

Nanotech lab top priority for MIT

Search for perfect location to build nMaSS lab continues

By Janelle Mansfield
STAFF REPORTER

Last April, President Susan J. Hockfield called the construction of the nano-Materials, Structures, and Systems (nMaSS) laboratory the Institute's "highest academic priority" in a video outlining the MIT 2030 plan for campus development.

The nMaSS lab will bring together research activities and equipment that are currently in different locations around campus. It will gather existing nanoscale research — specifically projects requiring sensitive equipment — and allow for fu-

ture expansion.

Nanoscale research is diverse, and happens in several of MIT's academic departments. Some groups are working on integrated circuits, for instance, while others develop nanomaterials for electrochemical energy storage and conversion.

Associate Provost Martin A. Schmidt PhD '88 says that MIT has needed a new nano-research facility for a while. He attributes this need to the physical condition of many current lab spaces and changes in the type of equipment used in this research.

Nanolab, Page 10



ELIJAH MENA—THE TECH

Lawrence H. Summers '75 (right) spoke Wednesday evening in Building E51 in a lecture sponsored by the Undergraduate Economics Association. In his talk, titled "Stimulating Growth in the Short and Long Run," Summers spoke about the lack of demand as the key factor in the U.S. economy's sluggishness. Summers, a former Harvard president, also talked about his experiences working for Presidents Clinton and Obama.

Empty UA Senate seats filled by new elections or presidential appointments

The UA Senate has seen several empty seats lately, and not because of students sleeping in. Several seats were never filled because nobody ran in UA elections or there was no clear winner. Other seats were vacated after senators resigned.

No candidate won a plurality in the McCormick, New House, or fraternity elections, but those seats were filled in runoff elections.

It is the responsibility of each living group to fill its vacant seats after elections. Vacancies in Baker, Bexley, and ILG seats will be filled by senators appointed by those groups' presidents, said UA President Allan E. Miramonti '13. The seats vacated by resignations

in Simmons and MacGregor, in addition to a second seat in Next House, were filled in subsequent elections. New House still has only one senator, though it is allotted two spots.

"It's a matter of finding interest," said Miramonti. "It's better to have an empty seat than someone who doesn't want to be there." McCormick was allotted two senate positions last year, but population shifts have led to it only having one representative.

There were also problems with the election system itself. Hollie O'Brien '15, former Simmons senator, was nominated — jokingly, she said — as

UA Senate, Page 11

Megamimo wins Elevator Pitch Contest grand prize

By Austin J. Hess

The MIT \$100K Elevator Pitch Contest wrapped up Wednesday at the finale event in the Stata Center's Kirsch Auditorium. The Elevator Pitch Contest began with 285 contestants on Monday, and it is the first of a series of three contests sponsored annually by the MIT \$100K Entrepreneurship Competition.

To win the \$5,000 grand prize, individuals or team representatives had to deliver a 60-second pitch of a business idea to judges in one of six categories: emerging markets, energy, life sciences, mobile, products & services, and web/IT. Sixty semifinalists were chosen over the first two days of the contest, and 12 finalists were then chosen from this group. The two finalists in each category were announced at the finale event, when the judges chose a winner and two runners up for the contest.

The crowd at the Academy Awards-themed event, complete with inflatable noisemakers, overflowed the auditorium. The keynote address was given by Matt Lauzon, founder of online jewelry retailer Gemvara, which has secured more than \$25 million in venture capitalist funding. All four of the judges were also entrepreneurs in various industries.

Finalists were called up by category to re-deliver their pitches. They were sometimes cut off mid-sentence or mid-word by a loud buzzer at the end of a minute. The judges then had 30 seconds to ask questions of the contestants.

The finalists' business ideas represented a wide range of industries, from optimizing sun protection compounds to facilitating micro-philanthropy for

Elevator Pitch, Page 8



JOHN A. HAWKINSON—THE TECH

Hackers deployed a banner on Tuesday morning over Building 7 marking the end of the so-called "November rule." The November rule discourages upperclassmen from becoming involved with freshmen beyond friendship or introducing them to certain aspects of roof and tunnel hacking before Nov. 1.

IN SHORT

The ESP website won APO's Ugliest Manifestation contest, with \$155.77. Roberto J. Melen-dez '12 took second and Benjamin P. "Ducky Ben" Lehnert '13 took third.

The Stata wormhole dedication is Monday at 2:00 p.m. in the Forbes Café. Free ice cream!

Send news information and tips to news@tech.mit.edu.

2011–2012 IFC Executive Board elected

The 2011–2012 Interfraternity Council (IFC) Executive Board was elected on Tuesday by the Presidents' Council, with Thomas A. Anderson '13 elected as the IFC's new president. Anderson, a brother of Zeta Psi, was previously IFC Judicial Committee secretary. The new executive board will assume their positions at the next Presidents' Council meeting on Wednesday, Nov. 16.

"My main concerns are interactions with the MIT community. I'd like to improve communications across the board," Anderson said.

One of the initiatives Anderson would like to work on is a general newsletter for the fraternity community that would include information about up-



JOSEPH MAURER—THE TECH
Thomas A. Anderson '13, new IFC president.

President
Thomas A. Anderson '13 (Zeta Psi)
Vice President
Louis DeScioli '15 (Delta Upsilon)
Executive Assistant
Alexander T. Kiefer '15 (Zeta Psi)
Risk Manager
Alexis J. Ludena '14 (Theta Delta Chi)
Judicial Committee Chair
Kyle M. Smith '13 (Kappa Sigma)
Recruitment and Programming Chair
Evan P. Wang '14 (Kappa Sigma)
Public Relations Chair
Douglas O. Sanchez '14 (Theta Delta Chi)

coming community service events, profiles of brothers, and a bulletin about risk management policies.

Anderson also wants to increase communication between fraternity houses through "delegate meetings" for specific officers, such as publicity

IFC Elections, Page 8

FROM THE DESK OF THE 1 PERCENT

Oh, sure, the 1 percent really do care about the 99.

OPINION, p. 4

MIT DOES MACBETH

Shakespeare ensemble puts on quite a show. **ARTS, p. 7**

THE RENAISSANCE THAT WASN'T

Fukushima didn't kill the nuclear promise, it was already dead. **OPINION, p. 4**



THE TECH TALKS TO JORGE CHAM

Creator of the acclaimed PhD comics chats with us, on video!

VIDEO, p. 10

CITY COUNCIL ELECTIONS, PART II

Familiarize yourself with the rest of the candidates.

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Europe, US market anxiety grows over Italy

By **Graham Bowley**
THE NEW YORK TIMES

When Italy issued 3 billion euros in bonds last week at an interest rate of more than 6 percent, it was about 1.5 percentage points higher than it had to pay as recently as last summer — and the most expensive 10-year money it had borrowed since joining the euro a decade ago.

That cost — extracted by financial markets increasingly doubtful about Italy’s ability to repay its loans — shows just how hard it is for indebted European countries to escape their raging financial crisis. Even as they frantically cut back their debt mountains through austerity measures, the debt servicing costs are piling up.

In Italy’s case, the extra bond yields are adding as much as 3 billion euros (about \$4.1 billion) in additional interest payments annually, estimates Tobias Blattner, a former economist at the European Central Bank who is an economist at Daiwa Securities in London.

“That is a lot of money for

someone trying to cut their debt,” he said. “Each day the situation deteriorates and you have to go back for more austerity measures to match them.”

The interest rates on Italian debt fell back on Thursday after Greece called off its proposed referendum on the terms of its planned bailout, and the European Central Bank cut interest rates, announcements that cheered financial markets across Europe and the United States.

The Euro Stoxx 50 index, a barometer of eurozone blue chips, closed up 2.5 percent. The German DAX was up 2.8 percent and the CAC 40 in Paris rose 2.7 percent. The FTSE 100 index in London rose 1.1 percent.

In the U.S., the Standard & Poor’s 500 index was up 1.9 percent, or 23.25 points, at 1,261.15, and the Dow Jones industrial average gained 1.8 percent, or 208.43 points, at 12,044.47. The Nasdaq rose 2.2 percent to 2,697.97.

Energy, industrials, technology and materials each rose about 2 percent, while financial stocks were up 1.12 percent.

The latest developments in Greece were seen as supportive for stocks, but “the big thing was the European rate cut and that is what is driving the market,” said Doug Cote, chief strategist at ING Investment Management. “Investors are going to start nibbling around and going back to risk.”

The Italian 10-year yield — rising to 6.352 percent on Thursday before falling back to 6.167 percent — remains uncomfortably high, and could move higher again, analysts said. Facing a confidence vote on Friday, the Greek government may still be forced to call for a new election. That would again call into question the entire rescue package for indebted European countries that was agreed to last week at a summit meeting in Brussels.

“Papandreou still has to face the confidence vote,” said Win Thin, currency strategist at Brown Brothers Harriman in New York. “If he passes, he could still reintroduce the referendum. If he does not pass it, then the opposition is not happy about the current deal. It gets politically messy.”

Greek leader calls off referendum on bailout plan

By **Rachel Donadio and Niki Kitsantoni**
THE NEW YORK TIMES

ATHENS, Greece — In a tumultuous day of political gamesmanship, Prime Minister George A. Papandreou on Thursday called off a referendum on Greece’s new debt deal with the eurozone after winning a measure of support from his opposition and managed to repair, at least for a day, a major rupture in relations with Europe.

The decision to abandon his idea of holding a popular vote on the European debt deal did not end the political turmoil here; Papandreou still faces a rebellion in his own Socialist Party and the fury of some opposition figures, and he will have to weather a difficult confidence vote Friday. But talk of a possible unity government eased international fears of immediate new elections and a looming default if he did not survive in office, cheering markets in Europe and abroad.

In an address to his party’s central committee Thursday evening, Papandreou said there was no need for a referendum now that the opposition New Democracy Party had said for the first time that it would back the agreement, reached last week, to write down Greek debt in exchange for austerity measures and a commitment to the euro as the nation’s currency.

The prime minister invited the New Democracy Party to become “co-negotiators” on the deal and later said that talks on a unity government should begin immediately. He also suggested that he would be willing to step aside so that others could form a unity government if he won Friday’s confidence vote.

“I am not clinging to my seat,” he said.

He made those comments after the New Democracy leader, Antonis Samaras, accused the prime minister of “deception.” Samaras was angry that Papandreou appeared to be trying to hold on to his

post after securing the opposition’s cooperation.

Papandreou’s decision to call off the referendum followed three days of political volleyball that whipsawed world markets, shook the Continent to its foundations and drove angry European leaders to issue an ultimatum Wednesday demanding that Greece decide once and for all if it wanted to remain a part of the European Union and its currency bloc, the eurozone.

But after a day of political horse-trading, Greece’s political storm began to look less like points of departure for Europe than hastily considered parliamentary maneuvers by a prime minister who was looking for a way to shore up support with both the Socialists and the opposition — or to negotiate a graceful exit. As has happened so often in the euro crisis, the fate of the European enterprise seemed to hinge on the political machinations of one of the union’s smallest members.

Study finds big spike in poorest in the US

By **Sabrina Tavernise**
THE NEW YORK TIMES

WASHINGTON — The number of people living in neighborhoods of extreme poverty grew substantially, by one third, over the past decade, according to a new report, erasing most of the gains from the 1990s when concentrated poverty declined. More than 10 percent of America’s poor now live in such neighborhoods, up from 9.1 percent in the beginning of the decade, an addition of more than 2 million people, according to the report by the Brookings Institution, an independent research group.

Extreme poverty — defined as areas where at least 40 percent of the population lives below the federal poverty line, which in 2010, was \$22,300 for a family of four — is still below its 1990 level, when 14 percent of poor people lived in such areas.

The report analyzed Census Bureau income data from 2000 to 2009, the most recent year for which there

was comprehensive data.

The measure of concentrated poverty came into broad public use among academics in the 1960s, when civil unrest, the decline of blue-collar jobs and the flight to the suburbs left swaths of U.S. cities stranded in islands of poverty.

In “The Truly Disadvantaged,” William Julius Wilson, a sociologist now at Harvard who pioneered the concept, argued that residents of such areas were more likely to experience joblessness, poor schools, broken families and high crime.

Living in such areas often led to poorer health and educational outcomes for children, creating higher hurdles for success as adults.

“It’s the toughest, most malignant poverty that we have in the United States,” said Peter Edelman, the director of the Center on Poverty, Inequality and Public Policy at Georgetown University. “It’s bad outcomes reinforcing each other.”

The data in the Brookings report

captures the first part of the decade most clearly, when growth in concentrated poverty was highest in metropolitan areas in the Midwest. Of the places where poverty concentrated the most, three were Midwestern: Toledo, Ohio, Youngstown, Ohio, and Detroit.

The report estimated that in metropolitan areas, worsening economic conditions in 2010 may have bumped up the portion of those living in concentrated poverty metro areas to 15 percent, a notch below the 1990 level, 16.5 percent. The biggest rises were in Sun Belt areas like Cape Coral, Fla., and Fresno, Calif., where the housing bust was biggest.

The Census Bureau’s traditional measure of poverty tends to overstate poverty for some groups, because it does not take into account noncash government assistance for the poor, like food stamps and the earned income tax credit. Those programs lift millions of people above the poverty line.

Google tries to improve timeliness of searches

SAN FRANCISCO — Acknowledging that some searches were giving people stale results, Google revised its methods Thursday to make the answers timelier. It is one of the biggest tweaks ever to Google’s search algorithm, affecting about 35 percent of all searches.

The new algorithm is a recognition that Google, whose dominance depends on providing the most useful results, is being increasingly challenged by sites like Twitter and Facebook, which have trained people to expect constant updates with seconds-old news. It is also a reflection of how people use the Web as a real-time news feed.

“This is the result of them saying, ‘We need to find a way to more effectively get fresh content up,’” said Danny Sullivan, editor of Search Engine Land and an industry expert. “It does help with the issue of people thinking, ‘Wow, if I need to find out about something breaking, I’ll go to Facebook or Twitter for that.’”

Google tried once before to create real-time search, in 2009, when it introduced google.com/realtime, a service that incorporated Twitter posts that Google paid Twitter to use. But that contract expired in July and the two companies could not agree on terms to renew it, so Google disabled the site.

—*Claire Cain Miller, The New York Times*

Cuba to allow buying and selling of property

MEXICO CITY — Cuba announced a new property law Thursday that promises to allow citizens and permanent residents to buy and sell real estate — the most significant market-oriented change yet approved by the government of Raul Castro, and one that will probably reshape Cuba’s cities and conceptions of class.

The new rules go into effect on Nov. 10, according to Cuba’s state-run newspaper, and while some of the fine print is still being written, the law published on Thursday amounts to a major break from decades of socialist housing. For the first time since the early days of the revolution, buyers and sellers will be allowed to set home prices and move when they want. Transactions of various kinds, including sales, trades and gifts to relatives by Cubans who are emigrating, will no longer be subject to government approval, the new law says.

“To say that it’s huge is an understatement,” said Pedro Freyre, an expert in Cuban-American legal relations who teaches at Columbia Law School. “This is the foundation, this is how you build capitalism, by allowing the free trade of property.”

—*Damien Cave, The New York Times*

Detroit mayor says city may need emergency manager

Detroit, wrestling with a budget gap and a shrunken tax base, may soon require intervention from a state-appointed emergency manager to save itself from financial ruin, Mayor Dave Bing has told other city leaders.

Such a notion would place the city’s finances and operations under the control of an appointed manager only months after Michigan leaders vastly expanded the power of such emergency managers, including giving them the ability to set aside contracts with public workers’ unions.

Bing’s suggestion comes as Detroit, Michigan’s largest city, faces a shortfall in its budget that is estimated to reach about \$150 million early next year and has no signs of an imminent solution.

“An emergency manager is what we want to avoid,” said Dan Lijana, a spokesman for Bing, who briefed City Council members on the issue privately in recent days. “But if we don’t address the \$150 million shortfall, there isn’t another option.”

Critics of the mayor, however, denounced the notion as unnecessary for Detroit and as an empty threat aimed at forcing concessions now from labor unions on health care costs and pension benefits.

—*Monica Davey, The New York Times*

Glaxo to pay \$3 billion in settlement with US

British drug company GlaxoSmithKline said Thursday that it had agreed to pay \$3 billion to settle U.S. government civil and criminal investigations into its sales practices for numerous drugs.

The settlement would be the largest yet in a wave of federal cases against pharmaceutical companies accused of illegal marketing, surpassing the previous record of \$2.3 billion paid by Pfizer in 2009. In recent years, drug companies have been prime targets of federal fraud investigations, which have recovered tens of billions of dollars for Medicaid and Medicare.

The cases against GlaxoSmithKline include illegal marketing of Avandia, a diabetes drug that was severely restricted last year after it was linked to heart risks. Company whistle-blowers and federal prosecutors said the company had paid doctors and manipulated medical research to promote the drug.

GlaxoSmithKline had already set aside cash for the settlement, which analysts said would remove legal uncertainty. The company’s stock rose 2.96 percent Thursday to \$44.55 a share, near its 52-week high, amid a broader market advance of about 2 percent.

“This is a significant step toward resolving difficult, long-standing matters which do not reflect the company that we are today,” GlaxoSmithKline’s CEO, Andrew Witty, said in a statement. “In recent years, we have fundamentally changed our procedures for compliance, marketing and selling in the U.S. to ensure that we operate with high standards of integrity and that we conduct our business openly and transparently.”

The agreement to settle its biggest federal cases should be completed next year, the company added in the statement. It said \$3 billion would settle not only the Avandia case, but also a Justice Department investigation of its Medicaid pricing practices and a nationwide investigation led by the U.S. attorneys in Colorado and Massachusetts into the sales and marketing of nine of its drugs from 1997 to 2004.

—*Duff Wilson, The New York Times*

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In thunder, lightning, or in rain?

ARTSARTSARTSARTS**ARTS**ARTSARTSARTS

The actors are not the only excellent part of the production. The combination of the sound (Christopher D. Smith '12) and lighting (Elaine M. Kung '15) schemes lend immediacy to the setting, chill castles and grim battlefields alike. Indeed, the transformation of the lofty and open La Sala de Puerto Rico into an intimate theater space is itself notable, as is, the success of the stage manager's (Kellas R. Cameron '10) and set designer's demarcation between the outside world of the Student Center, perfumed with Subway sandwiches, and the inside world of Macbeth — supernatural, tragic, and populated with grotesque apparitions and magenta-haired witches.

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Michael Singh is managing director of The Washington Institute and a former senior director for Middle East affairs at the National Security Council.

Daniel Drezner is professor of international politics at the Fletcher School of Law and Diplomacy at Tufts University.

Stephen Van Evera is Ford International Professor in the MIT Political Science Department.

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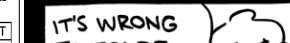
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Solution to Crossword
from page 5

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



SMBC, from Page 6

Solution to Techdoku
from page 5

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

Solution to Sudoku
from page 5

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

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Anderson is new IFC president

IFC Elections, from Page 1

chairs, from different fraternities and an IFC wiki that will contain resources for future fraternity chairs.

"My vision is increased awareness of the fraternal community within the general MIT community and really showing the excellence that goes on," Anderson said.

Anderson also wants to increase dialogue with the Dormitory Council and housemasters. "I'd love to get out there and meet with [housemasters] and hear their perspective and what they think of the IFC," Anderson said. "I know there are a lot of misconceptions about how we operate and how our judicial branch works."

At the next Presidents' Council meeting, Anderson will be meeting with the new executive board on Monday to discuss and prioritize new initiatives and ideas with the fraternity presidents.

"I'm very excited to get started working with the new exec board," Anderson said. "Everyone has a lot to bring to the table, a lot of different skill sets and backgrounds. I'm ready to dive in and start to get things going."

—Joanna Kao

Megamimo wins \$5,000 grand prize

Wellwatcher, Podimetrics run up

Elevator Pitch, from Page 1

Sri Lankan education to reducing the size of voltage conversion chips in mobile phones. Some ideas had already produced patented technology, while others had been conceived just days before the competition.

The winner of the \$5,000 grand prize was Megamimo, a Wi-Fi optimization system. The judges chose Wellwatcher, a landfill methane collection system, and Podimetrics, an ulcer-predicting insole for diabetics as runners up. Each received a \$2,000 prize. The Podimetrics team also won the \$1,000 audience choice award based on text message voting.

Megamimo was pitched by MIT graduate student Hariharan S. Rahul, who worked with fellow student Swarun Suresh Kumar G and advisor Dina Katabi PhD '03. Their idea, which has been in development for two years, uses signal processes that work with existing Wi-Fi protocol to greatly increase the efficiency of data transfer by processing multiple requests simultaneously in the same frequency band. Current wireless systems can allow only a

single transmission at any time in a particular frequency band. "The hardest part was to convey some sense of how it works without going into too much technology in under one minute," Rahul said.

Podimetrics was pitched by Sloan MBA student Jonathan D. Bloom. He and four others developed the idea for a temperature-detecting insole to assess the risk of ulcers in diabetic patients at the Hacking Medicine Competition just a week before the Elevator Pitch Contest. Bloom, who has an MD, said, "As a physician, I love when you can help one person at a time, but I think this is an opportunity to help really large groups of people."

The other two contests in the \$100K Entrepreneurship Competition are the ACCELERATE Contest and the Business Plan Contest. At the end of the finale, MIT \$100K announced that the new ACCELERATE Contest will replace the Executive Summary Contest in the \$100K Competition. Twenty-five teams will receive mentorship and \$1,000 to develop their ideas before competing for a \$10,000 prize. The deadline to register for ACCELERATE is December 2.

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Cambridge City Council candidates, part II

By Adisa Kruayatidee
STAFF REPORTER

Tuesday, Nov. 8 marks election day in Cambridge. On Tuesday we profiled eight candidates for Cambridge City Council, and today we follow up with nine more. The following information was compiled from interviews with the candidates, or, if they did not respond to *Tech* inquiries, information from <http://vote.rwinters.com> (many thanks to Robert Winters!).

PHOTOGRAPHS FROM VOTE.RWINTERS.COM



Gregg J. Moree

- Platform:**
- Innovative planning to solve city problems, such as hydroponic greenhouses (mini gardens that are easily maintained anywhere).
 - Increased funding for public services: firefighters, police, teachers, and emergency medical technicians.
 - Preserve Cambridge’s rich culture, experience, tradition and history as we move forward.
 - Renew City Manager’s contract.



Denise Simmons

- Background:** 6 terms on council, 2008-2009 mayor; small business owner and lifetime Cambridge resident
- Platform:**
- Seniors: access to fully-funded senior centers and reliable public transportation.
 - Creation and retention of affordable housing; aid in finding gainful employment.
 - Support small businesses.
 - Quality education for children: parental workshops, more collaboration between council and school administrations.



Marjorie C. Decker

- Background:** 6 terms as councilor; graduate of Harvard Kennedy School
- Platform:**
- Increase affordable housing options.
 - Support GLBT rights.
 - Consolidate and clarify city resources for Cambridge parents and children.
 - Environmental initiatives involving Cambridge youth (monitor and reporting with city).



Tim J. Toomey

- Background:** 11 terms on council, 2 terms on Cambridge School Committee, State Representative of Cambridge and Somerville, co-creator of Cambridge Energy Alliance
- Platform:**
- Quality of life and public safety: increased bicycle patrols, expanded anti-drug unit, noise ordinances, support for neighborhood initiatives.
 - Reduce expansion of commuter rail traffic through Cambridge; encourage ride sharing, mass transit, and bicycling as alternative transportation.
 - Intelligent expansion of business in Cambridge, especially revitalizing Kendall Square with housing and retail development.
 - Utilizing green technologies (LEED certification standards met for new projects, solar panels for municipal buildings, recycle old building materials).



David P. Maher

- Background:** Current mayor, 6 terms on Council, four terms on Cambridge School Committee; Director of Development for Cambridge Family and Children Services
- Platform:**
- Cooperative neighborhood coalitions: improve zoning requirements, reducing potential density, etc.
 - Improved relations between local businesses and universities.
 - Renewing Cambridge’s public school system with focus on elementary and middle schools.
 - Affordable housing: promote public and private partnerships.
 - Maintain quality public safety services; road and sidewalk improvement.
 - Discussion of possible changes to property tax legislation.



Craig A. Kelley

- Background:** 3 terms as councilor; environmental consultant (Greenpeace, Boston College Law School)
- Platform:**
- Long-term, sustainable housing policy.
 - Fairer and more predictable property taxes.
 - Local neighborhood concerns (overdevelopment, potentially dangerous business uses in residential areas, etc.).
 - Safe streets: citywide traffic enforcement and education policy.
 - Strong school system: budgetary oversight and more teamwork with public school system.



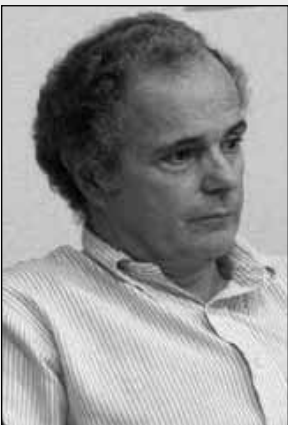
Sam Seidel

- Background:** 2 terms as councillor; background in urban planning (president of board of Margaret Fuller Neighborhood House)
- Platform:**
- Expand early childhood education options.
 - Reduce carbon footprint: encourage more efficient transportation, and make Cambridge a more bike-friendly city.
 - Urban planning: main projects include development of Kendall Square, Central Square, and Massachusetts Avenue corridor. Requires full involvement of neighborhoods and universities. Possible aftereffect to consider: economic competitiveness.



Kenneth E. Reeves

- Background:** 11 terms on council, 3 terms as mayor, 3 terms chairperson of Cambridge School Committee
- Platform:**
- Close achievement gap in public schools, particularly for minority students (are majority of student population).
 - Mentoring initiatives similar to Baby University, program that helps parents of children ages 0–3 prepare for future academic success.
 - Implement final report of mayor’s Red Ribbon Commission concerning Central Square: make Central better place to work, live and play; foster better relations with MIT.



Gary W. Mello

- Background:** Lifetime Cambridge resident
- Platform:**
- Cap city budget at \$450 million per year (5% reduction, return to 2010 spending).
 - Cambridge Health Alliance as baseline insurer for all city employees: keep money in house; will reduce cost of employee health insurance.
 - Transition to new City Manager in March 2012.
 - Affordable housing; alleviate overly populated neighborhoods.
 - Transition to new water supply: Cambridge’s drinking water currently sourced from watershed alongside state’s busiest highway.

PhD movie screening draws over 800 attendees, overflows 26-100

Thursday night, a line of people that extended from Building 26 down the Infinite Corridor to Lobby 10 waited to watch the film adaptation of Jorge Cham's PhD (Piled Higher and Deeper) comics. The majority of the attendees, perhaps unsurprisingly, were graduate students.

Ironically, several PhD students near the back of the line couldn't get there earlier because a meeting with their adviser ran late (Cham often parodies the tension between graduate students and their advisers in his comic). There was an overflow of about 250 people after seating capacity (566) was reached, and many people stayed in the waiting area outside of room 26-100 in hopes of grabbing seats abandoned by early leavers.

The PhD movie is a comedy that follows the lives of four graduate students as they navigate their way through the unique culture of academia. The showing at MIT was followed by a live Q&A with Cham and cast members Evans T. Boney '06 (Mike Slackenerny) and producer Margaret A. "Meg" Rosenberg '07. The movie was first screened on Sept. 15 and is currently showing on hundreds of academic campuses worldwide.

—Kali Xu



KAILIANG CHEN

The Tech caught up with Cham for a video interview yesterday. Look forward to that early next week, but in the meantime, check out a teaser at <http://tech.mit.edu/V131/N50/phd/video.html>.



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THE BARRY M. GOLDWATER SCHOLARSHIP

The Barry M. Goldwater Scholarship and Excellence in Education Program was established by Congress in 1986 to honor Senator Barry M. Goldwater, who served his country for 56 years as a soldier and statesman, including 30 years of service in the U.S. Senate. The purpose of this program is to provide a continuing source of highly qualified scientists, mathematicians, and engineers by awarding scholarships to college students who intend to pursue careers in these fields.

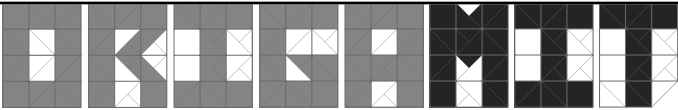
The Goldwater Program provides scholarships of up to \$7500 per academic year. Sophomore scholarship recipients will be eligible for two years of scholarship support. Junior scholarship recipients will be eligible for one year of scholarship support.

If you feel you are qualified for one of these prestigious awards, please discuss this with your academic advisor or your Department Head.

Nominations must be from YOUR DEPARTMENT and are due at the School of Science or School of Engineering Dean's Office (as appropriate to your major) by

Monday, November 14, 2011

For further information:
Contact your Undergraduate Officer,
<http://www.act.org/goldwater/> or <http://web.mit.edu/engineering/goldwater.html>
School of Engineering contact: Maria Marangiello, x3-8012, mariam@mit.edu
School of Science contact: Elaina Burke, x4-5691, eidzenga@mit.edu



Origami Convention

Origami Classes * Origami Exhibition * T-shirts * Fun * Paper Folding! Classes and workshops available for beginners and veterans alike!

Saturday, November 19th
9:00am - 8:00pm

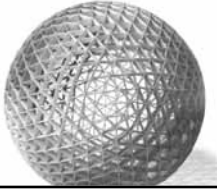
Registration Cost:
MIT Students ----- \$5
Non-MIT ----- \$20
Anyone on Convention Day --- \$30

Register Today!
<http://origamit.scripts.mit.edu/convention.php>

Free screening of
Between the Folds
an Origami Documentary
and 2010 Peabody Award Winner

Followed by Q&A with OrigamiT

Friday, November 4th
7:00pm - 9:00pm
Room 6-120



Graduate Women at MIT
LEADERSHIP CONFERENCE
Discover the Keys to Leadership
November 7-10, 2011

Unlock Your Leadership Potential
Opening Keynote by Christine Furstoss (Technical Director, GE)
Monday, Nov. 7, 5-6 PM, MIT, 32-155

Entrepreneurship Panel
Bettina Hein (Pixability), Daphne Zohar (Pure Tech Ventures), Prof. Rosalind Picard (Affectiva Inc. & MIT)
Tuesday, Nov. 8, 4:30-6 PM, Whitehead Inst. Auditorium

From Unlocked to Unleashed: Leadership In Your Life
Closing Keynote by Lila Ibrahim (Partner, KPCB)
Thursday, Nov. 10, 10-11 AM, Whitehead Inst. Auditorium

* Plus Networking Reception and Workshops!
<http://leadership.gwamit.org>



Price of nano lab TBD

MIT looking for new site after Osborn Triangle falls through

Nanolab, from Page 1

"Our facilities are limited," said Schmidt. "We have known for a long time that we were facing a day when we needed to improve our infrastructure."

According to Schmidt, the new nMaSS lab will have office space and lab spaces housing the "most technically sophisticated" research equipment used at MIT, including clean rooms and ultra-low vibration spaces for imaging.

Planning, design, and site selection for the new laboratory is ongoing.

Chiefly, MIT must figure out where to put the new laboratory. For the past six months, the Institute has been looking at various sites on campus for the location with the lowest possible levels of vibration and electromagnetic interference, which can interfere with the sensitive equipment used in this type of research.

The Osborn Triangle — the site bounded by Main, Albany, and Osborn Streets — was originally thought the most favorable. However, measurements showed high levels of electromagnetic interference because of its proximity to the Red Line.

The Institute is exploring other sites on and around campus but is withholding names until a specific site is selected. Some of these sites are already developed, so the nMaSS lab will likely require the demolition of existing buildings in addition to new construction.

Retrofitting older buildings — as was done to Building 39 in the 1980's — is very difficult, said Schmidt.

There is no building design yet, but there is a rough estimate of the amount of space needed for the new facility. Faculty with nano-research equipment and major labs, like the Microsystems Technology Lab and the Center for Materials Science and Engineering, have given input regarding "how much space they need and what that space needs to look like," said Schmidt.

Though MIT does not have an exact pricetag on the project, Schmidt says these types of buildings are the most costly to construct due to technical requirements.

"We want to maximize its use," Schmidt said. "Planning is critical."

Progress on the lab is constrained by site selection and building design, as well as the fundraising. No date is specified for nMaSS's construction, but researchers are looking forward to using the new space. "Researchers will say that we need it very soon," said Schmidt.

This space donated by The Tech

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UA plans to revamp election system

UA Senate, from Page 1

a write-in candidate, a fact unknown to her until she won the election. “I just didn’t have time for it,” said O’Brien, who was surprised by her election and frustrated that the senate meeting was only one week after she found out. “I would’ve liked to know that I was at least in the running.”

To fix such problems and improve elections overall, Miramonti said that the UA is currently working on its Election Code to “revamp the way [they] do elections.” He said that the current voting system is “based on outdated technology,” and that the voting website “looked like a bad Geocities page.”

The voting system will be getting a “visual facelift” and improved mechanics, hopefully by the spring elections, according to Miramonti. This will allow the UA to have more flexibility with the election process, including possible notifications to write-in candidates of their nomination, which would prevent situations such as the one O’Brien found herself in.

—Bruno B. F. Faviero



The MIT Concert Band performed its annual Halloween Concert in the Student Center on the evening of Sunday, Oct. 30. The performers were in full costume, dressed as characters like Superman, a cowboy, a pirate, a mushroom from Mario Kart, and deadmau5.

Summer Study in The Hague



The Palitz Fellowship for the Study of Dutch Culture and Art


Scope
Spring semester in preparation with a faculty supervisor; followed by summer in The Hague, Netherlands

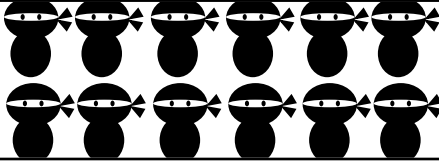
Who may apply?
MIT students may apply no later than the fall term of the junior year. For eligibility requirements and other details, visit shass.mit.edu/palitz

Research areas
Any aspect of painting, history, or culture in the Dutch and Flemish Golden Age, e.g.: the art market; economic history; history of science, horticulture, or cartography; the technologies of print making and book production

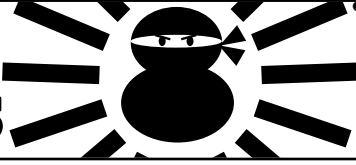
Application process
Application contents include transcript, resume, research proposal, letters of recommendation. For full information and instructions see shass.mit.edu/palitz

Apply by December 9, 2011
shass.mit.edu/palitz

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By Mindy Brauer
DAPER STAFF

Public Service message from SA\VE (Suicide Awareness\Voices of Education)