

## MIT 150 art crystallizes between Buildings 56 and 66



JESSICA LIU—THE TECH

The corridor between Buildings 56 and 66 is closed until Feb. 21 in order to install a structure for the MIT 150 FAST Arts Festival. The festival, which celebrates the integration of art, science, and technology at MIT, kicked off with an exhibition of Stan VanDerBeek's work from Feb. 3–5 and will culminate with the FAST Light event on MIT's waterfront on May 7.

## Community reacts to plan for Kendall

### Questions raised over revitalization proposal

By Ethan A. Solomon  
EDITOR IN CHIEF

Cambridge City Councillor Kenneth E. Reeves expressed deep misgivings over MIT's plan to revitalize Kendall Square at this month's Town Gown meeting, saying that MIT's motives in the project may be driven by profit and that the Institute lacks expertise in building community spaces.

MIT dominated the discussion at the annual meeting between university and Cambridge City officials. The meeting, which began as a series of updates from MIT, Harvard, and Lesley University to the City's Planning Board, ended with statements from three city councilors and the Planning Board on MIT's preliminary plans to redevelop Kendall with 1.1 million square feet of new retail, office, lab, and residential buildings, clustered primarily around the Kendall T-station. Some councilors and planning board members expressed skepticism over MIT's ability to truly remake Kendall into a place where people can gather.

Councillor Reeves and members of the Planning Board have previously voiced concerns with MIT's process and vision for Kendall, and they repeated those sentiments at Town Gown.

Reeves told the Planning Board and community audience that MIT's concern with its real estate holdings — like those in Kendall — is “how much money can [they] make?” and that how MIT's investment property contributes to the community is “of no concern to [MIT].”

“We're being developed by entities whose bottom line is profit, not people or ease of access,” said Reeves.

But Steven C. Marsh, Managing Director for Real Estate of the MIT Investment Management Company (MITIMCo), says that MIT's motivations in Kendall are the continued development of the area into an “innovation cluster,” with the intent of attracting scientific talent and preserving Cambridge's global competitiveness.

“The big motivation behind this is growing the innovation culture in Cambridge,” says Marsh, who manages MIT's investment property in Cambridge.

Reeves did not spell out specific concerns with MIT's Kendall proposal, but he cited MIT's efforts — joint with Forest City Boston — to develop the University Park area south of Central Square as a failure of the Institute to consider the Cambridge community's needs.

“We were happy it was built,” said Reeves of University Park, “but it doesn't work as a people place.”

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## For Watson, Jeopardy! is elementary

### IBM researcher explained Watson's magic at MIT on Monday

By Evan Moore  
STAFF REPORTER

Quick! Take a clue, and break it down into keywords, finding out what it's asking for. Rack your brain and generate a list of hundreds of possible answers to said question. Then evaluate each answer produced for validity, using varying types of evidence. Figure out the best possible choice and report it. And do it in two to six seconds. Such a process is routine for supercomputer Watson, explained David Gondek, an IBM researcher who spoke at MIT on Monday, just before Watson began its highly anticipated competition against human *Jeopardy!* champions Brad Rutter and Ken Jennings.

(Watson, in case you haven't heard, won the competition handily.)

Gondek talked about his experience at

IBM developing Watson, as well as the inner workings of the machine, to a packed audience in 3-270. Several teams of researchers at IBM spent four years working on Watson. MIT Computer Science and Artificial Intelligence Laboratory research scientist Boris Katz also aided the project.

Watson, which runs on 2,800 IBM POWER7 processing cores, employs machine learning techniques and runs several algorithms in parallel to produce fast answers to questions, explained Gondek.

According to Gondek, Watson does not use simple keyword searches in its question-answering routines because they are inefficient. Instead, Watson beings by analyzing the *Jeopardy!* clue to figure out what “type” of answer is needed, whether it be a baseball player or an ancient civilization. To aid in this analysis, developers gave

Watson so-called “semantic frames” in the form of a “subject — verb — predicate,” so that it knew, for example, that “inventors patent inventions,” and “authors write books,” Gondek said.

Next, Watson searches its massive framework of content — it does not connect to the Internet and is completely self-contained — and generates a list of possible answers. Each answer is then evaluated, as Watson tries to find various types of evidence for support. Gondek explained that such evidence can come from many categories, including spatial, temporal, and taxonomic clues. After all of this, each possible answer is ranked. The one that has the highest “confidence” rating is the machine's answer.

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### IN SHORT

**MacGregor and East Campus** will be the two dorms open to undergraduates during the summer, the MIT Housing Office announced yesterday. New House, Next House, and Random Hall will be closed for “major construction and renovation projects,” the Housing Strategy Group reported on its website (<http://studentlife.mit.edu/housing-strategy-group>). Other dorms will be used by summer program groups and conferences, or closed completely.

**The Spring 2011 Final Exam Schedule** is now available on the Registrar's website (<http://web.mit.edu/registrar/>).

Send news information and tips to [news@tech.mit.edu](mailto:news@tech.mit.edu).

### Orientation 2011 to be largely identical to previous years

In an e-mail sent to undergraduate students yesterday evening, Undergraduate Association President Vrajesh Y. Modi '11, Dormitory Council President Christina R. Johnson '11, Dean for Undergraduate Education Daniel E. Hastings PhD '80, and Dean for Student

Life Chris Colombo announced that the schedule for Orientation 2011, with the exception of the start date of International Orientation, will not change. Residence Exploration (REX) will be the same length as it was last year.

With IO starting later, the Advanced Standing Exams may overlap with the end of IO. International students who wish to take ASEs would be accommodated. The e-mail did not elaborate on the proposed changes to FPOPs or to City Days.

According to the e-mail, which cited “largely negative” student reaction to

the proposed changes at a UA meeting last month, “the Deans for Undergraduate Education (DUE) and Student Life (DSL) will form a committee this spring to review all Orientation programs.” Students will be nominated through the UA to serve on the committee.

“We all share an interest in open communication and a process in which all voices can be heard in a representative way,” the letter read.

“We will continue to work together to ensure a successful Orientation for the Class of 2015 and beyond.”

—Pearle Lipinski

### ANOTHER TWITTER REVOLUTION?

Twitter may be taking down regimes in the Middle East, but it's also shaking up our hospitals. **OPINION, p. 4**

### GRAB THE THIRD RAIL, GOP

Why we should unshackle the Social Security Trust Fund. **OPINION, p. 4**

### ISRAEL, NOW MORE THAN EVER

Amidst turmoil in the Middle East, the US should embrace Israel. **OPINION, p. 5**



### MISS BOSTON, A PHYSICS NERD?

The Tech sits down with senior Dianna Cowern, who will be a contestant in the Miss Boston Pageant. **CAMPUS LIFE, p. 8**

### INDIA PALE ALE

The Sternewirth Privilege examines Dogfish Head's 60, 90, and 120 minute India Pale Ales, with some history. **ARTS, p. 10**

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# The Twitter Revolution inside our hospitals

## Is there a place for social media in the health care system?

By Andy Liang  
STAFF COLUMNIST

Last week on *Grey's Anatomy*, the doctors danced once again with the dangers of love and death. Dr. McSteamy took his wife, Dr. Grey, out of Alzheimer's clinical trials because he wanted his love-life and work separate. Meanwhile, in a quadruple bypass surgery, Dr. Bailey was live-tweeting. Dr. Webber, Chief of Surgery, scolded Bailey for being unprofessional. Bailey defended herself by pointing out how the tweeting would allow outside medical students to follow a surgery uncommonly witnessed, and she exited with lips pouting. Later, in another complicated surgery, witty banter and schoolyard-winks over the operating table turned quickly — as they often do — to flatline-beeps and spontaneous hemorrhaging. The patient needed a transfusion within three hours. The team had looks of despair until tweets from a nearby hospital announced they had the transfusion. The operation was eventually successful, and Dr. Webber overcame his distaste for Twitter, embracing it as a hand-in-hand tool for surgery.

Although the storyline is purely fictional, hospitals' recent turn to Twitter is real. Many hospitals are turning to social media to bridge the gaps in staff-patient communication. There are three important benefits to this change.

1. When patients need to see their doctors, the onus is on them to get an appointment, remember the appointment, go to the appointment, and ask follow-up questions. The time that process takes can be dangerous for patients who may be obli-

ous to critical conditions. This threat can be avoided when patients simply tweet their doctors, like at Sarasota Memorial Hospital, where more and more patients are learning to use Twitter to get the most out of their care. Physicians at Chicago's Rush University Medical Center even keep tabs on patients through Facebook so that they are notified by patients of their recovery.

### Many hospitals are turning to social media to bridge the gaps in staff-patient communication.

2. As in *Grey's Anatomy*, doctors may tweet during surgeries to answer medical questions from other patients. Like Dr. Webber, some people are concerned that tweeting will divert surgeons' focus. But an operating team rotates. One surgeon may be free while others work, and that surgeon can occupy his or her time by answering questions. In March 2009, doctors in a real-time brain surgery at Henry Ford Hospital tweeted to more than 1900 people to answer questions. Twitter has become a great resource for medical students and an informational stream for the public.

3. There are real-time crises, like when a transfusion is needed, when Twitter may come to the rescue. In August 2009, a chemical spill hospitalized more than 50 people, with two in critical condition. New

Bedford's Southcoast Hospital staff attending to these patients tweeted daily updates on each victim's condition, or if discharged, their treatments. The tweets also included patient information like phone numbers, helping family and friends contact the victims.

Nonetheless, there are still many hospitals reluctant to pick up social media as a communications tool, since they think such practice is a breach of patient confidentiality. Moreover, hospitals need to safeguard their public image, as former patients may publicly criticize poor hospital service through social media.

But one hospital has fully embraced change. The Mayo Clinic, located in Rochester, Minn., serves as the largest not-for-profit group practice in the world. Their philosophy is "the patients' needs come first." And indeed they do. Mayo Clinic has opened a Center for Social Media which will train health organizations to use Twitter, Youtube, and Facebook through conferences and workshops — called "Tweetcamp" — so that they can communicate with patients and the public like never before. The use of social media has helped eliminate inefficiencies like wait-time, insufficient doctor-patient interaction, and lack of public health education, all of which are vital to preventive care. The lack of preventive care can lead to expensive urgent care, like surgery and high-risk drugs. These costly procedures burden our health care system financially, and the solution lies in reforming hospitals. Mayo Clinic will shepherd health organizations into the Twitter generation, when care can come to you in a tweet's time.

# Grabbing the third rail

## Republicans have their work cut out for them on Social Security

By Keith Yost  
STAFF COLUMNIST

Last year, the Social Security Trust Fund paid out more than it received in tax revenue. By 2039, the Congressional Budget Office projects that the trust fund will be exhausted, at which point either benefits will have to be cut by 20 percent or taxes increased by 25 percent.

We're likely to encounter problems well before 2039. In a few more years, the reserves of the fund will begin being drawn down as payouts increase beyond the combination of tax revenues and interest income. Between then and 2039, \$2.5 trillion in government securities will have to be sold on a global bond market whose ability to absorb U.S. debt is already straining credulity.

Deficit doves, like the Brookings Institute, tell us there is no reason to worry and that there is plenty of time to tackle the problem. These assurances are no more credible than those of the teachers unions, who tell us our schools are doing great. Social Security is like the Titanic — it will not stop and turn on a dime. If we are to avoid crashing into the icebergs before us, we must begin turning the rudder now.

Social Security is primarily old age insurance. And as insurance, it gets the most bang for its buck when it insures against

very old age, focuses on the first dollars of retirement income, and is sufficiently solvent to guarantee, beyond a doubt, that it will be there for future retirees.

A good reform proposal, therefore, might be the following: Make up half of Social Security's shortfall by raising the retirement age to 70, and push the program into surplus by reducing benefits for the top 70 percent of earners. A bad reform proposal

### The battle for individual accounts has been lost. Republicans are going to have to avoid making them a component of the new system.

would involve pegging the rate of increase in benefits to a lower-than-inflation rate — changes like this would fall harder on the very old than the merely old. There are many ways to do the math — the conservative preference should be toward raising the retirement age and cutting benefits for the non-poor.

Beyond the immediate steps that are necessary to bring Social Security back into solvency, Republicans should also seek to improve the rate of return on the Social Se-

curity Trust Fund. A dollar invested in the Trust Fund in 1940 would have grown to roughly \$225 today. That same dollar, invested in the S&P 500, would have grown to \$1500. The problem is not just one of having less money to hand out to our elderly — by turning the Trust Fund into a captive customer for Treasury bonds, the interest on our debt has been kept artificially low and fueled the discretionary spending binges that have gotten us into our current mess.

One solution is to convert Social Security into individual accounts. Sadly, this policy will not be a viable option this time around. In 2005, on the heels of George W. Bush's re-election, the GOP made a push to mend our broken Social Security system. At the heart of their proposal were individual savings accounts. Individual savings accounts held two significant advantages over the existing system. Firstly, they removed much of Social Security's bias against shorter-lived demographics. Secondly, they allowed for the investment of Social Security funds in higher-yield assets than government bonds.

The fixes were torpedoed by Democrats, who managed to scare the elderly into thinking their overly generous goodies were being touched, convinced the demo-

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# MIT faces skeptics over preliminary Kendall plan

## 'Innovation culture' plan meets with questions on vision, urban renewal experience

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People don't seem to go there unless they have to go there."

The Councillor said he was especially concerned that the Institute's lack of "place-making strength" would be reflected in a Kendall development project, a fear which was echoed by some members of the Planning Board.

Marsh says that while building a culture of innovation and attracting talent to Kendall is key, "we recognize that it's really important for people to have places to gather and places to connect."

"We want to make sure we're doing things that are going to meet the legitimate needs of all the people in our community — but they also have to be viable," Marsh explained. "We can't do things that are going to redirect funding for cancer research into something that is a desire of the community that isn't necessarily mission-driven," he added, referring to the Institute's directive to advance research and teaching.

Marsh believes that the Kendall initiative is a "win-win" situation, where MIT can meet its goals of advancing innovation, but also create a sense of community.

At Town Gown, Councillor Reeves also targeted a lack of transparency among MIT's senior leadership: "It seems like the presidents of Harvard and MIT are in China and India, but they are not talking to government in Cambridge."

City Councillor Leland Cheung G, who spoke after Reeves, reaffirmed the need for strong communication between MIT and city government. "When Reeves was talking about the need for [City government] to interact with the heads of universities ... that is one point I want to underscore, it is absolutely critical," stated Cheung. "It is absolutely imperative we have an abundance of communication."

Sarah E. Gallop, co-director of the MIT Office of Government and Community Relations, says that the Institute's 10-month-old Kendall plan has been entirely transparent.

"We did two rounds of outreach. First, in the spring, we saw every city councillor, city staff, all the neighborhood organizations that about the Kendall Square area." After refining their plans during the summer, "we went back out, and did the whole thing again." Gallop emphasizes that the urban renewal plan was still in its early stages, and that no formal decisions have been made.

MIT had previously expected to propose zoning changes in January, but held off when the City announced it was seeking a consultant to run a planning study for the area from Kendall to Central Square, partially in response to concerns raised over MIT's vision for the region. Besides Kendall, the planning study will look at Novartis' planned expansion at 177 Mass. Ave., MIT and Forest City's new partnership at 300 Mass. Ave., and the health of Central Square. The City has received ten bids for the consulting job, and Gallop says MIT is fully supportive of the study process.

The timeline of the Kendall project will likely depend on the progress of the planning study. Currently, no plans have been formalized, and MIT is still soliciting input to help shape the goals of the renewal.

**Marsh believes that the Kendall initiative is a "win-win" situation for MIT and the city.**

In addition to Kendall, Reeves voiced concerns over MIT's plans to develop the block of Massachusetts Avenue between Blanche and Landsdowne Streets — the area just north of Random Hall — in partnership with Forest City. Reeves says MIT may be building new sections of the city that "don't work for the people." MIT's prior venture with Forest City at University Park had concerned the Councillor.

However, Marsh notes that several complexities in the planning process for the University Park development may explain why the area fails to live up to the standards Councillor Reeves was hoping for. University Park was designed to not detract from Central Square, Marsh explained, and limitations on retail in the area were built in to the zoning.

"What exists [at University Park] today is exactly what the community said [it] wanted there," adds Gallop, who says that the planning process heavily involved Cambridge City Council and neighborhood organizations.

Ultimately, Gallop felt that MIT's community engagement process ran counter to Reeves' assertions at Town Gown. "I sincerely doubt there's any proponent of any project out there who's done as much outreach as we have," she said.

For Kendall, Gallop says that MIT's plans are still formative. Right now, she says, "we just have an idea."

# US hardens stance on nationwide immigrant policy

## Obama administration requires all local jurisdictions to join Secure Communities program

By Julia Preston and Kirk Semple

THE NEW YORK TIMES

After months of internal wrangling and confusion over an ambitious nationwide program allowing state and local police agencies to identify immigrants with criminal records, Obama administration immigration officials have decided to take a hard line against communities that try to delay or cancel their participation in the program, according to documents made public late Wednesday.

The program, Secure Communities, was initiated in late 2008 and is a centerpiece of the Obama administration's strategy for enforcing immigration laws. The documents include e-mails and other materials showing deliberations among officials of Immigration and Customs Enforcement, which runs the program.

The documents show that well into the second year of the program,

as officials were moving forcefully to extend it to hundreds of law enforcement agencies across the country, the officials remained deeply confused over whether state and local governments could decline to join it. The internal discussions intensified as cities and states — including Arlington County, Va.; San Francisco; Santa Clara County, Calif.; Washington; and the states of Colorado, New York, Oregon and Washington — were considering whether to opt out.

But late last year, the documents show, officials from ICE, as the federal agency is known, reaffirmed its policy that every local jurisdiction in the country would be required to join the program by 2013. The officials developed a plan to isolate and pressure communities that did not want to participate.

One document, dated Jan. 2, 2011, suggests a "tactical approach to sensitive jurisdictions" for local immigration officers working to expand the program. It recommends they

bring nearby communities into the program, to create a "ring" around the "resistant site."

The Secure Communities program connects the state and local police to Department of Homeland Security databases, allowing them to use fingerprints to check the immigration history, as well as the criminal record, of anyone booked after arrest. If a fingerprint match shows that the suspect is subject to deportation, both the immigration agency and the police are notified. As of this week, the program had been activated in 1,049 local law enforcement agencies in 39 states.

Agency officials said the program has led to the deportation of about 58,300 immigrants with criminal convictions since it was started in 2008.

Immigrant advocacy groups strongly oppose the program, saying it has led to deportations of thousands of illegal immigrants who had no criminal records, separating

established families. Immigrants' groups have held protests to dissuade local governments from signing on.

About 15,000 pages of agency documents were released through a Freedom of Information Act request by the National Day Laborer Organizing Network, the Center for Constitutional Rights and immigration lawyers at the Benjamin N. Cardozo School of Law in New York. The Associated Press obtained the documents separately and reported on them Wednesday.

Several dozen documents were culled for release by the groups, which oppose the Secure Communities program.

Sarahi Uribe of the laborers' group accused the agency of misleading communities by sending mixed signals about whether they could opt out of the program. "The amount of dishonesty revealed in this process would make anyone question whether ICE recognizes it's operating in a democracy,"

Uribe said.

Immigration officials said they could not respond directly because a court case over the release of the documents remained open. But Brian Hale, an agency spokesman, said in a statement that "deliberative, internal correspondence should not be confused for final policy."

He said while communities could not opt out of the program, the police could choose not to receive the results of immigration checks performed when suspects are booked.

### LEGAL COUNSEL

MIT students, family, employers and start-ups seeking U.S. legal counsel, campus or office consultation. Call: James Dennis Leary, Esq. 321-544-0012

### Solution to Techdoku

from page 13

5	4	3	1	6	2
3	2	1	5	4	6
2	1	6	4	3	5
4	3	2	6	5	1
6	5	4	2	1	3
1	6	5	3	2	4

### Solution to Sudoku

from page 13

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

### Solution to Crossword

from page 11

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

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# Watson won with parallel algorithms

*Machine learning and 2,800-core processor made Watson work fast*

Watson, Page 1

Watson is both "blind and deaf," said Gondek. It read clues electronically at the same time that *Jeopardy!* host Alex Trebek read the questions out loud. After the clue is read, an indicator light on set cuts on, signaling the opportunity to buzz in. At the same time, Watson is allowed to press its own buzzer, which is mechanically controlled — Gondek described it as a "very fast solenoid," to the laughter of Course VI undergraduates in attendance.

When deciding whether or not to buzz in, Watson incorporates information about its confidence into its answer, as well as the particular game situation. Potential wagers made by the machine also depend on several factors. If Watson owns a large lead, for example, it may only bet a couple hundred dollars on a "Double Jeopardy!" question.

According to Gondek, Watson was trained with over 100,000 sample *Jeopardy!* questions. In addition to being able to track Watson's progress, researchers were also able to access problem areas and "teach" Watson what to do with certain clues.

Watson wasn't perfect. On the television screen, producers placed

a graphic showing Watson's top three answer choices, along with the confidence it had in each one. These provided insight into its thought process and showed what at times appeared to be nonsensical answers. For instance, for the "Final Jeopardy!" question on Tuesday, the clue asked for a certain U.S. City. Watson's answer? "Toronto." Gondek said that, unfortunately, Watson is too "complex" to know its complete thought process for every answer.

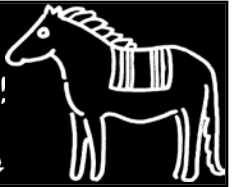
**Watson incorporates its confidence into its answer, as well as the particular game situation.**

In the future, IBM plans to utilize the technology of Watson in other areas, such as business or health care, where Watson could help in diagnosing illnesses, said IBM Program Director of Technical Recruiting William R. Strachan PhD '67. The system behind Watson — the POWER7 cores — are commercially available.

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\*The Army Lab provides the intern's salary, which typically ranges from \$2280/month to \$2864/month depending on class year. Under certain circumstances the ISN can provide the intern with a supplement of up to \$1500 to defray costs of local accommodations and travel.

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**Beauty and Brains.** Physics major and Miss Boston contestant Dianna L. Cowern '11.



DAVID M. TEMPLETON—THE TECH

## From sandy beaches to center stage

Course 8 senior competes in Miss Boston Pageant

By Michael Lin  
CONTRIBUTING EDITOR

Attending college offers the opportunity to come into contact with new and exciting people virtually every day. Case in point: Dianna L. Cowern '11 hails from Hawaii and is studying physics. She once distributed polio vaccines in the Dominican Republic and plays the ukulele. This Sunday, she will be competing in the Miss Boston Pageant, the first step on the path that potentially leads to becoming Miss America. *The Tech* had the opportunity to interview Miss Cowern about her pageant preparation and her experiences at MIT.

*The Tech:* So, you're competing in the Miss Boston Pageant. How did you come to be doing that?

*Dianna L. Cowern:* I actually did the Miss Massachusetts Pageant [part of Miss USA] in the fall. I found that one on Facebook. (laughs) Facebook gave me an ad about a pageant, which is nothing like I'd ever done, but I decided to do it, because it sounded fun. I did that in the fall, and in the spring, I was like, "Well, I've learned some public speaking skills, and how to walk in heels, and things that girls usually know, and I have a dress, so why not do it again?" Then I found out that Miss Boston is more towards scholarship and works more with charity organizations. It just seemed like a better experience, so I thought, "why not do it?"

*TT:* You do physics and music. How does that balance with all the things you have to do to be in a pageant?

*DLC:* As you might guess, it was a lot easier to balance things in high school. When I came to MIT, I wanted to continue music, but I couldn't continue piano and voice, so I decided to quit one, and I chose [to continue] voice. I sang in an a capella group for two years, I did Chamber Music Society freshman year, and I'm doing that again this year. I actually quit the a capella group my junior year, because I was just too busy — I was trying to double-major 6 and 8, and I decided way too late that I wanted to do that, and I'd already taken course 9 classes and Spanish classes, and all kinds

of classes that weren't going towards my Course 6 degree. At some point last year, I just decided, I can't do this, I'd have to take five, six classes until forever, so I decided to drop the Course 6 major. It's really hard to balance, when you really, really focus on academics — and when I was taking three Course 8 classes, two Course 6 classes, I couldn't focus that much on music. You have to make time for a few things, and sanity should usually be one of them.

**The entire island is like your backyard ... we would play in the waterfall, go on hikes all the time, and go kayaking.**

*TT:* And singing is going to be your talent for the pageant? How are you preparing for that?

*DLC:* Actually, one of my friends, Allin [D.] Resposo ['11], who does mashups, he put together an arrangement of "Think of Me" from *The Phantom of the Opera*, transposed it into the key that I could sing in, so I've just been practicing with the track that he made.

*TT:* How did you end up living in Hawaii?

*DLC:* Actually, [my family] lived in New Hampshire before. When I was one, my parents decided to move [to Hawaii]. We didn't really have a plan. So we were just like, "Maybe we'll start a macadamia nut factory." And when [my parents] got there, they decided to start a bed and breakfast. They were struggling for a while, because the cost of living in Hawaii is extremely high. Just when they started the bed and breakfast, a hurricane hit in 1992. It destroyed part of our house and blew the roof of the guest house across the valley. But because the cottage was destroyed, they got a lot of insurance money for that, and that was

enough to pay for parts of the house, and continue investing in the bed and breakfast. And now my mom runs that by herself, and my dad followed his dream of becoming a tree farmer. (laughs) He's now starting a sustainable biomass plant for the community. He's a very smart man, and he's very into technology and entrepreneurship. He's probably the reason I'm here at MIT.

*TT:* What was it like growing up?

*DLC:* Umm ... amazing. I mean, obviously — it's Hawaii. It's just so beautiful, the entire island is like your backyard. There was a waterfall 20 minutes from our house, so we would walk down there and play in the waterfall, go on hikes all the time, go kayaking. I also drove tractors on the tree farm for a while. At the same time, there were things I wish had been different. Hawaii was so small; there weren't that many opportunities, so coming to MIT was kind of a shock. I got here, and people were so brilliant, and had so much experience, and I had come from a place where I had to struggle to get into a calculus class. My school didn't have calculus until I went there, and I had a one-on-one teacher in that class. So, schooling wasn't ideal, but at the same time, the community was incredible. We had so many family friends all over the place, it was a warm place to grow up.

*TT:* So, according to your pageant profile, you're interested in the fields of science communication, journalism, or education. What made you choose those?

*DLC:* Partially, working in physics labs. I'm really interested in lots of different kinds of science. I took a Course 2 class for a while, Course 9, I could not decide — I still can't decide — what I want to do. So, science journalism is a field where you can study anything in a lot of different areas, and learn it in-depth enough to communicate it to someone else. I actually started a blog, and the first article was about formaldehyde and how it works, and the second article was about honeybees, so I went and got some books from the library and I was reading about bees, and learning all this stuff I had never known, and I loved it. I liked writing the article, I liked trying to explain

it in an interesting way using analogies ... it's really fun for me, and I only discovered in the last couple years that I liked writing about science, I liked trying to communicate new things, and I liked the challenge of communicating accurately. I mean, one of the biggest criticisms of science journalism is that either they're not focusing on the most important facts about science, or getting the facts wrong altogether. So, coming from a science background, I want to take on that challenge of communicating the right issues properly.

*TT:* Last question — in order to become a strong pageant contestant, you obviously have to be a well-rounded individual in numerous aspects of life. Do you have any advice for people who want to expand their horizons?

**I would tell people to keep an open mind — you don't have to focus on just one thing to succeed in life.**

*DLC:* I would say, always remain open-minded. One of the reasons I was hesitant about doing the pageant was because MIT sort of focuses solely on academics, and makes you feel almost inferior if you're not spending all of your time studying, so I think it's really important for people to do what helps them promote confidence, and character, and focusing on yourself. Pageants aren't the usual path that people take at MIT. I would just tell people to keep an open mind, that you don't have to focus on just one thing to succeed in life. It's the people that have confidence, that can express themselves, who are going to push their ideas forward.

*The Miss Boston Pageant takes place this Sunday at 5 p.m. at the Omni Parker House. Tickets are \$20. For more information, and to purchase tickets online, visit: <http://www.missboston.org>.*

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# Initial public offering possible in 2012 for Zynga

## Web game maker in talks with several investors for \$250 million round of financing

By Evelyn M. Rusli  
THE NEW YORK TIMES

Zynga, the company behind many of the Web's most viral games, is in advanced discussions on an investment that would value the company at nearly \$10 billion and could pave the way for an initial public offering next year.

The company is in talks with the mutual fund giants T. Rowe Price and Fidelity Investments, among other investors, for a \$250 million round

of financing, said two people close to the discussions, who spoke on the condition of anonymity because the talks are confidential. Zynga is also contemplating filing for an initial public offering as soon as the first quarter of 2012, these people said.

The investment negotiations and the lofty valuation they imply could further drive investors' intense interest in social media companies, highlighted by last month's deal between Facebook and Goldman Sachs.

It would also add to the debate

over whether the enthusiasm for these fast-growing Internet companies points to an overheated market. As part of its deal with Goldman, Facebook raised \$1.5 billion in January, giving it a \$50 billion valuation.

In the same month, the social buying site Groupon closed a \$950 million financing round with investors like T. Rowe Price and Fidelity Investments. Groupon is now considering a public offering that could value the company at \$15 billion or more, according to people close to

the matter. LinkedIn, a professional social network, has also filed for an initial public offering.

Although the Zynga financing has not yet closed and may still fall apart, there has been significant investor interest, these people said.

A spokeswoman for Zynga declined to comment. *The Wall Street Journal* reported the talks with potential investors on Monday.

Zynga has emerged as one of the fastest-growing companies on the Internet, propelled by the popularity of

games like CityVille and FarmVille.

In CityVille, which began in December, users create and manage virtual cities, constructing buildings and collecting taxes.

The game, like most in Zynga's stable, has flourished on Facebook, where it reigns as the site's top-ranked game with 96 million active users a month, according to AppData. FarmVille is second, with 51 million players.

All together, Zynga's games attract more than 275 million users every month on Facebook, making it the most popular gaming service on the platform and a major contributor to the social network's revenue.

The bulk of Zynga's revenue, estimated to be more than \$500 million, is tied to the virtual goods it sells on Facebook, analysts say. But Zynga has taken several steps in the past two years to become more independent. The company has signed partnerships with other social networks, like Yahoo, and it has expanded its reach on mobile devices, with applications for the iPhone and iPad.

In what could be its boldest move to date, Zynga is also preparing to start a stand-alone gaming destination that will allow users to play its games outside of Facebook, according to three people briefed on the matter. The project, known as Zynga Live, will also serve as a gaming social network and is expected to make its debut in the middle of this year.

"We're always looking for ways to improve the user experience, but we don't ever comment on what we may or may not be working on. We're focused on building a new form of entertainment that's connecting the world through games," Zynga said in a statement.

Miguel A. Helft contributed reporting.

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## Police Log

The following incidents were reported to the Campus Police between Dec. 19 and Feb. 5. The dates below reflect the dates the incidents occurred. This information is compiled from the Campus Police's crime log. The report does not include alarms, general service calls, or incidents not reported to the dispatcher.

Dec 19	Bldg. 2, 11:00 p.m., Laptop stolen. Officer takes report.	Jan 13	breaking and entering at 21 Ames St.	Jan 21	Bldg. W20 (Student Center), 12:28 a.m., Stephan Gartland of 240 Albany St., Cambridge arrested on an outstanding warrant. Sector 4 officer arrests.
Dec 20	Bldg. 33, 5:00 p.m., Remote control stolen. Sector 3 officer takes report.	Jan 13	Bldg. NW86 (Sidney Pacific), 9:15 a.m., Stolen Jeep recovered in New Hampshire.	Jan 23	Bldg. W35 (Z-Center), 8:00 p.m., Report of stolen iPod.
Dec 20	Bldg. W51 (Burton-Conner House), 12:00 p.m., Individual harassed electronically. Report taken.	Jan 15	Bldg. W15 (Chapel), 4:30 p.m., Report of theft from unlocked lockers. Sector 4 officer takes report.	Jan 25	Bldg. 4, 5:45 a.m., David Mathis, 1575 Tremont St., Boston, arrested for trespassing.
Dec 22	Bldg. W20 (Student Center), 10:00 p.m., Report of stolen laptop.	Jan 10	Bldg. W61 (MacGregor House), 12:00 p.m., Report of suspicious behavior. West car takes report.	Jan 25	Bldg. NE48 (700 Technology Square), Credit card fraud report taken.
Dec 23	Bldg. W20 (Student Center), 7:30 p.m., Report of stolen bike.	Jan 11	Bldg. E25 (Whitaker College), 9:00 a.m., Theft of laptop. Sector 1 officer takes report.	Jan 26	Bldg. 5, 7:25 p.m., Christopher Bouldin, homeless, arrested for trespassing.
Dec 26	Bldg. NW86 (Sidney Pacific), 6:00 p.m., Report of possible abuse of pet dog.	Jan 11	Bldg. W20 (Student Center), 12:00 p.m., Theft of furniture from first floor.	Jan 29	Bldg. W70 (New House), 2:00 a.m., Theft of laptop. West car officer takes report.
Dec 29	Bldg. 8, 7:15 a.m., Report of hacked e-mail. Sector 3 officer takes report.	Jan 11	Bldg. 35, 12:31 p.m., Theft of video camera. Sector 3 officer takes report.	Feb 3	Bldg. W20 (Student Center), 2:00 a.m., Trespass warning issued to individual on third floor.
Dec 29	Bldg. W35 (Z-Center), 9:00 a.m., Theft of cash from jackets. Sector 4 officer takes report.	Jan 18	Bldg. W31 (Du Pont Athletic Gymnasium), 9:04 a.m., Larceny of wallet, Sector 1 officer takes report.	Feb 3	Bldg. 50, 10:40 p.m., Report of homeless person on second floor. Trespass warning issued.
Dec 29	Bldg. 10, 5:09 p.m., Report of stolen vacuum cleaner.	Jan 18	Bldg. 5, 5:17 p.m., Report of unwanted e-mails. Sector 3 officer takes report.	Feb 4	Bldg. W1, 8:30 a.m., Lunch box containing personal items stolen from W92 dock area.
Jan 3	Bldg. 32 (Stata Center), 12:30 p.m., Report of stolen received package.	Jan 18	Bldg. W85 (Westgate), 9:59 p.m., Report of domestic and self-inflicted wound. All units respond.	Feb 4	Bldg. 18, 11:45 p.m., Report of lab fire. Fire department and MIT respond. No injuries.
Jan 5	Bldg. 18, 3:28 p.m., Report of iPod theft. Sector 3 officer takes report.	Jan 19	Bldg. 14, 12:23 p.m., Unauthorized use of office area after hours.	Feb 5	Bldg. 32 (Stata Center), 10:00 a.m., Damage to parked vehicle.
Jan 5	Bldg. 13, 5:02 p.m., Report of stolen laptop. Sector 3 officer takes report.	Jan 19	Bldg. E62, 7:00 p.m., Larceny of laptop. Sector 1 officer takes report.	Feb 5	Bldg. W20 (Student Center), 11:50 p.m., Officer responds to report of suspicious activity in lobby 7.
Jan 5	Bldg. 7 (77 Mass. Ave.), 6:30 p.m., Report of stolen leather jacket. East car officer takes report.	Jan 19	Back St., Boston, 8:32 p.m., Student reports being robbed in Boston, but refuses to give report.		
Jan 6	24 Lee St., 3:26 p.m., Aaron Swartz arrested for				

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# Criticism emerges from downplay of breast implant risk

By Denise Grady  
THE NEW YORK TIMES

When talking to patients about a rare type of cancer linked to breast implants, plastic surgeons should call it "a condition" and avoid using the words cancer, tumor, disease or malignancy, the president of the American Society of Plastic Surgeons advised members during an online seminar on Feb. 3.

The comments, by Dr. Phil Haeck, the society president, were made public on Thursday by Public Citizen's Health Research Group, an advocacy group in Washington. The group also wrote to the Food and Drug Administration, characterizing the advice as part of a misinformation campaign devised to play down the risks of implants, and urging health officials to put a stop to it.

Haeck was traveling and not available for an interview, according to a spokesman for the plastic surgeons' group, which issued a statement responding to Public Citizen's claims.

The surgeons' group said Public Citizen had taken Haeck's remarks out of context and misconstrued them. He was discussing a possible link between the implants and anaplastic large-cell lymphoma or ALCL, a cancer that involves the immune system.

The events grew out of an announcement on Jan. 26 by the Food and Drug Administration that breast implants might cause a small but significant increase in the lymphoma,

which is rare but treatable. It is not breast cancer. It is usually a systemic disease, but in the cases linked to implants, the lymphoma grew in the breast, usually in the capsule of scar tissue around the implant.

Though some evidence suggests that the lymphoma associated with implants might be less aggressive than the more common form of the disease, that evidence is not conclusive, said Dr. William Maisel '88, the chief scientist and deputy director for science in the Center for Devices and Radiological Health at the Food and Drug Administration.

The disease is exceedingly rare. At the time of the January announcement, the drug agency said it knew of only about 60 cases worldwide, a tiny number compared with the 5 million to 10 million women who have implants. But even that small number appears to be an excess of cases when compared with the usual incidence in the breast of this type of lymphoma in women who do not have implants: 3 in 100 million.

In some cases simply removing the implant and scar tissue appeared to eliminate the disease, but in others women were given chemotherapy or radiation, or both.

The Food and Drug Administration issued a statement saying it was reviewing Public Citizen's letter.

The agency has said that women with implants should pay attention to changes in their breasts and see a doctor if swelling, lumps, pain, asymmetry or other symptoms develop. The lymphoma can occur years after the implant surgery.

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# Hoops teams fall to Mt. Holyoke, Coast Guard

*Men's and women's teams to close regular seasons in home doubleheader Saturday*

By David Zhu  
SPORTS EDITOR

Both the MIT Men's and Women's Basketball teams lost last weekend, as the men were upset by Coast Guard and the women could not hold on against Mount Holyoke.

The men's team traveled to New London, Conn. on Saturday to take on the U.S. Coast Guard Academy. The Engineers were looking to extend a four-game road winning streak, but could not do so against the Bears, losing 62-53.

Despite leading Coast Guard in shooting percentage — 42.9 percent to 38.9 percent — the Engineers turned the ball over 21 times.

In the first half, Coast Guard got out to a quick start, scoring the first two baskets and stretching their lead to seven less than six minutes in. The Engineers then went on a 8-0 run to take their first lead of the night, 12-11. The teams then traded leads until the half, with the Engineers entering the break up by two, 30-28.

Coast Guard would not regain the lead until six minutes were left in the game, but took a 51-50 lead for good. The Engineers were held without a field goal for the final 8:16 of the game, during which they were outscored

15-4 and committed six turnovers.

William Tashman '13 led the Engineers with 16 points and was the only MIT player in double-digits. He also grabbed 10 rebounds.

The women's team hosted Mount Holyoke on Saturday, looking to snap a four-game losing streak. They got out to a quick start, scoring the first six points of the game, but Mount Holyoke responded with six unanswered points of their own. After trailing 10-8, MIT went on a 12-2 run and went into halftime leading 20-14.

The Engineers kept their momentum coming out of the break, outscoring Mount Holyoke 13-2 in the first seven minutes of the second half to extend their lead to 17 points, 33-16. They were unable to hold the lead, however, as the visitors responded with a 28-6 run in the last 12 minutes for a final score of 44-39.

Tamara R. Pena '14 led MIT with 15 points, and Rachel A. Hunt '14 contributed eight points and eight rebounds.

The teams will close their regular seasons at home on Saturday, Feb. 19, with the women facing Smith at 1 p.m., followed by the men taking on Springfield at 3 p.m. The seniors on both teams will be recognized on Saturday.

## SPORTS SHORTS

### Rifle falls to Coast Guard

In its final competition of the regular season, the MIT Rifle team traveled to the U.S. Coast Guard Academy and



suffered a pair of narrow set-backs in both the smallbore and air rifle portions of the meet. The Engineers finished just 25 points behind the hosts in smallbore, with a final score of 2114-2091, and were defeated 2194-2135 in air. Elizabeth A. Phillips '13 led the way for Tech in both guns and had the second highest air rifle score in the meet.

Phillips scored better than 90 on all

six air rifle targets on her way to a total of 562, just four points behind the leading shooter on the day. Giulia B. Pantalone '13 had a solid effort, posting a score of 527. Michael A. Batista '12 (525) and Rebecca L. Gould '11 (521) rounded out the air rifle scoring for the Cardinal and Gray.

In smallbore, Phillips (539) and Lionel F. Sotomayor '12 (526) helped Tech account for two of the three highest scores. However, Coast Guard displayed just a bit more depth with its remaining shooters to come away with the victory by a slim margin.

The Engineers will compete in the Mid Atlantic Rifle Conference Championship in two weeks. The championship will take place on Saturday, Feb. 26 and is hosted by the U.S. Naval Academy.

—Greg McKeever, DAPER Staff

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