

It's Halloween! Agnes Nutter predicts the end of the world in seven days.



Caltech Catering Services holds a Food Fest!

details next issue

THE CALIFORNIA TECH

VOLUME XCIX, NUMBER 7

PASADENA, CALIFORNIA

FRIDAY, OCTOBER 31, 1997

Billion-dollar Getty museum to feature paintings in natural light

BY DAISY JAMES

On December 16 (two days after the end of finals), The Getty Center will open to the public. This million-square foot facility will house a museum and several Getty foundations to support the fine arts. It has been under construction for years, and has a total price of approximately one billion dollars.

The first view of the Center gives one immediate and powerful impression: this place has a lot of money. Set on a 110 acre campus in the Santa Monica mountains, with a view that would be breathtaking if it wasn't for the smog, it is a huge construction of glass, marble, and stone. The entire thing is perfectly white (one wonders how well that will last in this environment) and extremely modern. From the parking lot you take a tram (pulled by cables on the tracks, as far as I could tell) up to the main buildings. The surrounding area is all landscaped in native Californian plants, and



The new Getty Complex has a beautiful ocean view... on a clear day.

done well enough for it to take a while for you to realize that it is landscaping. On the grounds things are more elaborate, with a garden designed by the artist Robert Irwin that will feature a completely man-made stream, as well as several imaginative fountains.

In the new museum all of the paintings are displayed on the second floor of a sectioned building surrounding a courtyard. They are arranged in chronological order and can be viewed in natural light, as there

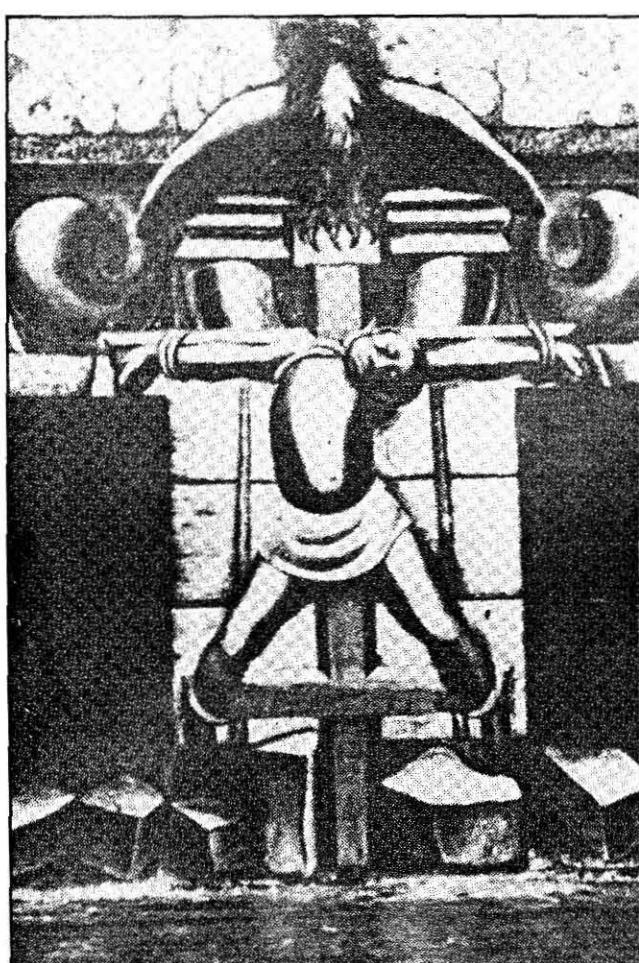
are special louvers on the skylights that adjust through the day to let only the right amount in, so that the pictures are not destroyed. The collection itself is impressive, with pictures by Rembrandt, Van Gogh, Cezanne and Hals, among others. There will be temporary and traveling exhibitions as well as the permanent collection on display. In addition to the paintings and furniture there is also a large permanent collection of photography.

A bit of history

The Getty Center has grown out of the Getty Trust, money left by J. Paul Getty to display and expand his art collection. Because of stipulations in his will, all of the art in the gallery is European and painted before the twentieth century. Also, due to his personal tastes there is an inordinately large collection of antiquities and French furniture. All of these have, up till now, been displayed in the Getty Villa in Malibu, now closed for renovations.

Not just a museum

While it is best known for its museum, the complex also houses The Getty Research Institute, The Getty Conservation Institute, The Getty Information Institute, The Getty Education Insti-



A work of art that one might hope to see at the museum.

SEE GETTY ON PAGE 3

In search of the blue flash
Pumpkin Drop Experiment to occur at midnight, on the west side of Millikan

BY AUTUMN LOOIJEN

As part of the annual Pumpkin Drop Experiment, a dozen LN₂-cooled pumpkins will fall nine stories to the earth from Millikan roof at midnight tonight. This experiment, organized each year by Dabney House, is not wholly limited to pumpkins. In the past, it has included Twinkies and other food products, and pumpkin drop organizers promise surprises this year, as well.

Rumor has it that if the pumpkins have been suffi-



ciently cooled, they will emit a blue flash upon impact. This flash has been attributed to a quantum mechanical effect known as triboluminescence, which occurs during the breaking of crystal bonds. Much the same effect is seen in Wint-O-Green® Life Savers®; however, because of their manufacturing process, the Life Savers® do not need to be cooled to produce a flash.

The blue flash is usually seen once every four or five years. It was last seen in 1988 by Dabney House president William Flick and other participants. Flick told *The Tech* that year, "It certainly surprised the hell out of me; I didn't expect

SEE PUMPKIN ON PAGE 6

ASCIT Movie cancelled

BY JOE CARROLL

The ASCIT Movies regrets to announce that this week's movie, *The Shining*, has been canceled. After a steadily building series of projector malfunctions (if you've seen a movie this year, you've experienced at least a couple), something finally broke that we couldn't fix. A very non-standard sound exciter bulb burned out, and a week long search of projector supply houses, knowledge-

able alumni and Caltech contacts has failed to uncover a replacement. We have a couple of leads, but nothing that would pan out by tonight. If the projectors cannot be fixed, we can ask our suppliers to ship 16mm prints instead, so the movies should resume soon one way or the other. Thank you for your patience, and if you really want to see *The Shining*, let me know and you can borrow the reels to look at.

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LETTERS TO THE EDITOR

Vote yes on Measure Y next Tuesday and help Pasadena schools

Dear Editors,

On Tuesday, November 4th, Pasadena school district voters will have a chance to approve a \$240 million bond issue to rehabilitate the school district's very old physical plant.

For over a decade, California's per student funding has been near the lowest of all 50 states.

Our district has had to delay for many years the maintenance and upgrading that was sorely needed, in order to use inadequate funds directly for classroom teaching.

Now the needs are truly enormous and action must be taken.

The quality of our schools is important to all of us at Caltech, whether we have children in them or not, since they strongly impact the reputation and economic strength of Pasadena, and they impact the lives of over 20,000 children in our community.

1. Repairs are essential for safety. In some schools, plumbing, electrical wiring, roofs, and restrooms have had not received adequate attention for 35 years.

2. Science and technology upgrades are needed if the district is to have laboratories and computer infrastructure appropriate for today's needs.

The Pasadena K-6 science program, developed in partnership with the Caltech precollege Science Initiative, is now internationally known, and is supported by the NSF for dissemination to other districts across the state and nation.

Reform at the next level, in grades 7-10, is now under way, with a plan to emphasize student investigations and the use of computers.

The laboratories to make this possible for all children simply do not exist, but they will if the bond issue is passed.

3. State funds will be available to supplement the bond issue if it passes, funds we all are paying for but will not share in unless we support our own bond issue.

4. A comfortable well cared for environment enhances student learning, while a poor one, in buildings sorely in need of rehabilitation, de-means the students and the teachers, and suggests a low value for education.

I hope all of you will conscientiously vote Yes on Measure Y on Tuesday, November 4th, and that those who want to do more will help in the get-out-the-vote campaign, by calling George van Alstine at 797-8970.

JERRY PINE

PROF. OF BIOPHYSICS

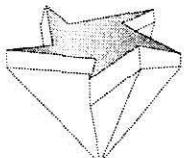
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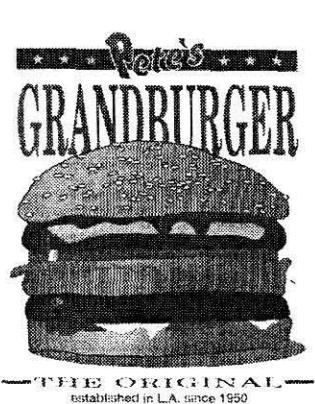


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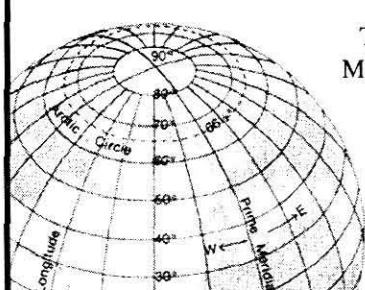
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Conversely, you could be turned down simply because you have no credit card and therefore no credit history to report. While this situation is not the norm, it does happen.

Finally and most importantly, you may need to buy car to get you to work. Having a good credit history will allow you to take out a loan at much lower interest rate.

Since having a good credit history is so useful after college, having a credit card during college may make sense to you. Still, the warning about the dangers of plastic should be taken seriously. Not paying your bills on time will give you a poor credit rating, making your life miserable when companies, rental offices, and banks start checking your credit history.

If you can't pay your bill in full every month, you will end up giving a lot of money to the credit card companies. The credit card interest rates are around

SEE SAMSON ON PAGE

THE CALIFORNIA TECH

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NEWS

Did the proposed bylaw change pass?

The recent bylaw change was so close that the error points were the deciding factor. Sadly, the ASCIT bylaws do not provide a way to deal with error in a bylaw election. In light of this, the ASCIT Excomm has ruled the election indeterminate, and it will be held again in a few weeks. Until a change in the election procedure is considered (which would be another bylaw change), there's still no way to handle error. With luck, the next election will be more decisive and it won't matter.

Nicholas Breen
ASCIT Election-mongerer

I.H.C. MINUTES

PRESIDENT: Brett (Page), Geoff (Dabney), Geoff (Ricketts), Marty (Blacker), Steve (Lloyd), Shumway (Fleming), Jeremy (Ruddock), Judy (Secretary)

The meeting begins with the IHC declaring "We need an IHC chair!" Geoff (Ricketts) asks, "Judy, do you want to be chair?"

Judy replies, "I don't want to be IHC chair....Then I'd have to be on ASCIT."

The Disco challenge this week is Dabney vs. Page in women's boxing. Time traveling gnomes report that Page will win on Sunday.

Geoff (Dabney) asks about the \$3500 from Tom "The Man" Mannion. Some houses used some of it for damage, but the tidy houses received the full \$3500.

Meeting closes, then adjourns.

Respectfully Submitted,

Judy Green
IHC Secretary

GETTY: New museum to open December 16

CONTINUED FROM PAGE 1

search Institute, The Getty Conservation Institute, The Getty Information Institute, The Getty Education Institute, The Getty Leadership Institute and the Getty Grant program, all dedicated to the Fine Arts.

The Getty Research Institute for the History of Art and Humanities has been set up to explore questions about culture through these media. To this end they maintain a large (750,000 volume) scholarly library and occasionally publish works and translations along these lines. Related to this is the Conservation Institute, which focuses on projects to preserve monuments, artifacts and archaeological sites, sometimes to the extent of reburying the latter after they have been observed and analyzed. Their work has included an ancient Indian settlement in New Mexico, several fifth and sixth century Buddhist temples near Datong, China and the hominid footprints in Laetoli, Tanzania.

The rest of the Institutes are more concerned with education.

Naturally, the Education Institute is: its focus is on improving arts education in the schools, through grants, politicking, and

*... a garden
designed by the
artist Robert
Irwin ... will
feature a
completely man-
made stream...*

conferences. They also are doing research as to what is the best way for art appreciation to be taught so that the students aren't bored sick. Together with this is the Information Institute, which is focusing on getting educational art sites on the web and otherwise in electronic form and to try to bring young people to it. There is also an emphasis on using electronic techniques to restore or recreate ancient and damaged artworks. The Leader-

ship Institute does its part with adult education, training museum managers modern practices and strategies.

Covering all of these fields is the Getty Grant Program, which has given away sixty-seven million dollars to date (described as "a small portion of the Fund's endowment") for research in any of the aforementioned fields. There is also an internship program for graduate students at the Center.

Admission to the museum is free, though parking is five dollars and reservations must be made in advance. You do not have to have a parking reservation to get in, and there are two bus lines which run to the museum. Extra efforts have been made to make the museum more accessible and enjoyable for college students.

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The Outside World

by Myfanwy Callahan

BAGHDAD, IRAQ — Iraq ordered all Americans working for the United Nations arms inspection team to leave the country within a week. They also demanded that flights searching for prohibited Iraqi military programs be halted. The U.N. immediately suspended the operation for the first time since the Persian Gulf War of 1991.

ZUWARAH, LIBYA — President Nelson Mandela of South Africa bestowed his country's highest award on Col. Muammar el-Qaddafi for his support of the fight against apartheid. Nonetheless, he urged Libya to support the United Nations. Libya has been under a U.N. arms and air embargo since it refused to hand over two suspects for an international trial.

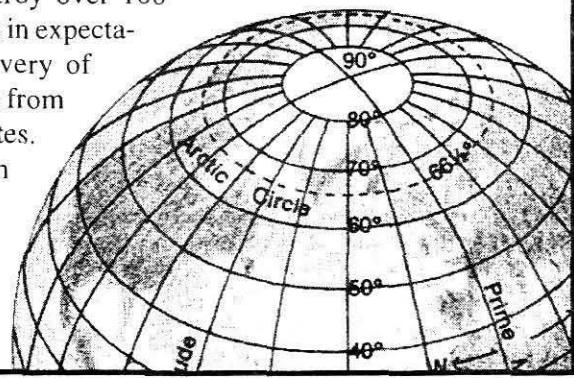
SARAJEVO, BOSNIA AND HERZEGOVINA — The Muslim-Croat Federation is ex-

pected to destroy over 100 artillery pieces in expectation of a delivery of new howitzers from the United States. Washington promised to arm the federation during peace talks when it

was found that Muslim-led Bosnian Government Army was severely outgunned by the Serbian forces.

WASHINGTON, D.C. — As the Chinese President, Jiang Zemin's visit continues, President Clinton and President Zemin settled many commercial agreements, but still disagreed on human rights issues. Jiang Zemin defended what he described as China's historic preference for order over personal freedom.

NEW YORK — The Dow Jones plummeted 554 points on Monday after a similar crash in Hong Kong set off the world's markets for great losses. To prevent further losses for the worst drop this decade, the stock market was forced to close early. Over the next few days, however, the stock markets rebounded significantly.



Give blood!

Caltech is sponsoring a two-day blood drive and bone marrow donor program which will be held in the Winnett Student Lounge on Wednesday, November 12, 1997 between 10:15 a.m. and 3:30 p.m., and on Thursday, November 13, 1997 between 12:15 p.m. and 5:30 p.m. Please contact Vilia Zmuidzinas via e-mail at hrdvez@hr.caltech.edu or at x6001 for an appointment. Walk-ins are also welcome.

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ADAM VILLANI: MEDIA GUY

by Adam Villani

Boogie Nights

Paul Thomas Anderson's *Boogie Nights* is 100% imitation Scorsese, but you can do a lot worse than imitation Scorsese—like, say, imitation Tarantino. This tale of the rise, fall, and redemption of well-endowed porn star Dirk Diggler follows the classic Hollywood rags-to-riches story arc, but the excellent performances, stylish direction, and several eye-popping set-pieces keep the movie vibrant and fresh. Mark Wahlberg, whom you may remember as Marky Mark, is phenomenal in the lead. This movie will not only earn him a lot of newfound respect in the business, but also revive Burt Reynolds' career. Reynolds has real presence as the director and father figure of a troupe of porn actors that act more like a close family than most of the traditional ones you see in movies these days. The two-and-a-half hour running time could have been trimmed, but even during the slow spots, the audience can at least get a kick out of the wild '70s costumes and makeup. Julianne Moore (*Safe*), Don Cheadle (*Devil in a Blue Dress*), and William H. Macy (*Fargo*) are great in supporting roles.

The Ice Storm

This new film from director Ang Lee (*Sense and Sensibility*, *Eat Drink Man Woman*) is perhaps the best picture of the year to date. Kevin Kline, Joan Allen, and Sigourney Weaver play Connecticut suburbanites in 1973 experimenting with the new freedoms of the Sexual Revolution, but in doing so neglecting their true feelings, better judgement, and duties as parents. It's that last part that is the crux of the film, as the children

(most notably Christina Ricci and Elijah Wood) get lost amid changes both from adolescence and within society. Ang Lee has a way of making very complete movies, gracefully combining serious drama with black comedy; the photography is breathtaking and the screenplay is tight, intelligent, and original. Look for this to be a major contender at the Oscars in Spring.

What Happened to Groove Radio?

Those of you who were around last year may remember Groove Radio, 103.1 FM, as being one of the most innovative stations on the dial, showcasing new dance music not heard anywhere else. Not any more. After a year of poor ratings (no doubt substantially due to their abysmally weak signal) management fired program manager/DJ Egil Aalvik in August. Egil owned the name "Groove Radio," but the station didn't really change that much under new moniker "The Groove" and new PD Mohamed Moretta, or at least not until they decided to switch to a Top-40 format last month, heralded by an entire Wednesday with programming consisting of nothing but an endless 5-second loop of the Spice Girls.

Unsurprisingly, the lame new format brought in scores of angry letters, and within a week they proudly announced that "Groove is back" and switched back to the old format—sort of. You see, by the time the Groove came back most of the old DJs had been fired and the station had jettisoned much of what had made 103.1 special. Gone was most of the trip-hop, trance, and live DJ mixes, and suddenly "The Groove" meant almost nothing but mindless house music and disco flashbacks/rehashes. What had once been on the cutting edge was now a kind of low-rent Power 106. Oh well, there's always public radio.



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A.S.C.I.T.

Minutes

Minutes of the ASCIT BoD Meeting, 27 October 1997

Present (at some point): BoD, Brandon VandeBrake, Brett Tolman-Halbert, Autumn Looijen, Devi Thota, Maria Satterwhite, Ryan Clancey

(This week Itchy = Mike W. and Scratchy = Mike A.)
Meeting opens at 22:10.

Alex Ihler won the election for VP/BoC Chair. Welcome to hell, mofo.

Dealing With Guests

Brandon - In the last election, the voting for the bylaw change was so close that ambiguity in the bylaws about how to deal with error made it impossible to determine whether the measure passed. The Excomm Secretary extraordinaire informs us that the Excomm decided not to decide about the problem and thinks we should just hold the election again. Great. It is decided that the next election ballot (for the newly vacated office of BoC Secretary) will also carry a bylaw proposal that clears up this problem. Brandon points out that the Excomm has several other bylaw change proposals. Kohl and Scratchy are going to put them together for consideration by the BoD.

Devi - Picks up the check for the ASME. Immediately contracts cholera.

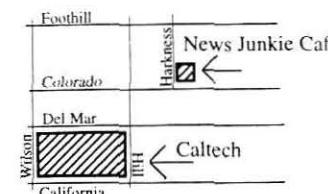
Ryan - Handsome and engaging. A neo-Grecian figure of male beauty. A living Guess jeans add. A guy who can cook up some mean cheese sticks. He delivers the food for the meeting and jets off leaving a musky odor of desire in his wake.

Autumn - Brings by some copies of the UCSB school newspaper to show that other campus papers have similar content/ad ratios. The BoD spends about five minutes looking at ads for strippers and Budweiser. Scratchy considers transferring. Autumn feels that tying such a ratio to the editors' salaries can only lead to reduced total income for the Tech and make layout headaches for the editors. The BoD agrees, citing the Honor Code as a reason to trust the editors to maintain the integrity of the paper. Lori suggests that the Tech could offer more financial incentive to potential writers to increase the volume of submissions.

Kohl - "I'll be back in five minutes." He splits.]

Strangely enough, **Mic** is not here with another compensation schedule proposal. **Autumn** has developed one of her own, though. Therein, the editors'

SEE ASCIT MINUTES ON PAGE 8



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*Ach du lieber, take me to your leader
or else you get der*

ii Trick and Treck!!

'Tis the season of the year
when goblins and tricksters appear
midterms and other signs clear
well underway and drawing near
to their crux and point of no return as I know you **all fear**
So you pay careful attention and work on for dear
life with all great ideas entering one ear
not escaping but staying right here,
Homework does leave you blear-
y eyed, but then so would beer
y'hear!

'Tis the season
where you need to reason
and act not by compulsion
no conflagration
near untenable position
on tip standing onion

In

the season of Halloween
the orange pumpkin
with its hard and corrugated skin,
through the students machin-
anitions, also had its pulp turn hard as tin
(not that tin is so hard, but at least it is rhymin')
anxiously everyone is awaitin'
for it to fall with a din
hitting the ground with a flash go green
that spectators would all have a grin
Alas the famous experiment has failed agin
but what is one to glean
from the humpty dumpty careen
of yet another impish gobleen?

It really is no trick
if one does not fall sick
keeping at it brick by brick
and eventually click,
put together the whole shick
So where's the treat
I can hear students bleat
As at their desks they all have a seat
Trying to achieve the special feat
of making their problem sets, **compleat**

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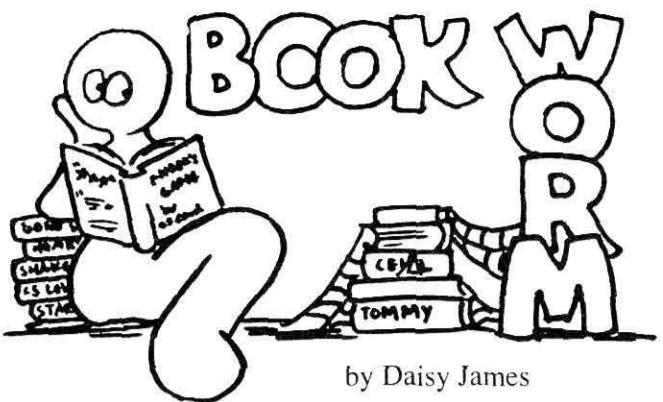
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BANGKOK	DALLAS	HONG KONG	LOS ANGELES	MOSCOW	PARIS	STOCKHOLM	WASHINGTON, D.C.
BOSTON	DÜSSELDORF	JAKARTA	MADRID	MUMBAI	SAN FRANCISCO	SYDNEY	ZÜRICH



by Daisy James

••••• Whoa
••••• Cool
••••• Yeah
•••• Okay
•• Eh
• Ugh

Ribbons

by Laurence Yep

••••

Books about girls who want to be ballerinas must be a staple for the 10-14 range. They tend to the inspiring, with the young heroine overcoming great odds to become a star. Ribbons isn't quite like that.

As far as style goes, Yep is

The girl, Robin, does have the requisite extraordinary talent and love for the art but the actual dancing takes a back seat to a story which is really about family life. Robin is forced to give up dancing lessons because her mother needs the money to bring their grandmother over from Hong Kong. Robin is resentful, especially because the grandmother is not a very sympathetic character. Naturally, they work out their differences, but the book ends on a slightly less hopeful note than you would expect; not everything is left perfect.

obviously an accomplished writer and makes no major missteps, although the mother ends

up coming across as a bit too cruel at times (insisting that the

children give their Christmas

money, their only present, to

helping their grandmother).

The prose does not exactly

sparkle, but it doesn't drag ei-

ther and there is no feeling of

the writer showing off. Overall,

a strong book.

Mrs. Pollifax, Innocent Tourist

by Dorothy Gilman

•••••

I shouldn't like these books so much. They're completely mindless, relying on insane coincidences and a silly world view. Still, I can read one in an afternoon, at a rate of about four times as fast as I can do any of my Hum reading. They're light, engaging books that get your attention and hold onto it.

I'm using the plural because this is the latest in a long series starring Mrs. Pollifax.

She is an elderly widow who, on discovering that she didn't have much left to live for, decided to join the CIA (The Unexpected Mrs. Pollifax). By one of those coincidences she got a job as a courier and began her new career. The last several books, and this one, have not originated with assignments, but rather with old friends or ubiquitous coincidences. That is a fairly poor plot device, but one that you can forgive Gilman for, since none of her stories are really believable. There is too much belief in mysticism, too many moral absolutes for this to be enjoyable without a healthy suspension of disbelief.

There are a lot of spy novels on the market, and most of them are pretty much alike. What sets this apart from them is not so much the unusual protagonist but rather Gilman's ability as a writer. She does not pile on the adjectives or drown the story in suspense but tells it in a charming, clear fashion.

PUMPKIN
CONTINUED FROM PAGE 1

it to flash." The flash was described as "an extremely bright spot of blue light, centered exactly on the pumpkin and about five feet in diameter."

In hopes of producing another blue flash, Dabney House President Geoff Matters, Social Vice President Monty Fowlkes and other Darbs have kept the pumpkins submerged in LN (provided by the Deans' Office) for several days.

"It's a delicate experiment and we've had difficulty getting a blue flash the last few years," said Matters. "I don't think the pumpkins were cooled long enough, and their hulls were too thick. This year, though, you'd better bring your sunglasses."

A relatively new part of the tradition is chanting, "Throw Rich next!" Rich is Rich Zitola, an undergraduate who was very involved with the pumpkin drop. The year after he graduated, Darbs threw a pumpkin-headed dummy off the roof in response to the chant. The dummy fooled at least one graduate student, now Dabney's RA.

"I thought it was a person," said Byron Philhour. Philhour hints that he will not be attending this year's Pumpkin Drop.

The Pumpkin Drop was the first of Dabney's pumpkin experiments. Several years before the pumpkin drop began, Darbs used a vacuum pump to evacuate the inner chambers of several pumpkins, and then plugged the hole with gum. The result? Most pumpkins were either too heavy or too fragile, but several of them actually floated.

SAMSON

CONTINUED FROM PAGE 2

20% a year. That's a lot! If you way overspend, you might find yourself quitting Caltech to get a job so you can pay off your bills. Be careful.

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These are the results for the 1997 California Tech poll. We think. Actually, they don't look like results at all. It looks like someone just picked some polls at random and typed the answers in. I mean, you'd think that will all the people saying that JJ LaBelle would be doing that Nobel thing, she would've gotten a mention in the category. So we'll just call these "preliminary results" and give you the full results next week. We promise. Cross our fingers, er, hearts.

The Polling Committee

Food

Thai

best: Prez Thai, Rice noodles w/ onions
worst: Sasoned cilantro balls

Chinese

best: Dim Sum
worst: Dim Sum

Food service entree

best: chinese, anything at Avery, spaghetti
worst: thai, hamsters

Food service ice

cream flavor
best: sweet
worst: sour

Coffeehouse shake

best: edible
worst: putrid

Hamburger

best: McDonalds, Wendy's
worst: Burger King (2)

Italian

best: Pasta
worst: Pizza

Mexican

best: Quesadillae
worst: Chimichangas

Pizza

best: Fraedo's, Anchovies
worst: Pineapple

Sandwiches

best: Subway, Dagwood
worst: Prison

Caffeinated beverage

best: Pepsi, Cream Soda, coffee black
worst: Mountain Dew, coffee white

Shopping

Best music store: Tower, Needle in a Haystack
Best used clothing store: Goodwill, Aardvark's

POLL RESULTS

Entertainment

Local band

best: Snotty Scotty & Hankies, Stinging Mosquito
worst: Stale Urine (2)

Movie theater

best: AMC
worst: ASCIT Movies

Radio station

best: KROQ, 96., KAOS
worst: KPWR, KRTH, KUNT

Romantic composer

best: Wagner, Beethoven
worst: Wagner, Hayden

Superhero

best: Spawn, Dean Jean Paul Revel, Sandman
worst: Steel

Tech feature

best: Dilbert, In this issue
worst: Samson, DC

T.V. show

best: Babylon 5 (2), South Park
worst: Babylon 5

Best use for the cheesy Flubber mouse pad currently in Tech OUT box
prize for poll; make it disappear

Caltech

Best way to flick

Games

Most sleep-inducing classroom

070 Moore, 22 Gates (2)

Professor most likely to pop the Nobel action

some non teaching dude

Class

best: Ge1, of 97
worst: Chem 3a, of 99

On-campus building (architecture)

nicest: south houses(2), Beckman
ugliest: Keck (3), north houses

Toilet

best: women's lounge in Gates, L.D. in Ricketts

worst: non existant 1st floor sloan, Jorgensen

Comic you would most like to see in the Tech

Dilbert in order, Dilbert

Textbook

best: Tommy
worst: Mechanical Universe

Best hair color (and person it was on)

Rainbow, Josh

House T-shirt

best: Ruddock, Modern Art Symposium (Blacker). Ricketts

worst: Blacker, Fleming Jersey (2)

Best excuse for not graduating in 4 years

Spaz

"I wasn't here."

Worst Speller on the California Tech Staff

Erik Steed

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See us on the web at <www.careermosaic.com/cm/lockheed/lockheed68.html>

Information Session

Monday, November 3rd • 4:00pm - 6:00pm

Student Activity Center • Room 13

Food and beverages will be provided.

On-campus interviews will be conducted for various technical and engineering opportunities on

Tuesday, November 4th.

Please contact Career Services to arrange for an interview time.

If you are unable to meet with us, please forward your resume, to: Lockheed Martin, Tactical Defense Systems, Attn: Human Resources Dept. CAT, P.O. Box 85, M/S1013, Litchfield Park, AZ 85340-0085. Fax: (602) 925-7568. Email: hr.tdsaz@lmco.com

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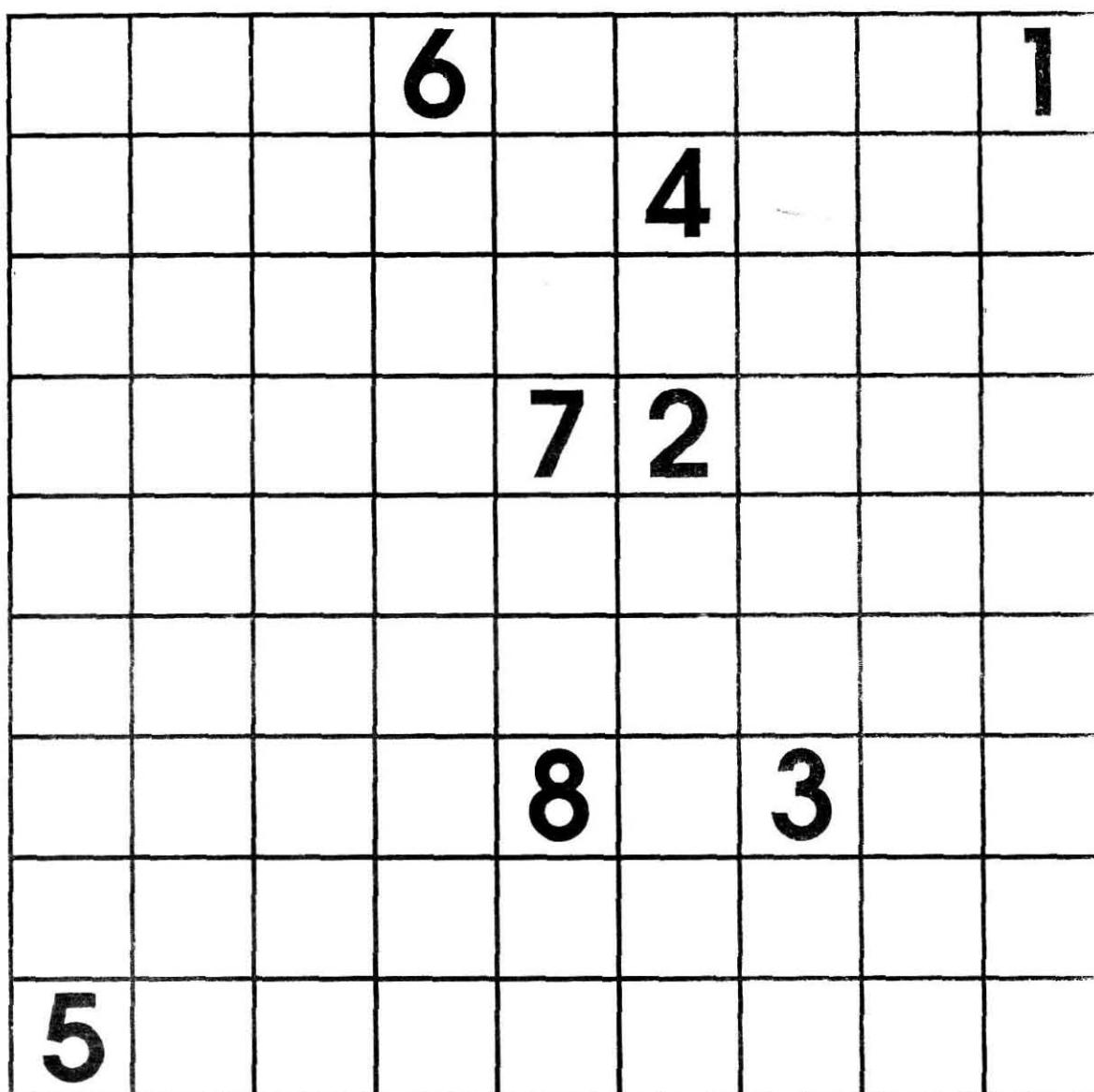
The
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SPORTS

PUZZLE

by Wei-Hua Huang
Difficulty: Medium 

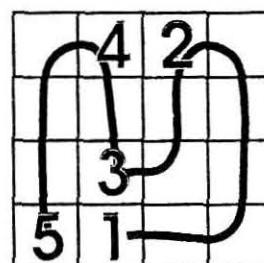
Starting at the 1, draw one continuous curve that goes through each number in increasing order and ends at the 8. The curve may not enter a grid square twice, nor may it go out of the grid or pass through a diagonal intersection of grid squares (that is, no diagonal moves are allowed).



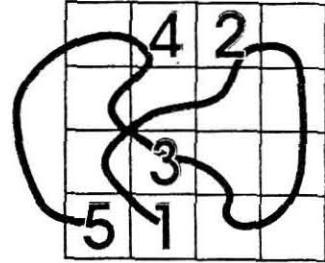
For example:

	4	2
	3	

This is okay...



This is not.



Answer to Last Puzzle:

1	5	8	9	4	7	3	2	6
2	7	3	6	8	4	1	5	9
4	6	9	7	1	2	5	3	8
8	3	2	5	7	1	9	6	4
3	1	5	4	9	6	2	8	7
5	9	6	2	3	8	7	4	1
7	8	4	1	2	3	6	9	5
6	2	1	8	5	9	4	7	3
9	4	7	3	6	5	8	1	2

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Announcements

* Caltech is sponsoring a two-day **blood drive and bone marrow donor program** which will be held in the Winnett Student Lounge on Wednesday, November 12, 1997 between 10:15 a.m. and 3:30 p.m., and on Thursday, November 13, 1997 between 12:15 p.m. and 5:30 p.m. Please contact Vilia Zmuidzinas via e-mail at hrdvez@hr.caltech.edu or at x6001 for an appointment. Walk-ins are also welcome.

* The **Caltech Women's Center** is in need of work/study students, one person to do computer and web work and two for general office work (mornings and/or noontime). Salaries are competitive with other campus offices. Call Beverly at x3221 and make an appointment for an interview.

* The **Gay/Lesbian/Bisexual Discussion Group** meets on the first and third Tuesdays of each month from 7:30 pm until 10pm in the Health Center lounge. This is a confidential meeting and does not imply anything about a person's sexual orientation—only that s/he is willing to be supportive in this setting. The group usually discusses a particular relevant topic and then moves on to the general discussion. This week seismologist Kate Hutton and staff scientist Shelley Diamond will talk on the interaction of sexual orientation and becoming and being a scientist. Refreshments will be served. If you would like more information, please call x8331.

Caltech Ballroom Dance Club is offering Beginner/Intermediate **West Coast Swing** classes every Thursday until November 6th, taught by an instructor from Let's Dance LA. Costs \$25 for the five weeks. Classes are 7:30 pm to 9 pm with refreshments and open dance time following each session. For more information, see our posters and our web page: <http://www.caltech.edu/~ballroom>.

The **Coffeehouse** is looking for waiters. We are open M-F from 9 pm to 2 am and Sat/Sun from 8 pm to 2 am. No work/study required. Please contact Gina Armas by e-mail to apply, gina@cco.

Sparrowgrass Poetry Forum, Inc. is offering a grand prize of \$500 in its new **Poetry Contest**. The contest is free and open to everyone, one poem per poet. Deadline is November 30, 1997. Send entries to Sparrowgrass Poetry Forum, Dept. LM, 609 Main St., P.O. Box 193, Sisterville, WV, 26175. Poets may also submit poems electronically at <http://www.tinplace.com/sparrow> or by e-mail, Sistersv@aol.com.

Events

* The Coleman Chamber Concert Series is featuring the **Ysaye Quartet with Janos Starker, cello**, in Beckman Auditorium at 3:30 pm on November 2nd. A limited number of free tickets are available for Caltech students.

* "A Conversation with Beverly Sills," the sixth annual James Michelin

Mints

* denotes a new announcement.

Distinguished Visitor's Lecture, will take place in Beckman Auditorium on November 4th, at 8 pm. Admission is free.

* "Gamma Ray Bursts: Dying Cries from the Deep Universe" will be discussed by Professor Shrinivas Kulkarni on November 5th at 8 pm in Beckman Auditorium, as part of the Ernest C. Watson Caltech Lecture Series. Admission is free.

* There will be a special screening of **Flammen im Paradies**, directed by Markus Imhoof, on November 5 in Baxter Lecture Hall at 8 pm. There will be an introduction, and a discussion afterward, with the director in attendance. Admission is free.

* **Einstein in his Cultural Context** will be presented by Dr. Gerald Holton, Professor of Physics and History of Science, EM at Harvard University on November 6, 1997 at 4:00 pm in Baxter Lecture Hall. Admission is free, and refreshments will be served.

The **Distinguished Speaker Series** of Southern California is moving into its second season. The events will be held at the Pasadena Civic Auditorium on eight different dates, at 8 pm. On November 6th, Ann Richards, the 45th governor of Texas, will be the first speaker, followed by Tommy Lasorda on December 11th, Colin Powell on January 21st, 1998, Dominick Dunne on February 26th, Elizabeth Dole on March 12th, Jean-Michael Cousteau on April 8th, and Maya Angelou on May 13th and June 10th. For more information, contact (800) 508-9301.

Knott's Scary Farm is celebrating "25 Years of Fears" on weekends, 7 pm until 2 am between October 3rd and November 1st, with rides, shows, mazes, and themed "scare zones." Advance ticket purchases are recommended, as evenings frequently sell out. For more information, call (714) 220-5200, or visit their web page at <http://www.halloweenhaunt.com>.

Shipwreck '97, the Queen Mary's annual Halloween extravaganza, will take place from 7 pm to midnight on weekends from October 10th to November 1st. This event features a tour of the allegedly haunted ship and dancing deejayed by several LA-area radio personalities. On October 31st, there will also be a costume contest. Tickets are \$13 per person. For more information, contact (562) 435-3511, or visit their web page, <http://www.queenmary.com>.

For most Caltech events listed, further information can be obtained by calling 395-4652, or (888) 2-CALTECH, or by accessing the Caltech website.

Fellowships and Scholarships

Paper applications for the **NSF Graduate Fellowships** are available from the Fellowships Advising Office

in Room 25 in the SAC. Applications can also be accessed, completed, and submitted through the web. The NSF FastLane Graduate Fellowship Program's web page is located at <http://www.fastlane.nsf.gov>. Both the paper and FastLane system include the **Women in Engineering and Computer and Information Science Awards**. Note that U.S. citizenship or permanent residence status is required. The application deadline is November 6, 1997.

The **Howard Hughes Predoctoral Fellowships** in Biological Sciences, for seniors and first year graduate students, have a November 12th application deadline. Complete applications and instructions can be found on the web at <http://fellowships.nas.edu>.

The **John Gyles Education Fund** is offering financial assistance to students who are Canadian or U.S. Citizens. A minimum G.P.A. of 2.7 is required for eligibility. Criteria other than academic ability and financial need are considered in the selection process. Selected students will receive up to \$3,000. To receive an application, send a stamped (U.S. \$.32), self-addressed, No. 10 envelope to: The John Gyles Education Fund, Attention: R. James Cougle, Administrator, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4. The remaining filing date for mailing applications in 1997 is November 15.

The **Chateaubriand Fellowship Program**, 1998-9, for graduate students in science and engineering, interested in working in French university. For more information, write to The Embassy of France, Office for Science and Technology, Chateaubriand Fellowship Program, 4101 Reservoir Road, NW, Washington, DC 20007-2176, or see their web page at <http://www.chateaubriand.amb-wash.fr>. Applications are due December 1, 1997.

* The National Science Foundation (NSF), in conjunction with the National Institutes of Health (NIH) and the Agricultural Research Service (ARS), welcomes applications to the **1998 Summer Programs in Japan and Korea**. All qualified graduate students in science and engineering, including the biomedical, agricultural, and social sciences, are urged to apply. The postmark deadline for applications is December 1, 1997. For more information on the Summer Programs, including eligibility requirements, program descriptions, and application materials, access the NSF/Tokyo Homepage at <http://www.twics.com/~nsftokyo/summer98.html>.

The **Josephine de Kármán Fellowship Trust** is pleased to announce the availability of ten fellowships in the amount of \$7,000 for 1998-99. All studies must be carried out within the United States and expended within the United States. Fellowships are open to students entering their senior undergraduate year and graduate students entering the terminal year of a Ph.D.

program in Fall 1998. For application information write to: Fellowship Committee, Attention: Judy McLain, Secretary, Josephine de Kármán Fellowship Trust, P.O. Box 3389, San Dimas, CA 91773, or visit the Financial Aid Office. Applications must be postmarked no later than January 31, 1998.

The **American Society of Naval Engineers** is offering \$2,000 undergraduate scholarships and \$3,000 graduate scholarships for the academic year 1998-99 to students who are interested in naval engineering. Applicants must be U.S. Citizens, must demonstrate a genuine interest in a career in naval engineering, and must be applying for either their last year as an undergraduate or co-op undergraduate program, or one year of graduate study leading to a designated degree at an accredited college or university. The deadline to submit applications is February 15, 1998.

The **Graduate Fellowship for Women and Minorities in the Physical Sciences**, the National Physical Sciences Consortium offers awards to graduating seniors who are female or a member of a minority group for Ph.D. level study in Astronomy, Chemistry, Computer Science, Geology, Material Science, Mathematical Sciences, Physics and subdisciplines of these fields. E-mail npsc@nmsu.edu or call (800) 952-4118 to request an application which is provided in diskette format.

The **Asian/Pacific American Association for Advancement, Inc. (4A)** is accepting applications for their **4A San Francisco Bay Area Scholarship Program**.

4A will be selecting three recipients who will each receive a \$1,000 scholarship. Eligible students must be Asian/Pacific, U.S. Citizens or permanent residents, and must be enrolled full-time as undergraduate or graduate student. Applications will be evaluated based on their scholastic discipline, personal achievement, and community involvement. AT&T, Lucent Technologies, and NCR employees and their children are ineligible to apply. Applications are due April 15, 1998.

The Sunkyong Group of Korea and LeaderShape Inc. are sponsoring the **"Global Leaders of Tomorrow" essay contest**. Entrants must be undergraduate or graduate students at the time their entries are submitted. Essays may be written from one of four perspectives: Business, Government/Law, Science, or Media/Communications. Three winners will be selected in each of these four categories. First prize (1 per category) is \$2,500 plus a one week trip to Korea. Second prize (1 per category) is \$500 plus one week at a LeaderShape training program. Third prize (1 per category) is \$500. The deadline for entries is April 15, 1998.

The **ACIL Scholarship Alliance** is offering scholarships for students majoring in the physical sciences: physics, chemistry, engineering, geology, biology, or environmental science. Awards are based on academic performance, career goals, leadership, and financial

need, and are typically \$1,000-\$2,000. To apply you must be a junior or senior in undergraduate study, or a graduate student. Applications and all supporting documents are due April 15, 1998.

The **American Women's Club in Sweden** will be awarding a travel grant for study and research in Sweden. To qualify you must be a woman, age 18 or over and an American citizen. You must also be accepted for a period of study or research at a Swedish educational institution or agency and show evidence of financial need. The completed application and all supporting documents must be received by April 15, 1998.

The Jewish Vocational Service is accepting applications for scholarships from the **Jewish Community Scholarship Fund**. The scholarships are designed to provide financial assistance to Jewish students who are legal residents of Los Angeles County, attending college on a full-time basis. Applicants must have a 2.5 minimum G.P.A., must be a sophomore or higher by September 1997, and must be able to document significant financial need. The deadline for submission of completed applications is April 15, 1998.

The **American Electroplaters and Surface Finishers Society** is offering scholarships to undergraduate juniors and seniors and graduate students who are interested in careers in the electroplating and surface finishing industry. Undergraduates must be full-time and must be majoring in metallurgy, metallurgical engineering, materials science or engineering, chemistry, chemical engineering, or environmental engineering. Applications must be submitted by April 15, 1998.

The **Jewish Family and Children's Services** offers financial support for Jewish individuals and their families. 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.

Graduating seniors with at least a 3.6 GPA should consider applying for the **Churchill Fellowships** which provide a year of graduate study at Churchill College, Cambridge University. Students are able to earn a degree, certificate or diploma during their tenure at Cambridge. Applicants can come from any area of engineering, mathematics, physical, or natural sciences. The award covers tuition, fees and a living allowance. A travel grant is also available to cover airfare to England. Applicants must submit a two to four page essay. For more information contact the Fellowships Office.

Note that on all the fellowships listed above you can get help with your essays or clarification of questions from the Fellowships Office. For info, please contact Lauren Stolper at lauren_stolper@starbase1.caltech.edu. To make an appointment, call x2150.

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