENON	DL-301	MOVING COIL	169	99 N
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1	ACURUS	L-10	LINE STAGE	599	488 D	1	PIONEER	LD-W1	LASER PLAYS 2 DISCS BS	1700	750 U
1	ACURUS	P-10	PHONO PREAMP	299	166 D	2	MITSUBISHI	CS-1348	14" W/REMOTE	349	277 ND
1	NIKKO	BETA III	A GREAT VALUE	419	125 D	1	SONY		VIDEO TUNER	800	75 U
1	ARC	SP-14	ABOUT A YEAR OLD!	2995	2150 U	2	MITSUBISHI	HS-U54	VHS 4 HEAD HI-FI	599	449 ND
1	ARC	SP-9 MkII	DEMO ONLY!	1875	1650 D	1	MITSUBISHI	CS-2610	26" STEREO TV DEMO ONLY	700	499 D
						1	DENON	LA-2000	LASER DISC/CD PLAYER	700	499 ND
						1	MITSUBISHI	HS-U55	VHS 4 HEAD HI-FI	799	499 U
						2	MITSUBISHI	HS-U55	VHS 4 HEAD HI-FI	799	566 ND
						1	MITSUBISHI	CS-2002	20" TV	400	299 ND
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1	NAD	2240	PWR 40 W/CH BRIDGEABLE	328	175 U	1	NAKAMICHI	Receiver2	37 W/CHANNEL W/REMOTE	400	319 ND
1	AMBER	SERIES 70	PWR 70 W/CHANNEL BRIDGEABLE	350	U	#	LUXMAN	R-351	USES BI-POLAR X-ISTORS	650	553 ND
3	B&K	ST-120	PWR 60 W/CH	398	295 ND						
1	MARK LEVINSON	No. 27	PWR 100 W/CHANNEL	4450	3000 D						
1	ACURUS	D1A 100	INTG 100 W/CHANNEL	1000	798 D						
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ENTERTAINMENT

Hear and See Voices in Winnett

An interview,
transcribed by A. Golomb

Next weekend a very unusual play will open in Winnett Lounge at Caltech. At an institution where men greatly outnumber women, this play will be performed by women only; though the play has five characters, no two performances will have the same cast; and in a medium that is intrinsically theatrical, this play, Voices by Susan Griffin is intensely personal.

I asked a few of Voices' actresses and the show's director Shirley Marneus (who is also the head of Theatre Arts at Caltech) to discuss the project:

Patricia Houseworth who plays Grace immediately said "bring a box of Kleenex. There isn't a woman on the face of the earth who won't feel touched by this show."

They were all very enthusiastic about the process of figuring out their characters and performances.

Anita Nardine (Kate): "Shirley has a wonderful vision of what can be done with the piece which works well with her style of directing....Shirley always lets you bring something to the party. She likes to sit back and see what you'll do. If you ask her "How do you want me to say that?" She'll ask how *you* would say it. She doesn't tell you how to do it, only how not to do it."

Cathleen Stevens (Maya): "It's a very intimate play."

Donna Piviroto (Grace): "The interaction among the women participating in Voices reminds me of my women's group."

Anita: "It's definitely a communion of sorts."

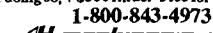
Patricia compared the experience to childbirth: "Rehearsal is a labor, but a labor of love, and when you're through it you get a wonderful feeling of fulfillment and satisfaction".

Shirley: "I like the metaphor: Contract, drive, Contract, drive, Breathe..."

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They all agreed that there was an element of group therapy to the process, and Anita is reminded by the three part structure of the piece of a sonata. "It has a first section, a second section and a third section with a little Rondo in it."

Shirley: "In the first we see what other people did to them, in the second what they did themselves, and in the third section we find out what they are doing and what they are going to do."

Debi Tuttle (Roselinde): "In rehearsals we have gone through the text line by line and analyzed it as though it were poetry. I'm taking this for credit and as a literature class it would be worth nine units instead of three."

Anita: "There are aspects of these characters in all of us, and of us in all these characters. We've all been through these experiences."

Shirley: "Yes. I recognize everyone of the characters in myself, we all do."

Donna: "Falling in and out of love, working and playing, laughing and crying, raising children and being single.... We are all everywoman."

Anita: "Still at times in rehearsal we see why Shirley picked us for a particular part."

Patricia: "Unfulfilled dreams, unrealized potential" That's me.

"Grace's identity is that of her husband and her children. When she says "who was I before I met William?" it makes my hair stand on end."

Cathleen: "I play Maya and the family situation is similar to mine. Her mother worked and tried really hard to make things OK for her family. I feel the same about my mother and Maya is always busy, always has too much on her plate; but she can't be any other way. That's the way she functions best. I'm like that too."

Donna: "I was surprised to be cast as Grace, the empty nest mother of four, because thought we had nothing in common, but as rehearsals went on I found that I had been Grace in my earlier life."

Anita: "My character Kate is an actress and is always adopting different roles and she plays herself as a role too, so I identify more with the other characters."

Gina Walton (Kate): "It seems odd at twenty-five to be playing a woman at

the end of her life, questioning her choices, but amazingly I see many similarities to my life, not only with Kate, but with all the characters."

Anita: "But the characters are all so very different, and each interpretation is so different."

Patricia: "Pam was saying to me the other day in rehearsal: 'Grace would do it like this', and I said 'No! I know Grace' I've come to identify so strongly with her character...and watching Elizabeth (Sheiman) as Erin is gut wrenching."

Elizabeth Sheiman: "It is a cathartic experience, in many ways, to say the least (especially my part.)"

Anita: "You see she is in incredible pain whereas Susan as Erin is acting on the edge of madness."

Gina: "Each character is played by two people and it's surprising to see how different each one is, but each one hits home."

Elizabeth: "Although this play is nearly twenty years old, it isn't really dated. We can see that our lives have really stayed the same from generation to generation."

Anita: "Did you read the introduction by Susan Griffin? The script came out of a women's writing workshop. If you look at the play, each character's speeches make a monologue."

Debi: "We've all had the experience of suddenly being struck by some new meaning or insight, even after reading it so many times, there's so much depth to the text. A person couldn't possibly get it all in one person performance."

Thelma Macabites (Business Manager): "They can come and see it again."

Shirley: "That's the voice of a business manager!"

"I have not put my hands on this very, much. First of all because we didn't have the time, but also because each actress has to find the experience within herself. Life is an extemporaneous challenge. So is this play. (You can quote that)....I want these actresses to stop doing what's easy for them and tackle a challenge, and while they're at it they can challenge a few stereotypes as well."

Anita: "In life we all get to a point where we think 'My, This isn't quite what I'd planned, but would I give it up?'

This play is about that point....
"The title says it's a play for women,

and apparently we have to put that on the poster, but men should see it too so they will understand women better."

Ken Andrews (Lighting Designer): "I'm puzzled to hear that anyone might think it was just for women. I was fascinated reading the script and hope other men will enjoy it as much as I have"

Patricia: "This unique glimpse into the nature of womanhood is not to be missed."

You can experience Voices in Winnett Lounge on May 22-25 and May 29-31. Tickets are \$7; \$5 for students and seniors. See Box for the cast of each performance.

The voices are Corinna Garcia, Debi Tuttle, Patricia Houseworth, Donna Piviroto, Anita Nardine, Gina Walton, Susan Odry, Elizabeth Sheiman, Cathleen Stevens, and Pamela Walton.

Cast Schedule:

Friday May 22 @ 8:00 p.m.: Corinna, Patricia, Gina, Elizabeth, Cathleen

Saturday May 23 @ 8:00 p.m.: Debi, Donna, Anita, Susan, Cathleen

Sunday May 24 @ 8:00 p.m.: Debi, Patricia, Gina, Elizabeth, Pamela

Monday May 25 @ 2:00 p.m.: Corinna, Donna, Anita, Susan, Pamela

Friday May 29 @ 8:00 p.m.: Corinna, Patricia, Gina, Susan, Pamela

Saturday May 30 @ 2:00 p.m.: Corinna, Donna, Anita, Susan, Pamela

@ 8:00 p.m.: Debi, Donna, Anita, Elizabeth, Cathleen

Sunday May 31 @ 2:00 p.m.: Debi, Patricia, Gina, Elizabeth, Cathleen

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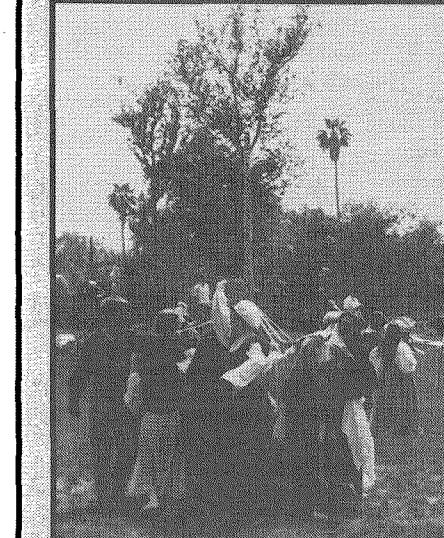
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Last Saturday, May 16, The Caltech Medieval Society held a day of revelry in celebration of the rebirth of spring. Activities included combat in full armor (above), May-pole dancing (left), feasting, and crafts of all kinds. Photos by Rajesh "Q" Billello.



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Bridge Without Sam

Jeff Goldsmith

In Earnest

We were in Memphis. It had already become humid and the ACBL had invited Caltech to play for the Intercollegiate Bridge Championship, while, down the road, the real fight was happening, the fight to select the United States Bridge Team. It was the first session and we were playing against RPI, my *alma mater* and the co-favorites with us, when I dealt this hand, a good one, but not the kind of hand that lends itself to action, at least not at first.

♦ AQJ52 ♠ J542 ♦ — ♣ 10762

I had to pass and leave the fight to the others, though I hoped to get in it again someday and fully expected them to be waiting for me.

"1NT," LHO said.

"How many?"

"10-13," he answered.

When the board got back to me, partner had passed and RHO had bid 2 ♠.

"Alert."

I didn't choose to act, and was happy about it when LHO bid 2 ♠S. Partner passed and RHO bid 2NT, which was too high for me. Evidently it was too high for all of us, and we played there.

Partner led the ♠ 3. Looking restless, dummy placed his hand on the table. I liked the looks of that one. I'd've bid 3NT and hope to make a vulnerable game, something worth the effort.

♦ K9
♡ Q86
♦ KQ10753
♣ K3

N		AQJ52
W		♡ J542
E		♦ —
S		♣ 10762

Declarer played low. But not without a bit of thought. He played as if he thought he were being fooled, and he was. I played the Jack and it won. What is going on? Partner must have the ♠ AK and declarer has gone wrong at trick one. We can beat this hand. We have four heart tricks and three spade tricks, but we have to take them. And take them fast, because diamonds will run since partner can't have that Ace. Will it be that easy? No. Partner can't tell what to do after he wins four heart tricks and I have to help him. I do. I play the ♠ 5, and play the Four under his third heart. When I played the 2 under partner's fourth heart, her sat up and looked around; they were all watching him. He smiled. The ♠ 10 hit the brown table with the confidence of a young man in Paris. He had read my heart card order as a suit-preference, what he needed to know. It worked. We had seven tricks before they did and we scored 200.

Our teammates came back, scorecard clutched in hand, worrying that there was little chance we would triumph. On this hand, they won 660 for our side by reaching 3NT from our dummy's point of view. The defense had the cards to prevail, but they couldn't find there way. 860 was 13 IMPs on the way to a first-round lead in Memphis in May. It would not be enough.

Caltech Bridge Team Loses

Jeff Goldsmith

Caltech sent its Bridge team to the National Intercollegiate Finals for the fourth year in a row. This time, even though they were favored in the event, they finished third, losing to a decent team from Rensselaer Polytechnic Institute and a team from the University of Maryland. The event was very close, with only one hand separating Caltech from the winners.

Rounding out the field were less experienced teams from the University of Kentucky and from Auburn. Auburn was most noted for a pair of pretty, young women, who impressed all with their enthusiasm and integrity.

The bridge team was Bobby Bodenheimer, Jeff Goldsmith, Brian McAllister, and Fred Upton, two of whom have placed second previously. Over the last four years, Caltech has placed 3rd, 2nd, 2nd and 3rd in the nation. We are still seeking for the elusive first place finish. Wait 'till next year.



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SPORTS

Caltech Athletics Wrap Up Spring Season

Jill Bush

Spring sports at Caltech have come to an end and quite a few Beavers have been recognized for their contributions to their respective teams this year.

BASEBALL: Coach John D'Auria awarded the following trophies to his team: Alumni Trophy (M.V.P.) - Steve Hoekstra; John C. Peterson Trophy (Outstanding Freshman) - Alan Blaine; Most Improved - Tim Wachholz; Coaches' Awards - Brian Duchovnay, Todd McLaughlin, and Anthony Gonzalez. The captain-elect for the 1992-93 season is Steve Hoekstra.

GOLF: Coach Mike Jackson's

golf team, led by captain Craig Smith, had a single award given this year. The Ben Earl Team M.V.P. Trophy went to freshman Tim Nelson. Tim is also the captain-elect for next year's golf season.

MEN'S TENNIS: The men's tennis team was led by Coach Paul Coffman this year. Most Valuable Player is David Park and Most Improved Player is Kevin Wang. The captain-elect is Greg Wardle, who will be assisted by co-captains-elect Albert Lee and Chandra Das.

WOMEN'S TENNIS: Coach Karen Nelson led the women's tennis team this year along with co-captains Nancy Hua and Fiona Lo. The team had two M.V.P.'s this

year: Fiona Lo and Diane Wong. Most Improved went to Monica Holboke and the Players' Award went to Karen Shih. This year's Coaches' Award went to Miran Rhee. Co-captains-elect for next year's season are Diane Wong and Jill Bush.

TRACK: The track team, led by Coach Jim O'Brien, will not have their banquet until early June. They are waiting until after Aaron Matzner returns from representing Caltech at Division III National Track Competition in Maine. The team is very excited for Aaron and they all wish him the best of luck.

Congratulations to all of these outstanding Beaver Athletes!

Club Homeboy Sponsors Full Women's Heptathlon

Ned Bowden

By now nearly everyone has seen the Dan-Dave Reebok commercials (the commercials featuring the two best decathletes in the world) and wondered if those guys were so good why aren't they in the NFL cashing in on their talent. Here is your chance to discover the wonderful world of decathlons and heptathlons by competing in the second annual Caltech Heptathlon. Next Sunday from noon to 4 or 5 P.M. at

the Caltech track, Club Homeboy will be sponsoring a full women's heptathlon. That means that everyone will use the women's implements to compete with in the 100m hurdles, long jump, high jump, javelin, shot put, 200m dash, and the 800m sprint. This will be a low key event - translation, no one has practiced for this heptathlon but we will come out for fun. Expected turnout will be between ten and fifteen people of all ranges of talent, so there will be someone as good or

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WHAT GOES ON

NOTICES

Wanted: Books! - This year's annual book sale is scheduled for Friday, May 29, and members of the Friends of Caltech Libraries are preparing now by collecting new and used, hardback and paperback books from members of the Caltech/JPL community. Donations in all subject areas are needed. Bring donations to the first floor of Millikan Library during the week between 8 a.m. and 5 p.m.

Poetry Workshop - In Y Lounge, 2nd and 4th Tuesdays every month, 7:30 to 10 p.m., more info from kathy@bombay.gps.caltech.edu (also, x6955).

Seniors - Your families should have received information on the senior banquet by now, and should be sending in reservations. I would greatly appreciate it if you would all start thinking about seating arrangements. Please tell me who you want to sit with - other seniors, professors, coaches and staff, etc. Your advisors will be invited as well as the RAs and some coaches. If there is anyone else you would like to sit with, contact me immediately so I can invite them. Only graduating seniors have received banquet invitations. If you will not be graduating this term, won't be around next year and wish to go, you need to get an invitation from me. You can contact me directly at Blacker #18, 796-9457 or 578-9370, or send questions and information to mail box #517. - Andrea Mejia, Senior Class President.

Senior and Junior Class Officers - Nominations are now open for junior and senior class officers. The sign-up sheet will be posted at the Mosh's office until 5:00 p.m. on Tuesday.

EVENTS

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

Adult Children of Alcoholics self-help group forming on campus. If you are an adult child of an alcoholic and are interested in starting an ACA 12-step meeting on campus, please come to this organizational meeting on Thursday, June 4th, from noon to 1 p.m., in room 8 of Dabney Hall (Humanities Building). Bring your lunch. For more information, call Shelley Black at x8360 or Aimee Ellicott at x8331.

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

Preschool Playgroup - Structured activities for mothers and their children. Sponsored by The Caltech Women's Club in the Caltech Villa Apartments on Tuesday, May 26 from 10 a.m. till noon. For more information contact Valerie Murray, 287-8960.

Fortunetelling at Caltech - Tarot card classes (hosted by Poetry Workshop). Make your own deck. In Y Lounge, 2nd and 4th Thursdays of the month, 7 to 9 p.m., more details from kathy@bombay.gps.caltech.edu (or x6955). Free and open to the public, so bring a friend.

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Primordial Undermined will play in Winnett quad at noon on Friday, May 22. For further information contact Chris Sunderberg at x6163.

Voices - A play about five women characters, performed entirely by women. Performance in Winnett Lounge, mostly at 8 p.m. on May 22-25, 29-31 in Winnett Lounge. Sponsored by Theater Arts at Caltech. Directed by Shirley Marneus. Tickets are \$7; \$5 for students and seniors. See Box for the cast of each performance. For further information call 356-4652.

Arroyo String Ensemble - The Caltech Y presents the Arroyo String Ensemble, on Saturday, May 23 at 8:00 p.m. in Dabney Lounge. The thirteen member ensemble led by John Krovoda and featuring soprano Lynda Anders will play music of George Gershwin, Victor Herbert, Charles Ives, Henry Cowell, and Samuel Barber. Admission is free.

FOCAL Book Sale - New and used, hardback and paperback books on a wide variety of topics, fiction, history, science, travel, biography and more, will be offered at the annual FOCAL (Friends of Caltech Libraries) book sale May 29 and 8:30 a.m. to 2:30 p.m. in Dabney Lounge. Enter through Dabney Garden. Most books range in price from 50 cents to \$2. Proceeds will be used to strengthen the Caltech libraries' book collections. Bring donations for the sale to the first floor of Millikan Library.

Pasadena Needs You! - Be a volunteer after-school tutor in the Pasadena School System. It takes just one hour a week. Sign up at the Caltech Y or call Riki at 356-9258.

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

ENTERTAINMENT

Tickets - Raging Waters tickets are available for weekends only for \$13.50. Sea World & Magic Mountain tickets are available for \$16.25 and \$17.50 respectively.

The Pasadena Folkdance Co-op offers beginning instruction every Friday at 7:45 p.m. in Throop Unitarian Church. Following the instruction club members provide refreshments and all are invited to participate in the dance program. Wear soft soled shoes. A \$1.50 contribution is requested.

Chamber Music: Fridays at Noon - Caltech students give a performance of Baroque chamber music at noon, today in Dabney Lounge. Lunch will be served on a first-come first-served basis with preference given to Caltech students. The May 29 concert will feature performances of Dvorak's "American" string quartet and music for four flutes. Sponsored by Student Affairs. For more information call x6198.

Spring Craft Faire - The Caltech Student Activities Office is sponsoring the Spring Crafts Faire on Winnett Lawn. Today is the final day so show up! Includes handcrafted items by artists from Southern California.

Global Ozone: Geophysical and Anthropical Influences - Dr. Richard Turco of the department of atmospheric sciences at UCLA will give a lecture on the factors which affect global ozone levels, at 4 p.m. on Tuesday, May 19, in the Beckman Institute auditorium. The lecture is part of the Seminar Series on Global Change. Refreshments will be served at 3:45.

"Advances Directive in Health Care" - Julian Miller will present the aforementioned seminar at noon on Thursday, May 28, in room 118 of Keith Spalding. The presentation is part of the Caltech Employee Caregiver Program.

Renaissance Pleasure Faire - The Caltech Y has discount tickets available for \$12.50 for this annual event. The festivities continue every weekend plus Memorial Day through June 14th.

LECTURES

Summer College Work-Study - Information and applications for 1992 Summer College and Work-Study are available in the Financial Aid Office. If you are interested in Summer College Work-Study, please submit the required application as soon as possible, but no later than June 1, 1992. Your entire financial aid application must be completed by June 1 to be considered. Summer College Work-Study award determinations will be announced as completed applications are reviewed. If awarded, the work-study funding will begin with the July 6 payroll period.

The California Council of Civil Engineers and Land Surveyors will award several \$2,000 scholarships for the 1992-93 academic year. Scholarships are available to upper division undergraduates and graduate students who are continuing their education in the field of civil engineering and land surveying. Scholarship recipients shall be US citizens with a minimum GPA of 3.5 in civil engineering and land surveying courses and a minimum overall GPA of 3.2. Deadline for application is May 31, 1992.

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

"No, Virgil, No! The Battle of Actium on the Shield of Aeneas" will be presented by Professor Robert Gurval, UCLA, in the Judy Library in 110 Baxter at 4 p.m. on Friday, May 29. Refreshments will be served.

"The Use and Abuse of Statistics in the Real World" - The Sceptics Society presents Judith Grabiner, professor of mathematics, Pitzer College, in Baxter Lecture Hall at 2 p.m. Sunday, May 31. In a presentation planned for non-technical people with little training in mathematics, Dr. Grabiner, who is not a statistician, will demonstrate ways to critically and analytically move beneath the surface of various types of statistics in the real world. Admission is \$8. For further information call 213-283-9773.

CAREER DEVELOPMENT

Seniors, please Remember to fill in and return your student survey as soon as your post graduation plans are definite, or by May 22, whichever comes first. The survey is very important in helping us to gather statistics to be used for our annual report. If you need another survey, just let us know!

The Career Development Center is open from 8-12 and from 1-5 and can be found in 08 Parsons-Gates. Or call us at x6361.

SCHOLARSHIPS & FELLOWSHIPS

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

SUMMER COLLEGE WORK-STUDY - Information and applications for 1992 Summer College and Work-Study are available in the Financial Aid Office. If you are interested in Summer College Work-Study, please submit the required application as soon as possible, but no later than June 1, 1992. Your entire financial aid application must be completed by June 1 to be considered. Summer College Work-Study award determinations will be announced as completed applications are reviewed. If awarded, the work-study funding will begin with the July 6 payroll period.

The ASME Scholarship Program has information on the William J. and Marjorie E. Adams, Jr. Scholarship. Applications and supporting letters must be in the office of the ASME Foundation no later than 5:00 p.m. on Friday, June 5, 1992.

Applications for the National Hispanic Scholarship Fund are now available. Eligibility requirements are listed on the application. The deadline for all supporting documents and the application is June 15, 1992.

To qualify for the Harry S. Truman Scholarship, undergraduate junior-level students at four year colleges and universities must be nominated by accredited colleges and universities. Students must be ranked in the upper third of their class, be pursuing a bachelors degree as a full-time student, be a U.S. citizen or national, and be pursuing a field of study which will permit admission to a graduate or professional program allowing better preparation for a career in public service. The annual awards range from \$3,000 to \$13,500 with an average of \$6,500. For more information write to Louise Blair, Executive Secretary, 712 Jackson Place NW, Washington, D.C. 20006 or call 202-395-4831.



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