

Admissions video 'recreates CPW in Lobby 10'



JOSEPH MAURER—THE TECH

Admissions Counselor Chris Peterson directs a new MIT Admissions video — a tour of MIT led by Tim the Beaver set to, and incorporating motifs from, the song "Pure Imagination."

Ambitious goals at State of the Institute

By Janelle Mansfield
STAFF REPORTER

In her Monday morning State of the Institute address, President Susan J. Hockfield spoke about MIT's preparation for the future in four main areas: attracting and retaining high-quality students, faculty, and staff; digital learning technology; encouraging the growth of this region's "innovation cluster"; and making strides in the area of advanced manufacturing.

Hockfield's address was followed by a question-and-answer session with Provost L. Rafael Reif, Chancellor Eric L. Grimson PhD '80, and Treasurer and Executive Vice President Terry Stone SM '76, during which questions centered mainly on budget concerns.

Hockfield began her speech by recapping MIT150, MIT's 150th anniversary celebration, which she said was

"more successful in more ways than I could have imagined." She credited its success to the large amount of participation, and encouraged the audience to visit the MIT Idea Bank (<http://idea-bank.mit.edu/>) to share their feedback about the event.

"Innovation cluster"

One of the main items on Hockfield's agenda for MIT's future is "fostering" the "innovation cluster" in Kendall Square and around Cambridge. This is part of the "MIT 2030" framework — a set of goals MIT hopes to achieve within 20 years. MIT hopes to develop the property around Kendall Square and recruit high-tech companies. Hockfield noted that "Kendall Square has more biotech and IT firms per square mile than anywhere else on

Hockfield address, Page 14

New off-campus places!



CHRISTOPHER A. MAYNOR—THE TECH

Veggie Galaxy, a vegan diner and bakery, is now open in Central square.

Exam season is starting up again! But if you decide to take a study break and get out of the bubble,

Retail, Page 10

IN SHORT

A community reception will be held this Thursday from 3:30 p.m. to 5 p.m. in the lobby of E62 to mark the departure of Executive Vice President and Treasurer Terry Stone SM '76.

Add Date is this Friday. How many classes will you add to your schedule?

The Nobel Prize in Physics will be announced, at the earliest, tomorrow morning. Keep your ears peeled in case an MIT researcher wins!

The MIT Global Education & Career Development office has revamped their website. Check it out at <http://gecd.mit.edu/>.

Did you miss the MIT State of the Institute address? See the online archive video at <http://mitne.us/qswCIU>.

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

REPORTER'S NOTEBOOK

Thousands come together in Occupy Boston protests

By Kit Haines

Last Friday at 6 p.m., several hundred people were already milling about Dewey Square by South Station in Boston. A man with buttons lining his hat took the megaphone to start the chant, "Whose city? Our city!"; Dan, it was explained to me, was an old face at protests in the city.

Inspired by the Occupy Wall Street protests — thousands of protesters have been camping out in New York City since Sept. 17 — Occupy Boston has gathered thousands of people who also want to join in on the discussion about economic equality and democracy. The occupation, which started last Friday in Dewey Square, had drawn almost 2,000 people that evening at its peak,

The Tech estimates.

While there is a general consensus among protesters that things need to change, what exactly this change entails is yet to be determined. They call this occupation a discussion of, by, and for the people: "Our country is owned by the top one percent. We are the 99 percent. Join the conversation!"

As people started filtering into Dewey Square, drumbeats resonated throughout the air, providing some entertainment for the growing crowd. People held signs high with slogans that became iconic of the Occupy Boston movement: "We are the 99%," "No war but class war," "United Against Wall

Protests, Page 12



KIT HAINES

Occupy Boston protesters organize into small groups for discussion. By 8 p.m. on Friday, approximately 2000 people had arrived at Dewey Square for the event.

Nobel Prize comes a bit too late Recipient dies 3 days before award announced

By Lawrence K. Altman
and Nicholas Wade

THE NEW YORK TIMES

When a representative of the Nobel Foundation could not reach Dr. Ralph M. Steinman by telephone Monday to deliver the thrilling news that he had been awarded a Nobel Prize in Medicine for his breakthrough work in immunology, he sent him an email about the honor.

But Steinman would never see the message nor learn of the prize. He died of pancreatic cancer on Friday, three days before the phone call from the Nobel committee. He had been battling the deadly disease for four years, using a treatment he devised to try to prolong his life, essentially turning his body into an extension of his research.

But Nobel Prizes cannot be awarded post-

humously. And so the Nobel committee, which had believed Steinman to be alive, faced a quandary.

On Monday morning, one of Steinman's daughters, Alexis, saw the email from the Nobel Foundation and contacted Rockefeller University, where her father had worked. The president of the university, Marc Tessier-Lavigne, immediately called the chairman of the Nobel Prize committee to inform him.

Then, the committee, at the Karolinska Institute in Stockholm, scrambled to figure out what to do. As heartless as it might seem, would the prize for Steinman have to be revoked?

"This is a unique situation — Steinman died hours before the decision was made," Göran K. Hansson, secretary of the Nobel committee for physiology and medicine, told Swedish

Nobel prize, Page 13

"GOOD GUY OBAMA"?

Not so fast. The president is not the bipartisan figure he may seem. **OPINION, p. 4**

TECH MLB POSTSEASON CALLS

Nick Myers and Carlos Greaves pick apart the upcoming season. **SPO, p. 16**

INSTITUTE DOUBLE TAKE

New Tech photographers show off mad skillz. **CAMPUS LIFE, p. 8**



KEEPING TRACK OF THE PAST

Tech Model Railroad Club is one of the MIT's oldest and most unique clubs. **CAMPUS LIFE, p. 9**

RED SOX COLLAPSE!

Only the worst-case scenario could bring them down. Did it? **SPORTS, p. 16**

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Lies, damned lies, and presidential reduction plans

Obama drops his facade of bipartisanship

By Keith Yost
STAFF COLUMNIST

During the debt ceiling negotiations, President Obama made an offer to Speaker of the House John Boehner that was the epitome of reasonable: in return for lifting the debt ceiling, Obama proposed a \$4 trillion reduction in federal deficits over ten years, split roughly 2-to-1 between spending cuts and revenue increases, with little to none of the cuts occurring in the next two years. Boehner, having waited for this sort of middle-of-the-road compromise for weeks, quickly accepted. And for a moment, I thought it was all going to work out.

Then, things fell apart. Obama changed his mind and said he needed \$400 billion in additional tax increases, possibly more, to make the deal work. Boehner decided he could no longer negotiate with someone displaying such bad faith. Both sides retreated to their barricades and the moment of bipartisanship was gone.

Was Obama's bait-and-switch merely high stakes negotiating gone awry, or something more insidious?

Ever since then, I've wondered — was Obama's bait-and-switch merely high stakes negotiating gone awry, or was it something more insidious — a strategy to find the most generous offer that Republicans would reject so that he could hold it up and claim the mantle of bipartisanship?

Today, I have my answer. One has to look no further than Obama's recently promulgated debt reduction plan to see his full partisan duplicity on display.

The president is offering a plan that, on paper, looks just like the offer seen during the debt negotiations: \$4 trillion, split two-to-one between budget cuts and tax increases, with the first couple years of budgeting left untouched. If only it were so.

This debt plan is — to borrow Rick Perry's turn of phrase — a monstrous lie. In the spending cuts that Obama proposes, he includes nearly \$2 trillion of spending that simply doesn't exist. Roughly \$1 trillion of "cuts" are drawn from the wars in Iraq and Afghanistan, even though this spending doesn't exist in the baseline budget projection, nor is there any plan circulating the Beltway to extend those wars by the decade or two it would take to rack up \$1 trillion worth of spending. The president might as well have offered to save us money by not fighting a war with Italy in 2016. A second trillion comes from the debt ceiling agreement already struck — never mind that the president already traded these cuts for an increase in the debt ceiling; now he hopes the nation will buy them again in exchange for more of his agenda.

As a kicker, the president has proposed these deficit reductions as a means to pay for his new spending plan. So, in the final tally, Obama is only offering only \$245 billion in spending cuts over the next ten years. And what does he want in exchange? A small, temporary tax cut for the middle class, and a permanent \$1.7 trillion tax hike on the up-

per class and other politically convenient targets.

The punditocracy have spent most of their time debating two questions. The first is whether or not the debt plan amounts to "class warfare." It's an accusation that the president deserves — you can't tell interviewers that you would raise tax rates on the rich even if it meant no additional income for the U.S. government, and then act surprised when opponents accuse you of using tax policy punitively.

The second is whether or not tax hikes on high-earners are good economics. I've already written on this subject, and those looking for a refresher course can read Gruber and Saez's paper, "The Elasticity of Taxable Income, Evidence and Implications." Instead of rehashing that debate, I'll leave it at this: I don't think raising taxes on the well-to-do above and beyond their Clinton-era levels is wise, and neither did Clinton.

But both these points are missing the forest for the trees. The president has just stood up and proposed a debt reduction plan which is one half lies and one half liberal wet dream. This is the grand reveal, the tip of the hand that shows us Obama's true nature.

In 2007, I remember watching a C-SPAN forum on the ascension of Dmitry Medvedev to the Russian presidency. Most of the participants remarked that Medvedev was Putin's most loyal and least independent lieutenant, and concluded that Putin elevating Medvedev was simply a convenient way for the wily Russian to circumvent the two consecutive term limit on the Russian presidency. But one of the commentators had an idea so elegant that it seemed to me that it must be true.

I don't think raising taxes on the well-to-do above their Clinton-era levels is wise, and neither did Clinton.

It went like this: Putin, with all of his popularity and power, would have no problem passing a constitutional amendment to allow him to serve a third, fourth, or fifth consecutive term. So why depart the presidency and govern by proxy if he had no real intention of handing over the reins of government? As the theory went, Putin's aim was not to do a mere end-run of an easily changeable law but instead to create a system of checks and balances in the Russian system of government. By taking the typically weak prime minister spot and leaving the presidency to a loyal lieutenant, Putin would have the opportunity to strengthen the prime minister's role in government and make it a real counterbalance to the presidency. So Putin wasn't merely some unscrupulous autocrat; he was a man working in a broken system, using the flawed tools available to him to make it better.

It was a cute theory, and if you looked hard enough, you could find evidence to support it right up to last week, when Putin decided that he, not Medvedev, was going to be the next president of Russia. From then on, there could be no doubt: Putin is, and always has been, a plain and simple dictator.

In 2008, Obama stood up and told me that he was a different kind of politician — that he

What oil subsidies?

Among President Obama's recommendations for fixing the budget is the elimination of \$4 billion per year in "subsidies" for oil companies. This will be the third time the president has made a push for ending oil subsidies and the third time that economists have scratched their heads and asked, "What subsidies?"

Firstly, the oil industry is one of the most heavily taxed sectors in the entire nation. While the average company in the Standard and Poor's index pays an effective tax rate of 28.1 percent, oil companies pay a whopping 48.8 percent. There are plenty of reasons to hate industrial policy, but under-taxation of petroleum is not one of them.

Secondly, taxes, for obvious reasons, are levied on a business's net income after costs, not its gross revenue. This creates a bit of an issue: how does one treat purchases of equipment and other resources that last longer than one year? The normal, non-distortionary treatment is to deduct capital costs according to the depreciation rate of that capital. The oil industry is no exception.

The word "subsidy" implies that the government is writing checks to Exxon Mobil when in actuality, Obama is proposing the elimination of oil companies' ability to take standard deductions available to all businesses. Specifically, instead of being able to deduct the capital and labor that goes into the exploration and development of new oil wells, Obama would prefer that U.S. tax policy ignore these costs altogether and pretend that oil companies are more profitable than they actually are. This is not a plan to replace favorable treatment of oil companies with a level playing field, but a plan to take a field that is already heavily tilted against oil and skew it even further.

"Ending oil subsidies" polls well — that's why Obama keeps reviving the notion. But if the public knew what Obama really wanted to do — raise taxes on the development of new oil resources, that support would quickly (and rightly) evaporate.

was going to do away with politics as usual and unite the country. Like the "Good Guy Putin" theory, the "Good Guy Obama" claim was one that, on a gut level, you wanted to be true. And so I ignored the truth that, in three years of governing, Obama has made just one serious attempt at bipartisanship: the Bush Tax Cuts plus Don't Ask, Don't Tell plus START II plus unemployment benefit bargain struck with 2010's lame-duck congress. Right up through the debt ceiling fight, I held out hope that the president was the man he said he was, doing his best with what he had.

Some lies can only stretch so far.

OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Joseph Maurer, Editor in Chief Ethan A. Solomon, Managing Editor Connor Kirschbaum, Executive Editor Aislyn Schalck, and Opinion Editors Nina Sinatra and Ryan Normandin.

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Police Log

The following incidents were reported by the Campus Police between August 31, 2011 and September 18, 2011. 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.

- | | | |
|---|---|---|
| Sep 8 Bldg. 13 (105 Rear Massachusetts Ave.) 5:12 p.m., Report scooter stolen. Reporting party believes he left the keys in the ignition. Report taken. | Sep 12 Bldg. 10 (122 Memorial Dr.) 11:00 a.m., Bicycle left unlocked in hallway stolen. | Sep 15 Bldg. W35 (Zesiger Sports Center, 100 Vassar St.) 12:20 p.m., Larceny of gym bag, wallet, and car keys from the track area. |
| Sep 8 Delta Upsilon (526 Beacon St.) 3:12 p.m., Backpack was stolen from common area of fraternity. Report taken. | Sep 13 Bldg. W16 (Kresge Auditorium, 48 Massachusetts Ave.) 10:32 p.m., Report of a fight in progress in Kresge lot. Units respond to assist, issue trespass warnings to all parties. | Sep 16 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 7:04 p.m., Laptop was stolen, report taken. |
| Sep 9 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 9:19 p.m., Sector four checks on person. | Sep 14 Bldg. 33 (125 Massachusetts Ave.) 4:03 p.m., Report of a small fire in a car in the hangar area. Fire extinguished, all units clear. | Sep 16 Bldg. W1 (Maseeh Hall, 305 Memorial Dr.) 11:37 a.m., Report of suspicious activity. |
| Sep 9 Bldg. 16 (21 Ames St.) 3:44 p.m., Stolen folding table. | Sep 14 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 1:15 p.m., Violation of restraining order. | Sep 16 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 4:57 a.m., Homeless person issued trespass warning. |
| Sep 9 Bldg. 3 (33 Massachusetts Ave.) 11:00 a.m., Report of parents not being able to locate student. Same found and all OK. | Sep 15 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 11:58 p.m., West car off with one subject. Subject issued trespass warning. | Sep 16 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 12:10 a.m., West car off with one subject. Subject issued trespass warning. |
| Sep 9 Bldg. 8 (21 Ames St.) 8:44 a.m., Items missing from office. | Sep 15 Bldg. W20 (Student Center, 84 Massachusetts Ave.) 11:44 p.m., West car off with one subject. Subject issued trespass warning. | Sep 17 Bldg. W45 (West Garage, 125 Vassar St.) 4:40 p.m., Reporting party states parties on roof of West Garage are harrasing pedestrians walking by. No trespassing issued, all parties released and set on their way. |
| Sep 10 Bldg. W79 (Simmons Hall, 229 Vassar St.) 9:53 p.m., Party reports being harassed by his former friend. | Sep 15 Bldg. W45 (West Garage, 125 Vassar St.) 7:25 p.m., Party reports his car was broken into and GPS was stolen. Report taken. | Sep 18 Bldg. W31 (Du Pont Gym, 120 Massachusetts Ave.) 8:15 p.m., Reports borrowed bike was stolen from bike racks at Building 1. Bike was locked with a cable-style lock. |
| Sep 12 Bldg. NW35 (235 Albany St.) 5:55 p.m., Unlocked bike was stolen from storage area. Report taken. | Sep 15 Bldg. W45 (West Garage, 125 Vassar St.) 10:00 a.m., Reporting party states window was smashed and GPS was taken. Report taken. | Sep 18 Bldg. 50 (Walker Memorial, 142 Memorial Dr.) 11:07 a.m., Larceny of cellphone. |
| Sep 12 Bldg. 50 (Walker Memorial, 142 Memorial Dr.) 3:53 p.m., Report of stolen A/V equipment from area. | Sep 15 Bldg. W89 (Campus Police, 291 Vassar St.) 1:00 a.m., Reporting party fell asleep and laptop was stolen. | |
| Sep 12 Bldg. N10 (155 Massachusetts Ave.) 1:09 p.m., Two suspicious males are attempting to sell items at construction site out of their truck. Units respond. Trespass warning issued. | Sep 15 Bldg. E14 (75 Amherst St.) 2:55 p.m., | |

COMPILED BY JOSEPH MAURER.

Explore the area

Veggie Galaxy, Redbones van set up shop

Retail, from Page 1

you'll notice there are a few things right off campus that have changed since last semester.

- Leisure Station in Kendall Square is now closed on Sundays.

- Area 4, a restaurant doubling as a bakery/coffeehouse and a bar/oven, is now open in Tech Square near Building 46.

- Shaw's/Star Market has an expanded their selection of school supplies and kitchenwares. You can also get a sticker from customer service to put on the back of your MIT ID for an extra five percent off everything.

- All Asia, a popular bar and live music venue, is slated to move into the building that was formerly housed by CCTV at 675 Massachusetts Avenue. Last term, MIT announced that it plans to redevelop the property All Asia currently occupies.

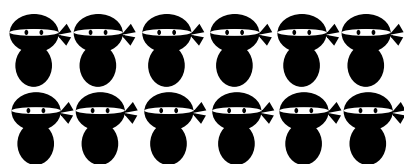
- Veggie Galaxy, a vegan diner and bakery, is now open in Central square.

- Blick's Art Supplies is now open in Central Square near the T-stop, replacing Pearl Arts and Craft Supplies.

- The Redbones food truck, serving southern style BBQ, will now stop in Cambridge on Sundays until Nov. 23 from 11 a.m. to 7 p.m. right outside Harvard at Memorial Drive and Flagg Street.

- Economy Hardware is still not open, despite plans to reopen last spring.

—Stan Gill



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Can evolution explanations be found in slime?

By Carl Zimmer
THE NEW YORK TIMES

Most of the aliens that come out of Hollywood don't really look alien at all. They may have pizza-size eyes or roachlike antennae, but their oddities are draped on a familiar humanoid frame.

If you want to find life forms that truly seem otherworldly, your local forest is a much better place than your local cineplex. It is home to creatures that are immensely old, fundamentally bizarre and capable of startlingly sophisticated behavior. They are the slime molds.

Slime molds are a remarkable lineage of amoebas that live in soil. While they spend part of their life as ordinary single-celled creatures, they sometimes grow into truly alien forms. Some species gather by the thousands to form multicellular bodies that can crawl. Others develop into gigantic, pulsating networks of protoplasm.

While naturalists have known of slime molds for centuries, only now are scientists really starting to understand them. Lab experiments are revealing the complex choreography of signals in some species that allows 20,000 individuals to form a single sluglike body.

The pulsating networks that some slime molds form are giving other scientists clues to solving difficult mathematical problems. In 2000, Japanese researchers placed *Physarum polycephalum* — the name means "many-headed slime mold" — in a maze, along with two blocks of food. It extended its tendrils down the corridors of the maze, bending around curves, reaching dead ends and then backing out of them. After four hours, the slime mold was feasting on both blocks of food.

Andrew Adamatzky, a researcher at the University of West England, has been watching slime molds since 2006, finding inspirations in their growth for designing computer software. One of his favorite hobbies is challenging slime molds to build highway systems. In 2010 he and his colleagues placed a slime mold in the middle of a map of Spain and Portugal, with pieces of food on the largest cities. The slime mold grew a

network of tentacles that was nearly identical to the actual highway system on the Iberian Peninsula.

"If some countries started to build highways from scratch, I would recommend to them to follow the slime mold routes," Adamatzky said.

Despite their name, slime molds are not related to bread mold or the black mold that grows in damp houses. They belong to a separate lineage that evolved from ordinary soil amoebas.

By analyzing the DNA of different slime mold species, researchers are reconstructing their evolutionary history, which turns out to reach back about a billion years. Since all known slime molds live on land, that suggests that they were early pioneers, arriving hundreds of millions of years before animals or plants.

"They may be as old as the terrestrial ecosystem," said Sandra Baldauf, an evolutionary biologist at Uppsala University in Sweden.

Slime molds first came to scientific fame in the mid-20th century with the work of the Princeton biologist John Tyler Bonner. Bonner learned of a North American species of slug-forming slime mold called *Dictyostelium discoideum* and began to raise them in his lab, studying them as a simple analog of animal embryos.

Today, biologists no longer think of *Dictyostelium* as an embryo: It is more like a society of amoebas that come together for a common cause, for which some will sacrifice themselves.

The organisms respond to starvation by rushing together by the thousands into a single blob. The blob stretches out into a slug-shaped mass about one millimeter long (one twenty-fifth of an inch), which then crawls like a worm toward light.

Once it reaches the surface of the soil, the slug undergoes another transformation: Most of the cells turn into a stiff stalk, while the others crawl to the top and form a sticky ball of spores. They stick to the foot of an animal and travel to a hospitable place.

Inside the slug, about 1 percent of the amoebas turn into police. They crawl through the slug in search of

infectious bacteria. When the amoebas find a pathogen, they devour it. These sentinels then drop away from the slug, taking the pathogen with it. They then die of the infection, while the slug remains healthy.

When the slug is ready to make a stalk, more amoebas must die so that others can live. They climb on top of one another and transform their insides into bundles of cellulose. Eighty percent of *Dictyostelium* cells die this way, allowing the survivors to climb up their lifeless bodies and become spores.

David Queller and Joan Strassmann, a husband-and-wife team of *Dictyostelium* experts at Washington University in St. Louis, have found that some strains of the slime mold are natural-born cheats. If they are mixed with other strains, they are more likely to end up as spores than as dead stalk cells.

"Clearly this is not just a weird thing," Queller said. "Those mutations happen all the time."

Research by Queller and Strassmann has revealed some reasons the slime-mold world has not been overwhelmed by these cheats. For one thing, most of the amoebas that form a slug are closely related to one another.

"They're helping relatives," Strassmann said. Even if the slime molds die to form a stalk, many of their genes are passed on to the next generation through their kin.

To help relatives, *Dictyostelium* needs a way to recognize them. Researchers at Baylor College of Medicine in Houston recently figured out part of the way the slime molds tell kin from strangers. The amoebas make a pair of proteins on the surface of their cells, which fit snugly together — like "patches of Velcro," as one researcher, Gad Shaulsky, put it.

Shaulsky and his colleagues reported in July that if these proteins cannot link to each other, amoebas cannot fuse. "They completely ignore each other," said Adam Kuspa, another Baylor biologist.

Dictyostelium belongs to one of the two great branches of slime molds. Its branch is known as the cellular slime molds, because its spore and stalk are made out of many cells.

By contrast, the so-called acellular slime molds do not form slugs. Instead, two cells merge, combining their DNA into a new single-celled organism that just keeps

growing — extending tentacles that can extend as far as several yards. It pulsates to pump food from its extremities to its core, and it can even crawl to search for food.

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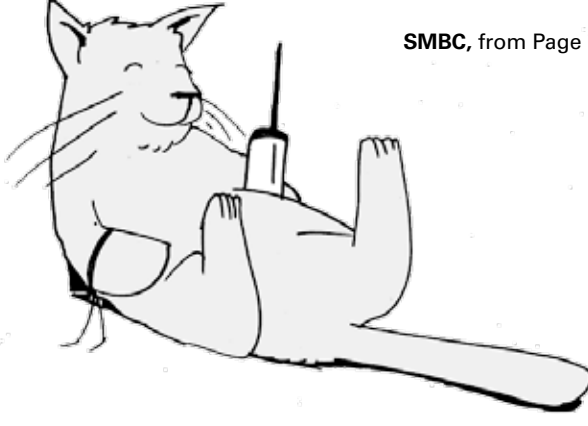
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Dumbing down MIT? Smart Street, amidst the new Novartis campus off of Mass. Ave., is closed indefinitely for future construction. Construction is expected to begin in earnest next year.

JOHN A. HAWKINSON—THE TECH



SMBC, from Page 7

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Solution to Sudoku

from page 5

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

Solution to Crossword I

from page 6

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

Dewey Square packed with protesters

Protests, from Page 1

Street." The police occupying the borders of the square were politely ignored as the crowd began to organize itself.

Organized protest groups come together

Many of the protesters participating in Occupy Boston are also part of other Boston-area activist movements.

Take Back Boston, a joint protest covering Hyatt hotel layoffs, Verizon union disputes, and Bank of America foreclosures, began at 2 p.m. at Boston Common and

on his chest as he relayed his concerns about the Bank of America; the bank gets excessive tax rebates and promotes gentrification by foreclosing homes, he said.

Other groups came ahead of time — in shirts — to put forth their own specific complaints.

A half-dozen people from the T Riders' Union were angered by what they called the "classist" behavior of the MBTA. According to the group, while the MBTA services all of the Greater Boston area, the train lines avoid the poorer areas of the city, which are instead serviced by busses.

Critical Mass Boston, an orga-

that she has missed only a couple of rides since May. It is a "great way to get out and meet new friends," she said.

New York-based Rude Mechanical Orchestra came to Boston to bring musical encouragement to the protest. Although only a small number were present, they played their music as loud as ever.

Protest attracts curious onlookers

Not everyone who participated in Occupy Boston were protest veterans. There were many new faces as well.

Visiting after work on her daughter's advice, Kaitlyn was simply interested in seeing what was happening. Although she wasn't sure she was ready to spend the night, she was curious about "joining the discussion."

Social networking played a big role here. Salma, a resident of Medford originally from Morocco, had read about the protests on Twitter and decided to make an appearance. Students from the Wentworth Institute of Technology had heard about the protest on Facebook.

There were even those who dressed up for the occasion.

A man who went by the name "Boston ScooterDude" scootered up and down the sidewalk with his



KIT HAINES

ScooterDude, angry with the lack of media coverage for Occupy Wall Street, tries to spread the message of the protests in New York. He can often be found riding or windsurfing his scooter around Boston.

ended its march in time for the occupation in Dewey Square.

The Boston coalition of Jobs with Justice, a national network seeking to empower workers and communities, set up a booth for the protesters, marking a stop sign with "Stop Corporate Greed" in a nearby flower pot. They were taking donations, signing people up on their email lists, and selling the newspaper *Justice*, produced by the Socialist Alternative — a national activist organization. Jeremy, who connected with Jobs with Justice at the protest, was wearing one of their small stickers

nized bike group that "reclaims the streets of Boston for bikes" on the last Friday of every month, also made an appearance. Riding through Dewey Square, they were met with supportive cheers from the Occupy Boston protesters. Critical Mass, consisting of hundreds of bikers, stopped traffic as they took to the streets, slowing down and pausing in the square. Many of the bikers seemed fascinated by the protest and mingled with the protesters before taking off. Still others came back later to join the protest.

Emma, one of the riders, said



KIT HAINES

Members of the Rude Marching Orchestra, a radical marching band from New York, supported the protesters at Occupy Boston on Friday by making music that everyone could hear.

sign, "It's all about Free Speech, and Free to be heard!" He attended the protest because he believed

er, and every one of them is just as important to me as the CEOs on Wall Street, and that is how it should be," said ScooterDude.

One man in a suit and top hat was hoping irony would carry the message better. His sign read, "More Prisons Less Schools." With his sign and costume he hoped to "capture some of the absurdity of the state of the nation."

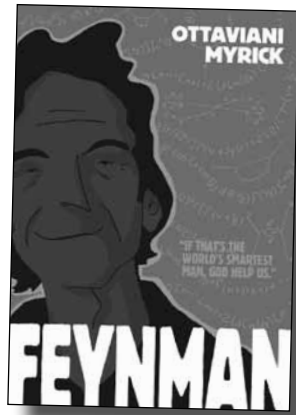
The Protest Chaplains didn't arrive until later, dressed in white robes holding a cardboard sign inscribed with "Blessed are the poor." The Chaplains said their goal was to bring "spiritual, emotional, and mental support to the protesters." Marisa Egerstrom, one of the Chaplains, added, "People of all faiths are invited and welcome to talk with us and join us in the protest."

Over 200 people had attended the first Occupy Boston planning meeting on Tuesday. Since then, the crowd grew at subsequent evening planning sessions. By Friday, almost 2,000 protesters split up into organizational groups: legal, medical, tactical, media, and food.

In a "general assembly" meeting, protestors spoke out with a people's microphone; the crowd repeated the speaker, propagating the message. Hand symbols were used to show support or dissent for ideas, and to save voices for cheers as groups made announcements.

With everyone able to stand and speak, Kaitlyn explained, "It was a chance to be part of something bigger."

One speaker summed it all up nicely: "No one slogan captures Occupy Boston. ... It is a discussion, and everyone has a voice."



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Directors to award Steinman prize despite death

Nobel prize, from Page 1

Radio News after the situation came to light. "News of his death was not made public. We had no idea, nor did they know at his place of work."

The foundation's nine-member board of directors met Monday afternoon and consulted lawyers concerning the interpretation of the statutes of the Nobel Foundation issued in 1974. The statutes hold that the Nobel Prize is not to be given posthumously. But if a person who is announced as a prize winner dies before receiving it at the Nobel ceremonies on Dec. 10 — the anniversary of the death of Alfred Nobel, the Swedish industrialist who endowed the prizes — the award remains valid.

Because Steinman's award was made in good faith on the assumption that he was alive at the time of his election, he should receive it, the directors decided.

The drama seemed to overshadow the fact that Steinman was awarded one-half of the prize, and two other immunologists shared the other half. They were Dr. Bruce A. Beutler of the University of Texas Southwestern Medical Center in Dallas and the Scripps Research Institute in San Diego, and Dr. Jules A. Hoffmann of France. All three scientists were honored for discoveries of essential steps in the immune system's response to infection.

But it was Steinman who actually used his discoveries in the laboratory to try to save his own life. His career-long quest had been to develop a vaccine against cancer for humans, having shown 20 years ago that such a treatment could be effective in mice.

Four and a half years ago, after he was found to be jaundiced from a spreading pancreatic cancer, he

began tailoring an experimental vaccine against his own tumor. The idea was to use the principles learned in the experiments on mice and in the laboratory to produce immune cells derived from his dendritic cells, a class of cells that he discovered in 1973.

After a piece of Steinman's cancer was removed, a colleague, Dr. Michel Nussenzweig, grew it in the

Steinman's award was made in good faith on the assumption that he was alive at the time of his election.

laboratory to produce enough material to send to at least 20 researchers at Rockefeller University and at least five other laboratories around the world. Steinman organized the work among the researchers who developed the experimental vaccine.

Steinman received standard chemotherapy for his cancer as well as the experimental vaccine, which other doctors at Rockefeller University injected under his skin, Nussenzweig said Monday in a telephone interview. Rockefeller University's institutional review board approved the experiment.

"Ralph believed strongly that it would work," Nussenzweig said. "Obviously, it did not work or he would be here now, but possibly it prolonged his life." The research, he added, will continue.

Pancreatic cancer is among the most aggressive malignancies, in part because it arises in a gland deep in the abdomen that is hard for doctors to feel with their hands and because usually it produces symptoms

only after it has become advanced. About 20 percent of patients with pancreatic cancer survive one year after detection and four percent after five years, according to the American Cancer Society.

Nussenzweig and other doctors said it was impossible to determine whether Steinman would have survived as long without his self-tailored experimental treatment.

At the time of his death Steinman was working to develop a general method for making a vaccine that would not need to be tailored to each patient and that could be used against cancer and certain infections. Other vaccines based on dendritic cells are being tested in patients, researchers said.

Provenge, a vaccine against advanced prostate cancer, was based on Steinman's work with dendritic cells. It was approved by the Food and Drug Administration last year and is sold by the Dendreon Corp. of Seattle. (Nussenzweig said that neither he nor Steinman had any connection to Dendreon, financial or otherwise.)

Scientists who knew Steinman and his work said the Nobel committee made the right decision.

"All I can say is that the work deserved the prize," said Susumu Tonegawa of the Massachusetts Institute of Technology, who himself won the prize in 1987 for his work on immunology.

Honored along with Steinman were Hoffman, who was born in Luxembourg, and Beutler, an American. In 1996, Hoffmann discovered the cell receptors in laboratory fruit flies that are activated by pathogenic bacteria or fungi. Two years later, Beutler identified the cell receptors in mice that respond to a substance in the coat of bacteria and that can trigger septic shock if overstimulated. These

receptors turned out to be made by the same family of genes as those in the fruit fly, known as Toll-like receptor genes.

Hansson, of the Nobel committee, said Nobel Prizes have been awarded posthumously twice before: in 1931 for literature to the poet Erik Axel Karlfeldt, and, 30 years later, to Dag Hammarskjöld for peace.

"The situation was a little different then because the committee was aware that the recipients were dead," Hansson told Swedish radio. "The practice now is not to award the prize

to someone who is deceased."

The Nobel committee was not able to make contact with any of the three winners before the announcement was made, Hansson said, adding that the committee normally makes personal contact with the winners before going public with the news.

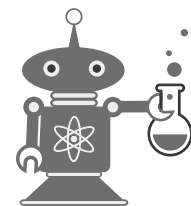
Annika Pontikis, a spokeswoman for the Nobel Foundation, said she did not know whether the board had discussed how to check whether future recipients were alive at the time of their election.

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Kendall to see future growth

Hockfield address, from Page 1

the planet," and invoked some of MIT's corporate neighbors, which include Pfizer, Novartis, ZipCar, and Google.

Microsoft, for instance, is planning to expand its offices in Kendall to 1000 employees by 2012, and the Cambridge Innovation Center has grown from housing 360 startups to 425, half of which are MIT-related. Hockfield calls these firms an "exciting backdrop" to the Institute and hopes to continue to "amplify innovation potential" and create a "more lively and vibrant neighborhood." Cambridge is currently considering an MIT proposal for the development of the Kendall Square area.

Digital learning, manufacturing

Another focus of the speech was digital learning technology — namely, OpenCourseWare. OCW content, which is visited two million times per month, has "revolutionized digital learning" according to the slideshow at the address. Hockfield said the main question now is "how [to] enhance residence-based education by bringing in technology."

Hockfield also brought up MIT's role in the future of manufacturing. Appointed by President Barack Obama as the co-chair of the Ad-

vanced Manufacturing Partnership, Hockfield is working on a national level to develop an idea of what future manufacturing in America will look like. She said that innovation at MIT will help shape "the future of manufacturing." Relatedly, part of the MIT 2030 plan is to build new facilities on campus, such as a nano-Materials, Structures, and Systems (nMaSS) facility, which would house nanoscale materials research.

MIT is acknowledged for having top-tier faculty and staff, but Hockfield — who is serving as a freshman adviser this term — said that undergraduate classes also bring their brilliance to the Institute. While the freshmen are "pinching themselves" that they got in, Hockfield said, she also "can't believe we're so fortunate to have them [at MIT]."

Hockfield also cited the opening of the 460-bed Maseeh Hall as a way the Institute is expanding its student body. The growth in undergraduate enrollment is "an important act of service to the nation and the world" by providing MIT graduates with strong math and science backgrounds, said the president.

Economic growth

The State of the Institute address came with a backdrop of continuing economic uncertainty. During the

Q&A session, Reif stated that the Institute is in "good shape" financially — in fiscal year 2011, MIT reported a 17.9 percent return on the endowment, bringing it from \$8.5 billion to \$9.9 billion dollars.

Reif added that MIT's revenue for research is comprised of 70 percent federal funding, 15 percent domestic funding, and 15 percent international funding. Since federal funding is likely to decline, said the provost, MIT needs to "diversify [its] sources of research funding," including international partnerships.

According to Hockfield, the atmosphere at MIT after MIT150 is "more focused, more committed to our core values and our mission." The Institute has been reminded of its roots and what originally made it great, such as the "power of thinking in the long term," she said.

Hockfield gave several examples of past leaders at MIT who have exhibited great forethought, such as Richard C. Maclaurin, the president of MIT during its move to Cambridge, and George Eastman, the then-anonymous donor who financed the move. Eastman once said, "The future of technology should be big." Hockfield added, "we can only hope this generation will be as visionary about technology," as Maclaurin and Eastman were.

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 is
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A structural component in a shoe or boot consisting of a still midsole that extends back around the heel, designed to provide stability for the foot.

Solution to Techdoku
 from page 5

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

Solution to Crossword II
 from page 7

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

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MIT women's tennis sweeps Babson, 9-0

Engineers remain undefeated against conference opponents

By Lauren Quisenberry
TEAM REPRESENTATIVE

The MIT Women's Tennis team continued their conference winning streak with a 9-0 victory over Babson College. In doubles, at No. 2, Michelle M. Dutt '15 and Julia C. Hsu '14 came off first with a close 8-5 win. No. 1 with Lauren C. Quisenberry '14 and Stasey Vishnevetsky '12 were soon to follow with an 8-4 victory. The toughest doubles match was at No. 3, but freshmen Vynnie J. Kong '15 and Juana C. Becerra '15 pulled out an 8-6 win. In an unofficial doubles match, Hillary E. Jenny

'12 and Alexandra C. Hall '12 lost 8-0 at No. 4 doubles.

In singles, Hsu got things off to a fast start with a 6-2, 6-2 victory at No. 4 singles. Soon to follow was Quisenberry with a 6-2, 6-3 win at No. 1 singles. Dutt received a 6-4, 6-1 victory at No. 2 singles and Kong at No. 5 singles won 6-4, 6-2. Vishnevetsky and Becerra had tough three-set matches that they fought through to win. Vishnevetsky came back after losing the first set 6-1 to win 1-6, 6-1, 6-4. Becerra pulled through her match with a 6-2, 1-6, 6-2 victory at No. 6 singles. In exhibition, Jenny lost 6-3, 6-4 at No. 7 singles. The next conference match for the Engineers is on Oct. 4, when they host Wellesley College.

UPCOMING HOME EVENTS

Tuesday, Oct. 4

Women's Tennis vs. Wellesley College 4 p.m., duPont Courts
Field Hockey vs. WPI 6 p.m., Jack Barry Field
Women's Volleyball vs. Babson College 7 p.m., Rockwell Cage

Wednesday, Oct. 5

Men's Soccer vs. Salve Regina 4 p.m., Steinbrenner Stadium

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