

## 2012 ring design allegedly leaked

### Class of 2012 RingComm cannot confirm authenticity

By Jeff Guo  
EDITOR IN CHIEF

On Sunday, alleged pictures of the Class of 2012 ring design were sent to three dormitory mailing lists from a Gmail account impersonating the Class of 2012 Ring Committee. Members of the actual Ring Committee said they did not send the e-mail, but refused to confirm or deny if the pictures were genuine.

The e-mail was sent from [mit2012ringcomm@gmail.com](mailto:mit2012ringcomm@gmail.com), and went to the Burton Conner, East Campus, and Senior House discussion lists around 1 p.m. on Sunday afternoon. It had the subject line "MIT 2012 Ringcomm ONLINE PREMIERE," and claimed that the committee was revealing the design "slightly differently" this year. "Instead of a large event at Kresge, we've decided to go online," the message read. The e-mail included six links to images that depict the ring's bezel, skylines, shanks and hacker's map.

The pictures are rendered in the same style as previous years' designs. A former Ring Committee member, who asked to remain anonymous, speculated that the pictures could be drafts. "[The ring makers] make a lot of designs that the ring committee members pass around. We look at them, we circle things, we talk about what we don't like," he said. "When it gets to like the last three designs, they look like the final."

The former Ring Committee member said he doubted the pictures showed the final design. He



The **j** vector on the alleged 2012 ring design goes too far down the side of the ring, a former committee member said.

pointed out that in the picture of the Boston skyline, the engraving of the unit vectors extends too far down the side of the ring. "The actual machines won't engrave that low," he said.

If the pictures are genuine, this would be the second time in the past four years that the class ring design was leaked ahead of Ring Premiere. The Class of 2009 ring design was accidentally published on Athena a month before the premiere, raising questions about how closely the Ring Committee guards the design's secrecy.

The class of 2012 Ring Committee would only confirm that the pictures were sent by an imposter. Two hours after the pictures were sent, RingComm chair Graham W. van Schaik announced on the Class of 2012 mailing list that Ring Premiere will still take place on Friday.

Though there has been some vitriol on the dorm mailing lists, the

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## Paul Krugman talks money

### Nobel Laureate warns of second slump



NICHOLAS J. CHORNAY

Princeton Economics Professor Paul Krugman PhD '77 spoke about the economic crisis in 32-123 on Friday. The talk, sponsored by the Undergraduate Economic Association, filled the lecture hall 45 minutes before it began.

By Jessica J. Pourian  
STAFF REPORTER

On Friday, February 5th, Princeton professor Paul Krugman PhD '77, 2008 Nobel Laureate in Economics, New York Times opinion columnist and former MIT professor spoke about the economic crisis, comparing it to the Great Depression.

His talk, planned by the Undergraduate Economics Association (UEA) and the Department of Economics, completely filled 32-123 and had several hundred people waiting outside.

The theme for the lecture was "What Have We Learned, If Anything?," citing how America once

again found itself in a situation similar to the Great Depression and referencing the mistakes the United States has made within the past few years.

The financial crisis of 2008, Krugman said, was strikingly similar in its progression to the events that led to the Great Depression 80 years ago. "We ended up having a teched-up, 21st century version of what happened in 1930," he said.

Krugman discussed the "Mistake of 1937" as the reason for the length of the Great Depression. He said President Roosevelt was convinced that the economy had recovered from the first financial crash, and withdrew government support too soon, resulting in a se-

vere recession.

People today, Krugman argued, forgot that lesson and thought they were safe. The extra banking regulation enacted after the Depression lulled people onto a false sense of security.

Krugman also accused people of not taking the recession seriously enough.

"The actual slump has not been as bad as the Great Depression," he said, but there has since been "some self-congratulation about that, probably excessive." He said that the United States is not yet out of the recession.

Krugman argued that the rea-

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### IN SHORT

Sex toy giveaway entries are due to [cl@tech.mit.edu](mailto:cl@tech.mit.edu) today by 5 p.m. Tell us why you deserve a sex toy for Valentine's Day!

Proximity and mag stripe card readers across campus have been malfunctioning since yesterday. The security office declined to comment until this "morning at the earliest."

A Haiti Relief Diversity Dinner is tomorrow at 5:30 p.m. in Walker Memorial's Morss Hall. Although the dinner is free, donations are highly encouraged, and all proceeds will go towards Haiti Relief Efforts.

The Class of 2012 Ring Premiere is this Friday at 8 p.m. in Kresge Auditorium. 2012s, come early to ensure you get as much free stuff as possible — doors open at 7:30 p.m.

### STUDENT SPOTLIGHT

## MIT debaters are latest North American champions

By Pearle Lipinski  
NEWS EDITOR

Who ever said that engineers can't communicate? MIT Debate Team members and Course VI majors Adam Goldstein '10 and Bill Magnuson '09 took top honors at the North American Debating Championships — regarded as the most prestigious debate tournament in North America — held January 29-31 at York University in Toronto, Ontario, by finishing ahead of 79 other two-person teams from around the continent. Goldstein also earned honors as an individual performer in the preliminary rounds of the tournament, ranking as the top United States speaker and fourth overall speaker for his performance.

Magnuson and Goldstein finished

Debate, Page 10



WILLIAM YEE—THE TECH

Adam Goldstein '10 (pictured) and his partner Bill Magnuson '09 defeated 79 other teams to win the North American Debate Championships, held Jan. 29-31 in Toronto, Canada.

### IN MEMORY OF

## Carl Kaysen

Twenty years ago, as the crumbling of the Berlin Wall signaled the end of the Cold War, Carl Kaysen wrote an essay whose title asked: "Is War Obsolete?" Coming from someone else, the question might have seemed rhetorical or whimsical, but Dr. Kaysen's career brought to his musings the force of history.

He was President John F. Kennedy's personal representative to talks that resulted in the 1963 signing of the Partial Test Ban Treaty to prevent nuclear bomb tests in the atmosphere, underwater, and outer space. He succeeded J. Robert Oppenheimer, who directed the Manhattan Project, as director of the Institute for Advanced Study in Princeton, N.J.

John Kenneth Galbraith, the noted economist who died in 2006, once called Dr. Kaysen "the most widely read, the most widely informed man I know."

"He was a very wise man, one of Kennedy's wisest counselors," said Theodore C. Sorensen,

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### SAINTS WIN THE SUPERBOWL, OH MANNING.

Defense clutch play saves the day for New Orleans. **SPO, p. 12**

### VARIOUS STATES OF UNDRESS

Relationships are so overrated. An ode to single ladies everywhere. **CL, p. 6**

### BROUHAHA RHYTHM

Why old-time cartoons should have messed us all up, but didn't. **CL, p. 6**



### BIODIVERSITY TREATS BAMBI AND BACTERIA THE SAME

Just keeping track of the number of species doesn't give the whole picture. **OPN, p. 4**

### UNIFYING THE UNDERGRAD VOICE

Announcing the Undergraduate Presidents' Council **OPN, p. 4**

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## CORRECTION

Because of an editing error, a news article from May 8, 2009 titled "No Choice for Police" was erroneously re-run as an opinion column in the 2009 Year in Review. The article was about the Burton Third Bombers' concrete "bomb" hack on the Kresge lawn.

## GUEST COLUMN

# One undergraduate voice

*DormCon, IFC, Panhel and UA presidents join together*

By Michael A. Bennie

In the wake of several hasty decisions by the MIT administration such as the decision to convert Green Hall to a sorority residence, a string of hacking incidents that resulted in arrests, the Star Simpson statement, and transparency problems surrounding the preliminary Blue Ribbon Dining Committee report, members of the MIT community began to evaluate the framework of student engagement. Administrators bolstered their communication staff and refined their methods of connecting and involving students in important decisions. Some faculty members began to question the merits and foresight of these decisions. Student leaders asked for more direct methods of communicating with senior members of the administration, which led to the formation of the Task Force of Student Engagement (now the Student Engagement Committee).

Although many looked to members of the administration to resolve the issue of student engagement, issues outside of the administration's control were identified. Chief among them was the lack of a unified student opinion on major student decisions. Administrators complained that while engaging groups that purported to represent students such as the Dormitory Council, the Interfraternity Council, the Panhellenic Association, and the Undergraduate Association, they heard different stories. One group would tell them that students supported the proposal, while another would insist that students vehemently opposed it. This lack of a definitive viewpoint served to hinder student input into important decisions.

Student voice has been routinely fragmented since the dissolution of the Institute Committee in the 1960's. In the subsequent decades, the graduate community has stood behind one government (the Graduate Student Council), while the undergraduates have identified themselves through several governments. Given the rich culture that MIT enjoys and community support for student influence in decision making, it is not surprising that different groups arose to

focus on the variety of policy and programming matters that need to be attended to regularly. This division of labor has allowed a plethora of students to participate in policy decisions and event planning at a level our peers at other universities can only dream of. The undergraduates have only come together in the face of major campus changes, the last occasion over a decade ago with the Unified Student Proposal to confront the transformational recommendations, including housing freshmen on campus, following the Scott Krueger incident.

Although remaining a fractured body allows several benefits, there are many advantages to a centralized group. First and foremost, it would provide the MIT administration with a direct connection to representative student opinion and feedback that

**This group hopes to effectively express the majority opinion of the current undergraduates while keeping in mind the best interest of future students.**

is critical to informed decision making. The final say on many decisions at MIT rests in the hands of our administration and it is important that we provide them a clear picture of the undergraduate viewpoint. Second, the undergraduate governments would benefit from information sharing and coordination on important matters so that there is neither duplication of effort nor is anything critical allowed to fall through the cracks. Finally, it will provide a greater amount of stability and institutional memory to important groups that consistently turn over their membership in the blink of an eye on the time scale of the Institute. It is possible to retain the positive aspects of an efficiently structured system, while still coming together to tackle matters

of great significance to the undergraduates with a unified voice.

With the commencement of another semester at MIT, the presidents of DormCon, IFC, Panhel and the UA have joined together to form the Undergraduate Presidents' Council. This team is not intended to replace any of the governments or have any formal power, but to serve two explicit purposes. The first is to simplify the coordination and expression of the views and desires of the undergraduate student body. This group will also serve to inform and align the efforts of the governments involved. While the existing framework benefits the undergraduates in numerous ways, attention to these two focal points will empower and solidify our perspective at a time when important matters are being decided and plans implemented.

This group hopes to effectively express the majority opinion of the current undergraduates while keeping in mind the best interest of future students. These opinions will take the form of a one-page summary of the issue at hand and represent a consensus view of the undergraduate population. With the release of the Institute-wide Planning Task Force's final report, there is a clear set of recommendations that impact the students and a clear need for undergraduate input on issue prioritization and implementation.

The first three pieces we have assembled address the Institute-wide Planning Task Force recommendation to move Add/Drop date, implementation details surrounding the Institute-wide Planning Task Force recommendation about on-campus summer housing, and the possibility of a spring FSILG recruitment period. The text of these statements can be found at <http://ua.mit.edu/upc>.

If you have an issue you think needs to be brought to the attention of the MIT administration, please send us an e-mail at [upc@mit.edu](mailto:upc@mit.edu).

Michael A. Bennie '10 is the current President of the Undergraduate Association. Column submitted on behalf of the Undergraduate Presidents' Council.

Grad Student Stipends

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## VARIOUS STATES OF UNDRESS

## All my single ladies

By M.

This weekend is Valentine's Day, which is pretty awesome if you're coupled up but kinda sucky if you're single — and especially shitteous if you're a single gal. For single girls, Valentine's Day serves mostly as a reminder of how much we fail at life that we don't have a "special someone" to do cute things for us and buy us flowers and take us to dinner. Can we get Hallmark working on some "You (don't have a dick to) suck" cards that I can buy for myself on the 14th to supplement my romantic evening of watching *Pretty Woman* and feasting on some Chubby Hubby?

Let's step outside of the pity party for a smoke, girlfriend, and put things into perspective: The awesome Valentine's Day that a lot of girls hope for is crap. The romantic dinner more often than not occurs at Olive Garden and the beautiful flowers we envision turn out to be wilting roses bought from a street vendor for a buck or two. Not really what I consider an awesome date, I don't know about you. Which is why I have ceased to feel bad for myself for not having a guy to take me out on Valentine's Day. Instead, I take it as a day to celebrate my singleness.

On Valentine's Day, I like to gather my single friends and go out for dinner. We dress up and pick a fancy restaurant to eat at, the kind of restaurant a guy would never take us to because, let's face it, most guys are cheap as fuck and won't take a girl out

for a \$30 entrée. We get a bottle or two of nice wine, and we toast to being single. Because, really, being single is severely underrated.

There are so many things a single woman doesn't have to deal with! There's no sleeping in a cramped twin XL, nobody hogging the covers, no waking up to smelly dick in the morn-

**...let's face it, most guys are cheap as fuck and won't take a girl out for a \$30 entrée.**

ing, and, best of all, not having to figure out a way to politely refuse sucking on said dick. No need to worry about faking an orgasm when the sex with the otherwise-perfect boyfriend blows. (Single girls have vibrators, which are much more reliable anyway.)

And there's also no need to worry about getting bored of fucking just one man either, because a single girl is getting out there and getting off with different guys, and how can that be boring? (I guess that's another good thing about being single: We get to sleep around without feeling guilty about cheating!) There's no need to be jealous or suspicious that the boyfriend might be secretly getting it on with a girl from his recitation,

no getting upset because he would rather spend his time reading comic books than fucking you, no paranoia that he might leave you for his ex-girlfriend. In fact, there's no fear of getting dumped at all, for there is nobody to dump you.

My wallet seems to prefer me being single, too. When I dated, I would pick up the bill sometimes, especially if I picked a pricey place for us to eat at. My first financial priority (shoes) was relegated to second place when I had a boy in my life, since I am a woman of the 21st century and I like picking up the tab sometimes in the interest of fairness and equality. After a handful of \$90 dinners for two, you start to feel that maybe those funds would be better spent on something else.

As a single girl, I get to buy myself two nice dinners instead of a nice dinner for two, which, in my opinion, is far better. (That, or shoes.)

And let's not forget about what is arguably the best part about being single on Valentine's Day: After stuffing yourself on cheap food at a cheesy place and coming back home feeling tipsy, you don't need to worry about your boyfriend being too full to fuck, or not being able to get it up because he hit the \$4-a-glass wine a bit hard: As long as you have a pair of AA batteries on hand, a vibrator will never let you down.

*M. is a junior in Course 10 and is definitely not opposed to guys asking her out on Valentine's Day, as she loves free meals.*

## BROUHAHA RHYTHM

## The ethical merry-go-round broke down

By Michael T. Lin  
CAMPUS LIFE EDITOR

The other night, I was with some friends and watching a Looney Tunes marathon (3 DVDs from four-disc set, \$3 at the thrift store), when the question arose of why we, one of many generations who grew up on cartoons, aren't more messed up than we are. What went on television when we were young would have today's parents up in arms and at the doorsteps of the production companies before you could say "That's all, folks!"

Don't get me wrong, I love my old cartoons — they're hysterically

**Don't get me wrong, I love my old cartoons, but it's extremely difficult to argue that they're entirely wholesome.**

funny and the short form they represent just isn't what it used to be — but they were hardly wholesome.

For example, in one cartoon, an unnamed cat with a Schadenfreudian attitude regarding succotash is negligently left locked inside for two weeks with a horde of canned tuna as his only source of food. Unfortunately for him, the only can opener in the house is in the possession of a rodent who, for no apparent reason, refuses to let the cat have it.

The whole war that follows involves a cat desperate to feed himself and a mouse cruelly taunting him for his own pleasure. The fact that the cat happens to have access to enough hardware, resourcefulness, and explosive ordnance to blast open a window and escape to the food-rich wilderness but instead applies it to assaulting a door-shaped hole-in-the-wall isn't strictly logical, but that kind of thing seems to make perfect sense when you're eight. The predominant feeling among us grown-up viewers was pity for the poor starving cat, but in an era of cartoon-making where every major production company had their fair share of heroic mouse characters, the whole

affair could be very confusing for a small child.

On the subject of sadism, one finds that quite a few cartoons end with some sort of perpetual process that fades into the distance or a flip-pant perspective on pain and death, like having Tom get the guillotine for following orders with no more mourning than a "c'est la guerre," or Sylvester getting repeatedly zapped along a trolley power line all the way to the horizon. (Cat lovers are apparently a minority in the world of professional animation.)

It's sort of interesting to ponder the potential message — something along the lines of "bad things happen to the bad guy, and it's okay to be cheery about it regardless of the degree." Under more complex analysis, one could probably argue that it's actually a commentary on the nature of war or a statement that persistence of crime equals persistence of punishment — a two-ounce Tweety can't be worth the calories, not to mention pain and suffering, that are regularly invested in attempting his consumption. There's also the occasional ending that is downright questionable in judgment, as in the mass suicide by pistol of several gangster rabbits after inadvertently delaying the hare from winning against the tortoise. And bringing up cultural stereotypes is a completely different wheel of Spanish-speaking cheese.

Of course, cartoons often do and did provide constructive life lessons along with their entertainment value. If nothing else, they gave people with any of a wide range of speech impediments characters to whom they could relate. Stammerers, lispers, mutes, and even the miscellaneous accented or incomprehensible have been represented in some form.

There's also what was declared by we viewers to be perhaps the sweetest animated short of all time, one that involves an enormous dog taking care of an adorable kitten, even risking the wrath of its owner to protect it. See? Even would-be mortal enemies can develop a close familial bond if they try. Who says cartoons are just mindless violence?

Now, if you'll excuse me, I've got some research to do. It may take some time, but I'm going to figure out what hunting season it is if it kills me. Or at least brutally maims me until the next scene, at which point I'll have healed completely and be only moderately irritated.



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# Kaysen was professor emeritus in STS

Kaysen, from Page 1

Kennedy's special counsel and speechwriter.

Dr. Kaysen, a professor emeritus of political economy at the Massachusetts Institute of Technology, died in his sleep Feb. 8 at his home in Cambridge. He was 89. His health had failed after a bad fall in October and a decade of battling spinal stenosis.

In the Kennedy administration, Dr. Kaysen was deputy special assistant for national security affairs, a second-in-command to McGeorge Bundy, the president's national security adviser.

As Kennedy, Bundy, and others spent 13 days and nights of brinkmanship during the Cuban missile crisis, "Carl was essentially in charge of all other White House foreign policy matters during that time," Sorensen said. "The president had complete confidence in him."

Dr. Kaysen's leadership led some in the White House to nickname him the "vice president in charge of the rest of the world." Reflexively modest, he never trumpeted that role.

"He was low-key, never loud, and maybe that's why he is an unsung hero," Sorensen said.

"He received much less publicity and attention compared to other people in Kennedy's White House and inner circle."

Although Dr. Kaysen's career as an economist took him to teaching posts at Harvard and MIT, along with the Institute for Advanced Study, his most lasting contribution may lie in his work for Kennedy while negotiating the Partial Test Ban Treaty.

"I think he was the principal officer in the White House helping to shepherd that through," said Sorensen, who added that he would miss Dr. Kaysen, one of his closest friends.

"He spent his entire life, right up to last week, trying to deflect and change the impulse toward war," said James Carroll, a columnist for the Globe's opinion pages who chronicled some of Dr. Kaysen's contributions in the 2006 book, "House of War: The Pentagon and the Disastrous Rise of American Power."

Dr. Kaysen "played a pivotal role at what is the pivot of the whole story, when Kennedy basically shifted US policy from arms buildup to arms control," Carroll said. "Kaysen was critical in putting in place the arms control regime, which ultimately enabled the Soviet Union and the United States to end the conflict nonviolently."

In his 1990 essay, Dr. Kaysen searched for a way for the world to stop seeing war as inevitable.

"The international system that relies on the national use of force as the ultimate guarantor of security, and the threat of its use as the basis of order, is not the only possible one," he wrote. "To seek a different system with a more secure and a more humane basis for order is no longer the pursuit of an

illusion, but a necessary effort toward a necessary goal."

Born in Philadelphia, Dr. Kaysen graduated in 1940 with a bachelor's degree from the University of Pennsylvania, then did graduate studies at Columbia University while serving on the staff of the National Bureau of Economic Research.

During World War II, Dr. Kaysen served as an intelligence officer, helping pick targets for bombardiers in the Army Air Corps.

"We invented a form of poetry called bomb damage assessment," he told Carroll during interviews for "House of War."

Rather than send planes to bomb civilian areas, Dr. Kaysen and his colleagues sought to specify locations, such as oil refineries, that would hobble the German Army.

After the war, he went to Harvard, where he studied economics and received a master's and a doctorate. He began teaching at Harvard in the mid-1950s and, except for his work with the Kennedy administration, stayed until 1966, when he became head of the Institute for Advanced Study. He resigned from that position in 1976 and joined MIT's faculty.

Dr. Kaysen married Annette Neutra, whom he had known since they sat next to each other in first grade, in 1940. They had two daughters, Susanna of Cambridge and Jesse of Madison, Wis., and moved where his career took them: to Washington, D.C., to London on one study grant and Greece on another.

His wife died in 1990. Four years later, he married Ruth Butler, a writer.

"He did great things, but he was extremely modest," Butler said. "There was a quietness

about his sense of his own life that was really enchanting."

Dr. Kaysen, she added, "had a beautiful voice," the kind that — combined with his intellect — could dominate any room and any discussion, though he usually chose to avoid doing so.

"He was a famously great teacher," said Susanna, who wrote the acclaimed memoir "Girl, Interrupted." "Of course, I never took a class from him, but my whole life was a class from him."

She said her father, who was known for reading a few books at a time, had tastes that ranged from high culture to popular fare. He could quote the German writer Goethe and liked to listen to jazz pianist Fats Waller.

For decades, Dr. Kaysen was a member of the American Academy of Arts and Sciences in Cambridge, and cochaired its Committee on International Security Studies. In 2002, he co-authored "War With Iraq: Costs, Consequences, and Alternatives."

Leslie Berlowitz, CEO of the organization, said with "a very quiet wisdom and a wry, ironic sense of humor," Dr. Kaysen brought "his wealth of experience in arms control and international negotiations to the academy," which became a key area of study.

"He was the soul of calm and kindness," Carroll said of Dr. Kaysen's leadership at the academy. "He was the most unfailingly gracious person, and was profoundly respectful of other people."

Dr. Kaysen also leaves a sister, Flora Penaranda, of Bogot.

A memorial service will be announced.

— Bryan Marquard  
The Boston Globe

# Americans spend lots on communications annually

By Jenna Wortham  
THE NEW YORK TIMES

John Anderson and Sharon Rapoport estimate they spend \$400 a month, or close to \$5,000 a year, keeping their family of four entertained at home. There are the \$30-a-month data plans on their BlackBerry Tour cell phones. The Roanoke, Va., couple's two teenage sons each have \$50 subscriptions for Xbox Live and send thousands of texts each month on their cell phones. DirecTV satellite service, high-speed Internet access and Netflix for movie nights add more.

"We try to be aware of it so it doesn't get out of control," said Anderson, who with his wife founded an advertising agency.

By 2004, the average American spent \$770.95 annually on services like cable television, Internet connectivity and video games, according to data from the Census Bureau. By 2008, that number ballooned more than 17 percent, to \$903. By the end of this year, it is expected to have grown another 10 percent, to \$997.07. Add another \$1,000 or more for cell phone service and the average family is spending as much on entertainment over devices as they are on dining out or buying gasoline.

And those government figures do not take into account entertainment bought through iTunes, or the data plans that are increasingly mandatory for sophisticated smartphones.

For many people, the subscriptions and services for entertainment and communications, which are more often now one and the same, have become necessities of life, on par with electricity and groceries. And for every new device, there seems to be yet another fee.

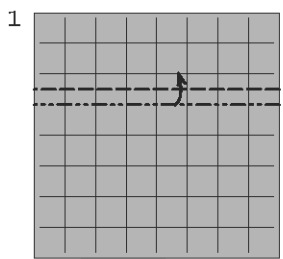
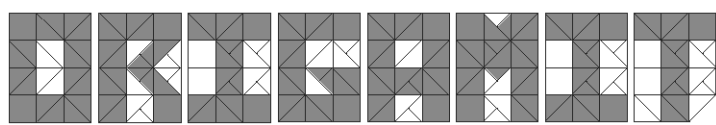
"A subscription model is the perfect drug," said James McQuivey, an analyst with Forrester Research. "People see \$15 per month as a very low amount of money but it quickly adds up."

**APPLY for a Council for the Arts Grant**

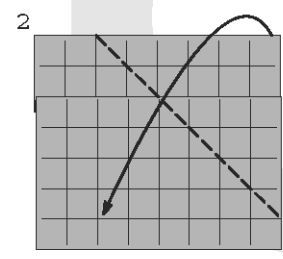
**Application deadline:**  
February 12, 2010

**Contact:**  
Susan Cohen  
cohen@media.mit.edu

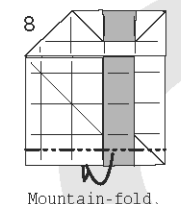
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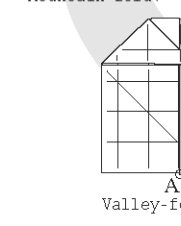
1. Begin with an 8x8 grid. Color side up. Pleat.



2. Valley-fold.



4. Mountain-fold.

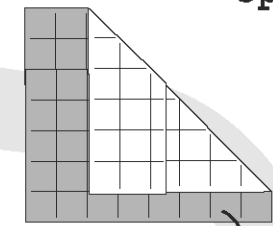


5. Valley-fold.

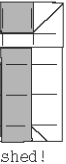
9th Annual Student Origami Competition

Submissions due:

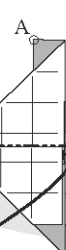
Friday, Feb. 19th  
Room W20-477  
5pm-7pm



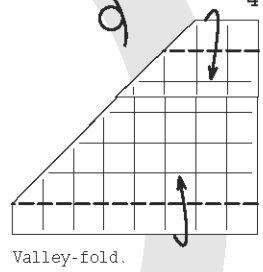
6. Turn-over.



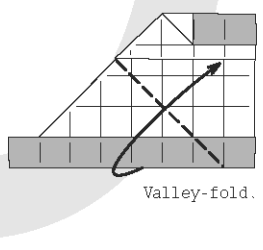
7. 'I' finished! Come to OrigamiMIT to learn 'M' & 'T'.



8. Squash-fold.



9. Valley-fold.



10. Valley-fold.



origami-info@mit.edu  
http://web.mit.edu/origamit/

# Unclear if 'leaked' design is real

Ring, from Page 1

actual impact on campus seems to be slight. Many did not receive the e-mail or did not open it.

Former Class of 2012 president Rishi Dixit said he looked at "a couple" of the pictures, but didn't want to ruin the surprise for himself on Friday.

"Seeing [the pictures] like that doesn't ruin the whole premiere, but it does take away from what [RingComm] is trying to do to build up the suspense," he said.

Dixit said he was disappointed that someone would try to ruin this class tradition. "[RingComm members] go through a lot of trouble to build up the enthusiasm," he said. "Somebody tried to kill that for some unknown reason."

Dixit added that few people he talked to on Monday had actually seen the e-mail. "I was talking to 10 sophomores in the [Burton Corner] lounge, and I was one of two or three," he said.

Emily E. Molina '12, who lives in New House, said she did not receive the e-mail, and did not hear class-

mates talking about it on Monday. She plans to attend Ring Premiere — "mostly for the free stuff," she admitted, "but also to see the design."

Michaela S. LaVan '12, who lives in Senior House and is also the class publicity co-chair, said she got the e-mail with the ring pictures, but didn't read it. She is going to the Ring Premiere. "It seems like a rite of passage that you should go to," she said.

Van Shaik said that RingComm has received many e-mails from students in the past two days, many of them unhappy that the pictures were sent.

"It's a pretty regrettable thing that somebody would pretend to be the 2012 Ring Committee and spread misinformation," he said.

The official revealing of the Class of 2012 ring design will be at the Ring Premiere this Friday at 8 p.m.

The Tech has chosen not to print the full set of ring pictures. We respect that some do not want to see them before Friday. For those who would like to examine the images, we have made them available as "Related Content" under this story on our website.

## Solution to Crossword

from page 7

D	A	T	A	C	A	S	K	I	C	A	N	T	
O	L	E	G	O	T	T	O	C	A	R	E	Y	
O	G	R	E	A	B	A	S	E	N	T	E	R	
M	A	I	N	D	R	A	G	M	A	D	E	D	
T	E	S	T	W	A	X	Y						
M	A	P	V	E	S	P	E	R	P	A	I	L	
I	R	A	Q	I	U	P	S	J	U	L	N	A	
S	H	O	U	L	D	E	R	T	H	E	L	O	A
D	A	L	I	T	S	A	L	O	N	E			
O	T	I	C	C	R	E	A	M	S	F	E	D	
K	L	E	E	R	A	Y	E						
O	F	F	D	A	Y	S	O	D	A	J	E	R	K
H	E	A	R	T	A	L	U	M	E	L	E	A	
M	A	R	A	T	N	A	S	A	C	L	A	N	
S	T	O	W	E	A	P	E	X	T	A	L	E	

## Solution to Sudoku

from page 7

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

# Krugman not optimistic for US economic future

Krugman, from Page 1

son the recession was not as great this year because of the bigger government, not because of the guidance of the Federal Reserve. That "the world didn't end on his watch is not good enough reason to make Ben Bernanke man of the year" Krugman said, jibing about the Federal Reserve Chairman.

He added that the continuing function of Medicare and social security aided in cushioning the crisis.

Still, keeping true to his stereotypical pessimism, Krugman forecasted a grim future over the next few years, especially for students who are just graduating. Statistical estimates, he said, have shown that students who graduate into a bad market will be considerably more worse off than those students who graduate into a good market, even 25 years later. The biggest effect of the recession will be on "young people graduating from college facing a terrible job market."

"Sorry about that, guys," Krugman said to laughs.

Krugman furthermore predicted a second dip in our current recession. After the stimulus reaches its peak during the summer, it will fade out and we will face the same situ-

ation as the "Mistake of 1937," he said.

Krugman largely blamed the political system for how things got so bad so quickly. There is a "real difficulty in getting things through" the political process, he said. Even if a decent policy makes it through the legal system, the political conclusion is that the policy failed if the economy continues to look bad.

Krugman also blamed his profession, saying that economists themselves were confused.

It was "startling to watch economists reinventing 1930s vintage fallacies as if they were fresh insights," he said.

After the 40 minute speech, UEA President Charles Wu '10 and UEA Vice President Manisha Padi '10 presented Krugman with one of the UEA's t-shirts — a green shirt that reads "Economists Do It with Models." Krugman spent the following 25 minutes answering questions from students, ranging in topics from the future of Europe to what students should plan for the future.

Of all of the things at MIT, Krugman said he missed the healthcare the most.

"I thought that I got really good assisted care. I like socialized medicine," he said, laughing.

"Princeton has a fine health

plan, but they just hand you your UnitedHealthcare card and you're on your own."

Afterwards, Krugman had dinner with the faculty as the economics department's guest.

The UEA did not expect the crowds that gathered at Stata on Friday, and Wu noted that the UEA expected only to fill 32-123. The UEA was unsuccessful in securing 10-250 or 26-100 for the talk. Had the talk been 10-250 or 26-100, it would have had to be much later in the day.

32-123 was filled by 3:30, forty five minutes before Krugman began his talk, and at 4:00, nearly 300 people were standing in the main hall.

Rachel Lee '13 and Steve Drap-

cho '13, who were seated in the second row, had arrived around 3:15.

"I read his blogs and I've always wanted to hear him speak," Lee said.

"He's talking about a topic that has a lot of relevance to us right now," Drapcho said.

"He's definitely an authority in this field."

Earlier in the day, nineteen undergraduates and one faculty member sat around and chatted for an hour over cookies with Krugman.

Undergraduates in economics submitted questions to the UEA they wanted to ask Krugman in advance, and UEA officers invited the authors of the top 15 questions to the luncheon. The officers moder-

ated the discussion by starting with the 15 questions and going from there.

"We talked a bit more about specific economics; the main lecture was a little more general," Wu said, saying that they discussed the math of economics more in detail at the luncheon. They spoke at length about international trade theory, the field in which Krugman received his Nobel Prize, as well as some of his academic work.

Krugman's talk is available online at the UEA website, <http://web.mit.edu/uea/www>. More information about the UEA and future speakers can be found at the UEA blog, <http://uea.mit.edu/blog>, or by contacting the UEA at [uea@mit.edu](mailto:uea@mit.edu).

## America's Cup ushers innovations in engineering

By Henry Fountain  
THE NEW YORK TIMES

VALENCIA, SPAIN — USA-17, the challenger for the America's Cup, and Alinghi 5, the defender, may be stripped-down, lean racing machines, built purely for speed. But both are fully loaded.

Loaded, that is, with compressive and tensile stresses in an exquisitely choreographed dance of struts, spars and cables. Made almost entirely of carbon fiber, the enormous multihulls — USA-17 has three hulls, Alinghi 5 two — are about as delicate as a house of cards. If a big enough element were to break, the whole thing could fall apart.

That could be disastrous, considering that the boats, with masts that tower a couple of hundred feet above the water, are capable of speeds of 30 knots or more.

On Monday, however, the boats hardly moved at all, as inconsistent winds forced the postponement of the first race in the best-of-three series on the Mediterranean. The two teams will try again on Wednesday.

If the boats make it through the races relatively intact, it will be a testament to the skill of the sailors — and of the designers and engineers who spent several years building them, more or less on the fly as the two sides quarreled in court over the terms of the race.

"If we break it," said Brad Butterworth, skipper of the Alinghi team (owned by the Swiss biotechnology mogul Ernesto Bertarelli), "it'll be because of some failure of a fitting or a user mistake — something that we've done that's put the boat in a compromising position where it couldn't handle the loads."

The America's Cup has always been a showcase for innovation: the 1895 victor, Defender, for example, used aluminum, steel and bronze in the hull, an unheard-of combination at the time. And sailing in general, and high-level racing in particular, are no strangers to technology. But it has not been used at such an extreme scale before.

The most obvious advance can be seen rising above USA-17, which is owned by Lawrence J. Ellison, president of the software company Oracle. It looks as if someone wrenched a wing off a large jetliner and perched it, tip up, atop a trailer hitch on the boat's middle hull.

Wing sails, as they are called, have been around for years, and one was even used to great advantage in the 1988 America's Cup. But at 223 feet, this one is much bigger than others (and bigger, in fact, than any airplane wing) and more controllable, with nine adjustable flaps.

Like an airplane wing, it provides lift, although largely in a horizontal direction. And like an airplane wing, the slots between the main elements and the flaps add to the lifting power.

But the wing also solves a basic problem of sailing: how to take full advantage of the wind without overturning. The flaps can be adjusted to maximize lift on the wing's lower end, generating a lot of power, and to reduce it up top, generating less heeling, or tipping, force.

"You can shift the center of the force up and down the wing very quickly," said Russell Coutts, chief executive of BMW Oracle. "So when you've got too much power, then you can unload the top of the wing."

The wing designers use the same principles, and much the same software, as airplane designers, said Mike Drummond, the team's design director. (One member of the team also does work for Boeing, though not on wings.)

"You have to understand the aerodynamic principles well and how to apply them," Drummond said. "If you have the skills to design an airplane, you have the skills to design a yacht. Now we could have a good crack at a windmill."

Load-shifting can be done with more traditional sails, too, by changing their shape, which is accomplished in part by having a flexible mast. But even with technology, shape-changing is difficult. It is easier with a solid wing.



ERIC D. SCHMIEDL—THE TECH

Satirizing MIT's newest major, biological engineering, hackers representing "Stepford Labs" at the MIT Department of Biological Engineering installed a display case full of "enhanced" body parts in MIT's Infinite Corridor on Saturday.

## It's Election Season at the Coop, now!

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## Debaters win big

Debate, from Page 1

first after competing in six preliminary rounds and four elimination rounds. Fellow MIT debate team members Shireen Rudina '13 and Julia Boortz '12, both first year collegiate debaters, took 39th at the tournament, placing in the top half of competing teams.

Magnuson and Goldstein debated such motions as "This house believes children born with organs for both sexes should not have gender selective surgery to eliminate one set of organs until the child is of sufficient age to make the decision for him or herself" and "This house believes that corporations should be allowed to spend money on political campaigns". Magnuson noted that most debates center around politics, international relations, law, or ethics, and rarely around science and engineering.

The final motion which Magnuson and Goldstein debated for ultimate victory was "This house supports Google withdrawing from China."

"Given that both Adam and I are Course VI and I work for Google, this motion could not have been better for us," Magnuson said.

This was neither Goldstein's nor Magnuson's first time at the championship. Both attended as a team last year, where they made it to the quarterfinals. Goldstein had attended in two other previous years as a member of two different MIT debate pairs.

Debate season is not yet over, said Goldstein, and the team has tournaments at various colleges until the conclusion of term. The most notable competition the team is preparing for is the national championships at Swarthmore College in April.

Since Magnuson graduated with his Masters of Engineering this January, Goldstein will be teamed with Kathleen Clark-Adams '10 — the second ranked debate speaker in the country — at Nationals. Sharmin Karim '10 has also qualified for the tournament by performing well at other tournaments during the season, and Goldstein hopes that more will qualify in the coming weeks.

Goldstein and Magnuson began debating as a team in October 2008, although both had been on the MIT debate team as members of other pairs before then, and Magnuson had participated in competitive debate in high school.

Goldstein plans on staying involved in debate as a judge and possibly as a coach beyond his graduation.

"I don't think I'm going to coach immediately, but there's a strong alumni connection both with MIT and the American Parliamentary Debate Association (the debate league the MIT Debate Team is a member of), so that means I am likely to go out and judge," he said.

Magnuson plans to continue involvement with the MIT Debate team in the future, helping with the annual MIT tournament and assisting with judging at tournaments for MIT.

All member schools of the American Parliamentary Debate Association and Canadian University Society for Intercollegiate Debate, two collegiate debate organizations in North America, select up to four teams to compete in the championships. The debate style is the North American parliamentary style, where the two teams debate against each other. The "affirmative" side represents a "government team," consisting of a prime minister and a government member. The other team assumes the role of the "opposition" side, acting as first and second opposition members. The debate topics are pre-selected before each round, and debaters are only presented the arguments fifteen minutes before the debate begins. Depending on the role each debater plays, he or she is given from four to seven minutes to speak.

## THE VAGINA MONOLOGUES

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FEB 14, 2PM

32-123

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## SPORTS SHORTS

### Openweight crew joins patriot league bowling conference

DAPER announced Friday the addition of MIT to the Patriot League as an associate member in women's crew. The Engineers will begin competing in the conference during the 2010 campaign, including the Patriot League Rowing Championship in April.



The Engineers join full-time Patriot League members Bucknell University, Colgate University, the College of Holy Cross, Lehigh University and the United States Naval Academy. Though the Engineers have been competing at the NCAA Division I level since 2001, they currently are not in an NCAA-recognized conference. Joining the Patriot League finally gives them a chance to compete in the NCAA National Championship, since the conference winners get automatic bids.

"Becoming an associate member of the Patriot League is an honor — an incredible opportunity to race very fast crews, and continue to move our program to a new level in Division I rowing," Coach Holly Metcalf said.

"The team is looking forward to joining a conference that complements both our academic and athletic commitments," said junior co-captain Jenna R. Sternberg '11. "It will provide us with a challenging competitive opportunity and the possibility of qualifying for the national championship is particularly exciting."

### Wellesley rallies past MIT, 60-51

A 20-5 run that spanned 10 minutes in the second half helped propel Wellesley College to a 60-51 win over MIT in women's basketball on Saturday.



The teams alternated scoring streaks. MIT jumped out to a 9-2 edge then Wellesley evened the contest at 16. A few minutes later, Wellesley went on a 7-2 spurt, as back-to-back layups from Becca Kimball gave her squad its first lead of the game (24-23) with 3:48 left in the half. The Blue added a layup two minutes later, but Aparna A. Sud '13's three-pointer tied the game at 26. Wellesley's Robyn Burleson responded with a tray of her own before a layup by Kristen E. Whaley '11 brought MIT within one (29-28) at the half.

The Engineers opened the second half with an 11-5 run for a 39-34 advantage at the 12:23 mark. Following two minutes of scoreless play, the Blue mounted its pivotal run that was ignited by six consecutive points from KD Stearns to give Wellesley a 54-44 advantage with 2:59 remaining in regulation. MIT narrowed the gap to six (55-49) on a three-pointer by Lauren S. Burton '13 and a coast-to-coast layup from Lauren N. Simmons '10 with 36 seconds on the clock. This was as close as it would get as the Blue converted three out of their next four shots at the free-throw line. Each side traded layups during the final 24 seconds to cap the scoring.

Burton finished with 10 points and two steals. Stephanie D. Cooke '13 hauled in a game-high 10 boards to go along with two steals. Simmons dished out a career-high four assists while Whaley contributed eight points.

MIT will return to action Wednesday, hosting Wheaton College at 8 p.m.

## SCOREBOARD

Women's Basketball	
<b>Saturday, 2/6</b>	
vs. Wellesley College	L 60-51
Men's Volleyball	
<b>Saturday, 2/6</b>	
vs. Vassar College	W 3-1
vs. Stevens Institute of Technology	L 3-0
Men's Track and Field	
<b>Saturday, 2/6</b>	
vs. Williams and Coast Guard	1st of 3
Women's Track and Field	
<b>Saturday, 2/6</b>	
vs. Williams and Coast Guard	2nd of 3

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DAVID CHEN—THE TECH

Lauren S. Burton '13 squares off against Wellesley's defense in the women's basketball game on Saturday. The Engineers lost a close game after a second-half surge from the Wellesley Blue.

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MIT Office of Minority Education

### Tutors and Facilitators Wanted to Assist Undergraduates in Mastering Course Concepts

#### Competitive Salaries Offered

##### ELIGIBILITY

- MIT Undergraduates who have earned an A, or Pass with unofficial A, in the course to be assigned
- MIT Graduate students in the Department that offers the course
- MIT Research Scientists

##### DUTIES

- Provide tutoring through the Tutorial Services Room (TSR). Headquartered in Room 12-124, the TSR offers small group and 1-on-1 tutoring for any MIT student upon request and maintains a resource of bibles for many MIT undergraduate courses.

AND/OR

- Serve as a facilitator for Seminar XL, which is a collaborative undergraduate learning experience in which groups of 4-6 students meet for 90 minutes twice per week to share their understanding of course concepts and problem-solving methods. First-year students can receive course credit. The facilitator serves to critique the discussions.

##### SALARY

\$13/hour Undergraduates; \$15/hour Graduate Students  
Negotiable, Research Scientists

##### CONTACT

For more information, contact the Office of Minority Education, Room 4-113, (617) 253-5010, [web.mit.edu/ome/](http://web.mit.edu/ome/).

# Saints beat Colts 37-17 for their first Super Bowl title

By David Zhu  
SPORTS EDITOR

The New Orleans Saints upset the Indianapolis Colts 31-17 in Super Bowl XLIV in Miami on Sunday night. Although the game wasn't exactly the high-scoring shootout between two of the best offenses in the NFL everyone had anticipated, it was nonetheless filled with back-and-forth action, gutsy calls, and clutch plays.

New Orleans, playing in front of a crowd consisting of mostly Saints fans, won the coin toss and elected to receive the kickoff, marking the thirteenth consecutive year in which the team from the NFC has won the toss. The CBS commentator thoughtfully pointed out the odds of this combination happening was under 1 in 8000 — as if the chances of the Colts winning the toss were any lower.

The first half was a battle of ball control and time-of-possession, and the Colts dominated early. After the Saints went three-and-out on their opening drive, Peyton Manning and company took control, jumping out to a 10-0 lead in the first quarter — one in which Indianapolis had the ball for nearly eleven minutes and the Saints only ran ten plays. New Orleans seemed out-of-sync (one pass intended for Marques Colston bounced off his face) while Manning dissected their defense masterfully, picking out receivers in single coverage or making pinpoint throws into double coverage — like the 19-yard touchdown pass to wide receiver Pierre Garcon.

The second quarter was the complete opposite: the Saints' offense ate up almost thirteen minutes and allowed only two Indy possessions, both of which resulted in three-and-outs. Despite this dominance, New Orleans could muster only two field goals to pull within four points, and were stopped by the Colts' defense on third- and fourth- and -goals at the one-yard line. Saints kicker Garrett Hartley would end the day with three field goals from over forty yards, setting a new NFL record. The score at halftime: 10-6 Indianapolis.

The first play of the second half was the defining play of the game. The Saints, kicking off, executed

a surprise onside kick and recovered at their own 42-yard line. Drew Brees completed all five passes on this drive (he would finish with 288 yards on 32 completions, tying the Super Bowl record), culminating in a 16-yard touchdown screen pass to running back Pierre Thomas. Indy would respond with a touchdown of their own, but that would be it for the Colts' scoring.

Dwight Freeney, the Colts' All-Pro defensive end whose ankle injury was a big question before the game, was much less effective in the second half — he was repeatedly sitting out to get his ankle re-taped, easing the pressure on the Saints' offensive line. Peyton Manning and the Colts offense seemed to run out gas as well.

The Saints added another long field goal from Hartley on the ensuing possession, but the Colts still held a one-point lead, 17-16. After a missed field goal, however, the Drew Brees and the Saints drove to another touchdown. Brees was outstanding again, completing all seven passes on the drive to give New Orleans its first lead of the game. After Lance Moore's acrobatic two-point conversion catch which required a New Orleans challenge to confirm, the Saints held a 24-17 lead.

Peyton Manning still had five minutes to engineer a fourth-quarter comeback, but, as predicted in last week's column, the Saints defense came up with a clutch play. Tracy Porter, who had the game-saving interception to force overtime two weeks ago against the Vikings, jumped on a pass intended for Reggie Wayne and returned it 74 yards for a touchdown — the only turnover by either team in the game. To add injury to insult, Manning was leveled by a blocker in his attempt to stop Porter.

The Colts now had to score twice in the remaining 3:12 to force overtime, but their drive stalled at the five yard-line and they were unable to convert on fourth down. A Drew Brees knee and Sean Payton Gatorade shower later, the city of New Orleans could finally celebrate its first Super Bowl title.

*And also, here's a shout-out to Caroline Huang and myself, Tech Staff who picked the Saints to win. We get bragging rights in the section and eternal glory. (Or at least until March Madness brackets come out...)*



MELANIE ADAMS—THE TECH

**Ian Fischer '12 pole vaults** in the men's track and field meet against Williams College and Coast Guard on Saturday. The Engineers won with 192.5 points to Williams's 136.5 and Coast Guard's 47.

## UPCOMING HOME EVENTS

### Tuesday, February 9

Men's Volleyball vs. Endicott College 7 p.m., Rockwell Cage

### Wednesday, February 10

Women's Basketball vs. Wheaton College 6 p.m., Rockwell Cage

Men's Basketball vs. Clark College 8 p.m., Rockwell Cage

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