Two new classes will be introduced during the fall semester. The first will replace 6.00 (Introduction to Computation and Programming) and cover its entire curriculum. 6.00 is currently required for Course 9 and Course 20 majors.

6.00.001 and 6.00.002 are meant to cover the same material as 6.00 in a more flexible and accessible way for students with varying amounts of programming experience, according to Professor John V. Guttag, who developed the new classes. 6.00.001 and 6.00.002 are both six-credit half-semester classes, and taking both will count as taking one REST subject.

6.00.001 is offered through the Computer Science Programming in Python, which is designed to help students with little or no programming experience develop programming skills and use computational techniques to solve problems. 6.00.002 is Introduction to Computational Thinking and Data Science, which builds on the concepts learned in 6.00.001 by introducing more advanced topics in programming and computational thinking.

Guttag, who also developed 6.00 in 2005, had been considering making this change for over a year. The primary goal of splitting 6.00 into two classes, he said, was to make it more accessible for freshmen in their first fall and spring semesters. The new credit limit is 5.5 credits in the fall and 5.7 credits in the spring, which prevents most freshmen from taking more than four 12-unit classes in one semester.

The credit limit also makes it difficult for freshmen to explore classes in the specific fields that they are interested in, Guttag said, particularly in engineering and computer science. By turning an introductory computer science course into two 6-unit classes, it is now possible for freshmen to take one half of the course each semester of their first year at MIT.

6.00.001, Page 14

Auditorium. MIT's Materials Science and Engineering Department will be conducting fun demonstrations on the show's opening day. The show is open to all elementary, middle, and high school students, as well as their parents and teachers. Seating will be on a first-come, first-served basis.

Pre-registration for the fall semester opens this Thursday, May 15. Students must pre-register for a C.H.U.R.B. subject by June 16 if they want priority scheduling.

Send news information and tips to neusstech.mit.edu.

IN SHORT

Pair raises $500K, preparing to rain bitcoins on undergrads

For Highlank in New York.

By Austin Hess and Leon Lin

Donors have committed to giving $300 in bitcoins to each of MIT's about 1,000 undergraduates. Jeryl Leung and B. Elitzer, a first-year Sloan MBA student, are spearheading the project, which they hope will sow the seeds of an innovative bitcoin "ecosystem" at MIT.

Rubin and Elitzer said they've secured more than $500,000 in commitments from about 25 donors. Half of the money will come from Alexander Mores '95, who co-founded Hudson River Trading, a high-frequency trading firm based in New York. Rubin and Elitzer met with MIT administrators before announcing their plans. An MIT spokesman wrote in an email that "the administration wishes the project's leaders and participants all success."

Professor Simon Johnson, formerly the chief economist at the International Monetary Fund, said that he was "all in favor" of encouraging innovation in finance and that Rubin and Elitzer's experiment "could be a positive" for perceptions of innovation, noting that the re- cency's credibility has become a bigger concern this year after the bankruptcy of Mt. Gox, once the largest bitcoin exchange.

Bitcoin is a digital payment system that uses a peer-to-peer network to facilitate payments made in units called bitcoins. Members of the network can use an open-source cryptographic protocol to verify payments in return for transaction fees and new bitcoins in a process called mining.

One bitcoin could be bought for about $443 at press time, according to Coinbase, a bitcoin wallet service. The value of one bitcoin rose from less than $15 in January 2013 to a peak of over $1,100 in December.

Rubin and Elitzer's announce ment months in advance is timed to give local businesses a chance to begin accepting bitcoin and to give students and researchers a chance to develop bitcoin-related applications.

"What I'm hoping is that in- frastructure gets sufficiently built around MIT that bitcoin actually becomes a useful commodity to have," Rubin said.

Rubin said, "Everybody has ac cess to the Internet, right — so you want to launch a webapp? Ev erybody can do that. You want to launch a bitcoin or cryptocurrency app? That's a little bit harder ... you can't test it in your immediate friend

Five MIT students win more than a quarter million dollars each through Hertz Fellowship

On April 17, the Fannie and John Hertz Foundation announced the fifteen 2014 Hertz Fellows in the applied physical, biological, and engineering sciences. Of the fifteen Hertz Fellowship recipients, five are MIT students: Ian McKay '12, Elizabeth Y. Qian '14, Andrew J. Rzeznik G, Katharine Schutz '14, and Asmanwar T. Wassie G. The fifteen fellows were selected from a pool of nearly 800 applicants.

According to the press release, the fellowship is considered to be the nation’s most generous gradua te support. Fellows are selected on the basis of their "intellect, their ingenuity and their potential to bring meaningful improvement to society."

McKay is a chemical engineer whose work focuses on energy storage and electrocatalysis, while Qian is an aerospace engineer who studies engineering computation. She will be conducting research at RWTH Aachen in Germany before beginning her graduate studies at MIT.

Rzeznik is a PhD student in mathematics at MIT who focuses his research on mathematical mod eling the troposphere by combining applied mathematics and fluid mechanics.

Schutz, who majored in physics, investigated cosmic inflation and dark matter phenomenology as an undergraduate at MIT. Wassie majored in biological engineering as an undergraduate and has worked on helping create new technologies for controlling and analyzing brain activity.

Each Hertz Fellow is awarded a stipend and full tuition support for up to five years of graduate study. According to a press release, the Fellowship will give each recipient complete financial independence to pursue their individual scientific work or research.

By Patricia Z. Dominguez

IN SHORT

Where were you during the 2012 Boston Marathon bombings? Our Marathon: The Boston Bombing Digital Archive will be at MIT today and tomorrow to collect stories from the MIT community. Our Marathon: The Boston Bombing Digital Archive will be at MIT today and tomorrow to collect stories from the MIT community. Our Marathon: The Boston Bombing Digital Archive will be at MIT today and tomorrow to collect stories from the MIT community. Our Marathon: The Boston Bombing Digital Archive will be at MIT today and tomorrow to collect stories from the MIT community.
Egypt sentences more than 680 to death

MINYA, Egypt — An Egyptian court here on Monday sentenced to death the spiritual leader of the Muslim Brotherhood and more than 680 other people after a swift mass trial on charges of committing acts of violence that included the construction of a police station and the killing of an officer.

Many of those punished, including Mohamed Badie, the spiritual leader of the Muslim Brotherhood, were sentenced to death for lesser crimes, including inciting or inciting acts of violence, after one court turned last month a few cases, as came just a month after the same judge drew condemnation for sentencing to death 219 other people to death in a similarly lightning-fast mass trial.

The judge, Sayyed Yousef, affirmed the death sentences Monday for the former leader. He said the court that the attacker who committed the others to life in prison, which is understood here to mean that they have a long-term sentence subject to appeal. Both sets of trials involved accused in absentia for many defendants who are still at large, and if they are arrested all will receive a retrial.

The speed and scale of the latest batch of sentences, in defiance of international outrage at the earlier case, appeared to underscore the judiciary’s energetic support for the new military-led government’s sweeping crackdown on its political opponents, including Islamist supporters of the ousted President Mohammed Morsi of the Muslim Brotherhood as well as more liberal groups.

—David D. Kirkpatrick, The New York Times

Recovery has created far more low-wage jobs than better-paid ones

WASHINGTON — The deep recession wiped out primarily high-wage and middle-wage jobs. Yet the strongest employment gains have been skewed. Higher-wage industries — like accounting and legal services — passed their pre-recession level. But job losses and gains have been concentrated in low-wage industries, hundreds of thousands of Americans have added only 2.6 million positions during the recovery. But household’s take-home pay has declined through the recession and the recovery to $51,017 in 2012 from $55,627 in 2007, after adjusting for inflation. Fast food is driving the bulk of the job growth at the low end and has replaced good jobs with bad ones. That is the conclusion of a new report from the National Employment Law Project, a research and advocacy group, and a study from 2010 by the Pew Research Center.

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By Ben Hubbard

Syria announces Assad’s bid for re-election as war rages

WASHINGTON — The Syrian government Monday announced that President Bashar Assad will compete in a presidential election scheduled for June 3 that is widely seen as a foregone conclusion, and most expect it will do nothing to stop the war.

The Syrian election comes amid a series of votes across the Arab world that many have hoped would help to bridge gaps between the supporters of Assad’s government, who say he is fighting a necessary war against foreign-backed extremists, and the opposition, which considers him a brutal dictator who must be overthrown.

The news barely made a ripple in opposition areas. "What do you think of this criminal and killer who wants to dress up in a new outfit and say, ‘I’m the legitimate president’" said Tamam Hafiz, an anti-government activist reached through Skype in Aleppo, where she said his home had recently been destroyed by a bomb dropped from a government helicopter.

Speaking of Assad, he cited an Arabic proverb: “He has destroyed it and is waiting for it to be destroyed.”

The lack of reliable polling inside the country makes it impossible to gauge how much support Assad has, although many Syrians have stuck to him, seeing him as a symbol of the nation or fearing that an opposition victory could lead to Islamist rule. The Syrian National Coalition, the group of Syrian exiles that purports to lead the uprising, has failed to gather significant support inside the country and has called the vote a farce.

The Syrian government has given no indication of how it will gather votes from the millions of Syrians who have sought refuge from the violence in neighboring countries, other than saying Syrian expatriates can vote in their embassies. In Turkey has it explained how it will organize voting in areas controlled by armed rebel groups. Instead, the state news media has focused on the strict formality of the process.

The six other people who have announced their intention to run include businessmen, former ministers, members of Parliament and one poet. None have made any public statements about the policies they would pursue nor implied that they would lead the country better than Assad.

By Mark Landler and Peter Baker

U.S. announces more sanctions against Russia over Ukraine

WASHINGTON — The United States on Monday imposed additional economic sanctions on Russian government officials and companies viewed as key to President Vladimir Putin, accusing Moscow of failing to live up to its agreement to defuse the crisis in Ukraine.

The Obama administration ordered travel bans and asset freezes for seven Russian officials, including two said to be in Putin’s inner circle, and three associated with energy companies.

Thirteen Russian companies will also face asset freezes, along with any government that will cut off the export of energy and gas products to the United States.

Additionally, the State and Commerce departments announced a new policy to deny export license applications for high-technology items that could contribute to Russia’s military capability. The two departments will revoke existing export license applications for those licenses, a White House statement read. The European Union plans to follow with sanctions but has not imposed any yet.

Among those targeted Monday was Igor I. Sechin, president of the state-owned Rosneft oil company and a longtime Putin adviser. Although Russia is in clear violation of an agreement with its neighbors, the West has targeted other top partners of Exxon Mobil.

The actions came shortly after the Russian government announced Monday that it had no comment. The actions came after President Barack Obama, traveling in Asia, declared that Russia continues to bully and threaten Ukraine and would pay a price. The fact that the announcement was made on the last day of his weeklong Asia trip underscored the sense of urgency about fears that Russia was destabilizing eastern Ukraine.

By Casey Hilgenbrink

Severe weather threatens southeastern U.S. cool and cloudy in Boston

It’s been an active few days across the Southern Great Plains and the South- east as a multi-day, multi-state severe weather outbreak affected the region. On Sunday, preliminary damage reports indicated that 1.5 million acres of cotton were damaged from Iowa and Nebraska to Arkansas, Mississippi and Louisiana, killing at least 59 people in three states. At the very least, another multi-day severe threat remained as tornadoes touched down near El Dorado and possibly tomorrow for parts of the region that led to the deaths.

Here in Boston, we won’t see any severe weather to worry about, although the same large-scale system associated with this outbreak will likely bring rain into our region tomorrow night into Thursday. Today, the high temperature is expected to be around 47°F (8°C) thanks to breezy nearfreezethread winds and mostly cloudy skies.

Below-average temperatures continue tomorrow, with a high of only 40°F (4°C). Showers are likely to begin poppin up tomorrow afternoon during the heavy rain setting in overnight. This rain will likely continue for most of the day Thursday, which should be warmer, with a high in the upper 50s/low 60s°F (10°C-15°C). Things should dry out Friday and our patience will be rewarded with partly sunny, clear skies and a high temperature in the mid 60s°F.

Extended Forecast

Tonight, mostly cloudy with a high of 47°F (8°C). Northeastern winds at 15-20 mph.

Tonight: Overcast, with a low of 41°F (5°C). Winds from the east at 10-15 mph.

Tomorrow: Overcast, with a high of 48°F (9°C). Easterly winds at 10-15 mph, with an occasional gust up to 20 mph. Increasing chance of showers in the afternoon/ evening with heavier rain likely overnight.

Thursday: Overcast, with a high in the upper 50s/low 60s°F (around 15°C). Rain in the morning and showers likely through the afternoon.

Friday: Partly sunny, with a high in the mid 60s°F (around 18°C).
String of deadly storms hits across Midwest and South

By Alan Blinder and Ashley Southall

ATLANTA — Residents of Arkansas began assessing the damage from a wave of deadly storms that left at least 17 people dead across central and southern parts of the state.

At least 16 of the dead were in Arkansas, where a storm with top winds of 75 miles per hour early Monday was a $14 million interme-

diate storm that was so much more than an hour, was responsible for much of the damage in those areas, and a service was redundant to ensure that those living in the tornado's path were not swept away.

The tornado was the largest of several that swept across the central and southern parts of the state, and a service was redundant to ensure that those living in the tornado's path were not swept away.

The state of Mississippi was waiting to be heard, a three-judge panel of the Ninth Circuit, a federal appeals court, heard arguments over the issue of whether abortion is legal in Mississippi.

Paul E. Barnes of the Mississippi attorney general's office.

“Seems to me you’ve got a steep hill to climb,” Judge E. Brady Jolly said at the outset.

Barnes argued that Mississippi is “surrounded by major metropolitan areas with abortion clinics available,” and that women could go to clinics in Alabama, Louisiana, and Texas.

But judges on the panel pointed out that the crossing of state lines involves target factors than distance.

“The state of Mississippi cannot shift its constitutional obligations to other states,” Judge H. Flynn Jones said.

He also pointed out that Alabama has passed, and Louisiana is considering, similar laws that could result in the shuttering of clinics, which could result in the necessity of women to travel longer distances to access care.

“The fact that a woman was convicted in a main-to-main context of the state — that the law was de-

This means “each state has the same right not to prohibit abortion — Barnes said, “but what was allowed in Alabama should be allowed in Mississippi, too.”

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releases, requests for coverage, and information about errors
will be sent to news@tech.mit.edu. Letters to the editor should be sent to letters@tech.mit.edu. Letters to the Tech
is clarified to state that Evan Tencer did
not speak on behalf of the IFC. IFC president Haldun Anil does not
endorse Tencer's statements.

An article about Phil Sagi's JudComm bearings in the Friday, April 25 issue of The Tech is clarified to state that Evan Tencer did not speak on behalf of the IFC. IFC president Haldun Anil does not endorse Tencer's statements.

OPINION POLICY

Editorials are the official opinion of The Tech. They are written by the Editorial Board, which consists of Chairman Annia Pan, Editor in Chief Austen Hess, Managing Editor Judy Hsiang, and Opinion Editor Jacob London. Dissents are signed by opinion editors and board members choosing to publish their disagreement with the editorial.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to letters@tech.mit.edu. Hard copy submissions should be addressed to The Tech, P.O. Box 397029, Cambridge, Mass. 02138-7029, or sent by interdepartmental mail to Room W26-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. The Tech reserves the right to edit or condense letters, shorter letters will be given higher priority.
Somewhere on the Search for Meaning... by Letitia Li

Still trying to cheer up a grad student...
Look, I'm really worried about how you won't stop working...
You don't understand...
Grad school at MIT is made up of the top students from all around the world...
...and me.

I'm not supposed to have time for hacking...
...social events...
...anything that makes me feel alive.

Even if never leaving lab is what will make you publish a truly groundbreaking paper that will be read as much as the Tech...
...and you become a professor like you've always wanted...

Is it worth it if you spend your life screaming in agony?

Let's go outside!
I won't let you stay here just to drown in misery!

What's the point? There is nothing that can get my mind off of all these failed experiments.

Q.E.D. (QUITE EASILY DONE)
TERMINAL HAS A "SETTINGS" MENU?
WHAT IT ACTUALLY IS
WHOA, I CAN MAKE THE COMMAND LINE TEXT GREEN!

WHAT IT FEELS LIKE
Because I'm too busy worrying that we're going to drown, capsized, get arrested, eaten by crocodiles, or ALL OF THE ABOVE!!!

By Erika Trent

STRANGERS TO FICTION by Deena Wang

I'm depressed.
Sudoku
Solution, page 14

6
5
4
3
2
1
8
7
9

ACROSS
1 Unable to diversify, perhaps
2 Tilt in the wind
3 Trenchant
4 Plea for gentleness
5 Home field of D.C. United soccer club
6 Old school adjunct
7 Groups of runners
8 "Help wanted"
9 Pax Romana year
10 Certain proofs of purchase
11 Elephant charge stopper
12 Cause hysterics in
13 Eats without relish
14 Anderson Cooper, circa 1988
15 Like a hawk
16 Porcelain center
17 React to excitement
18 "Are You Out of His League?", for one
19 "'Tis paid with sighs a plenty, and sold for endless ___": Housman
20 Yarning
21 Really fancy
22 Violations of the First Commandment
23 Sign of a struggle
24 Mixed it up
25 Fluid
26 Sign of a struggle
27 Reef toppers
28 $100 bill background color
29 Zinger
30 Office humor source
31 Ant-farm material
32 Not very bright
33 Subject of a '60s movie remake?
34 Tilt paid with sights a plenty, and sold for endless ___": Housman
35 Yea and nay, say
36 "The Cradle of Civilization"
37 Not very bright
38 "The Cradle of Civilization"
39 Not assured
40 Severely limit
41 Office humor source
42 Go to rest
43 "Are You Out of His League?", for one
44 "Are You Out of His League?", for one
45 "Are You Out of His League?", for one
46 Little bit of a struggle
47 "The Cradle of Civilization"
48 Office humor source
49 Preternaturally strong
50 Fluid
51 "Are You Out of His League?", for one
52 Cicero's father
53 Subject of a '60s movie remake?
54 Taken in
55 Dragonfruit grow on them
56 Mixed it up
57 "Are You Out of His League?", for one
58 Taken in
59 "Are You Out of His League?", for one
60 "Are You Out of His League?", for one

DOWN
1 Yearning
2 Really fancy
3 Eats without relish
4 Anderson Cooper, circa 1988
5 "Are You Out of His League?", for one
6 Like a hawk
7 Porcelain center
8 React to excitement
9 Betrays desperation
10 Violations of the First Commandment
11 Sign of a struggle
12 Perfectly
13 "The Cradle of Civilization"
14 Literary source of "out of sight, out of mind"
15 Reef toppers
16 Scene of runaway nuclear fusion
17 Sight on Disneyland's Matterhorn Bobblehead ride
18 $100 bill background color
19 One with bad table manners
20 Preternaturally strong
21 Fluid
22 Cicero's father
23 Subject of a '60s movie remake?
24 Go to rest
25 "Are You Out of His League?", for one
26 Taken in
27 "Are You Out of His League?", for one
28 Taken in
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60 "Are You Out of His League?", for one

Saturday Stumper by Brad Wilber
Solution, page 14

ACROSS
1 Unable to diversify, perhaps
2 Tilt in the wind
3 Trenchant
4 Plea for gentleness
5 Home field of D.C. United soccer club
6 Old school adjunct
7 Groups of runners
8 "Help wanted"
9 Pax Romana year
10 Certain proofs of purchase
11 Elephant charge stopper
12 Cause hysterics in
13 Eats without relish
14 Anderson Cooper, circa 1988
15 Like a hawk
16 Porcelain center
17 React to excitement
18 "Are You Out of His League?", for one
19 "'Tis paid with sighs a plenty, and sold for endless ___": Housman
20 Yarning
21 Really fancy
22 Violations of the First Commandment
23 Sign of a struggle
24 Mixed it up
25 Fluid
26 Sign of a struggle
27 Reef toppers
28 $100 bill background color
29 Zinger
30 Office humor source
31 Ant-farm material
32 Not very bright
33 Subject of a '60s movie remake?
34 Tilt paid with sights a plenty, and sold for endless ___": Housman
35 Yea and nay, say
36 "The Cradle of Civilization"
37 Not very bright
38 "The Cradle of Civilization"
39 Not assured
40 Severely limit
41 Office humor source
42 Go to rest
43 "Are You Out of His League?", for one
44 "Are You Out of His League?", for one
45 "Are You Out of His League?", for one
46 Little bit of a struggle
47 "The Cradle of Civilization"
48 Office humor source
49 Preternaturally strong
50 Fluid
51 "Are You Out of His League?", for one
52 Cicero's father
53 Subject of a '60s movie remake?
54 Taken in
55 Dragonfruit grow on them
56 Mixed it up
57 "Are You Out of His League?", for one
58 Taken in
59 "Are You Out of His League?", for one
60 "Are You Out of His League?", for one

DOWN
1 Yearning
2 Really fancy
3 Eats without relish
4 Anderson Cooper, circa 1988
5 "Are You Out of His League?", for one
6 Like a hawk
7 Porcelain center
8 React to excitement
9 Betrays desperation
10 Violations of the First Commandment
11 Sign of a struggle
12 Perfectly
13 "The Cradle of Civilization"
14 Literary source of "out of sight, out of mind"
15 Reef toppers
16 Scene of runaway nuclear fusion
17 Sight on Disneyland's Matterhorn Bobblehead ride
18 $100 bill background color
19 One with bad table manners
20 Preternaturally strong
21 Fluid
22 Cicero's father
23 Subject of a '60s movie remake?
24 Go to rest
25 "Are You Out of His League?", for one
26 Taken in
27 "Are You Out of His League?", for one
28 Taken in
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31 "Are You Out of His League?", for one
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**Sudoku II**
Solution, page 14

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

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

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

**Techdoku II**
Solution, page 14

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

```
15x 480x
5x 288x
3
4 1 − 6
3
```

**“Big” Techdoku**
Solution, page 14

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–8. Follow the mathematical operations for each box.

```
63x 6x 23+ 8
24x 252x 20x 9x 3+
64x 9+ 2− 168x
6 28+ 15x 12+
168x 8 1 6x
135x 360x 144x 12x 4
2 28x 56x
5
```

Going beyond the basic challenge of private communication, in the last 35 years, cryptography has become the general study of correctness and privacy of computation in the presence of a computationally bounded adversary, and as such has changed how we think of proofs, reductions, randomness, secrets, and information.

In this talk I will discuss some beautiful developments in the theory of computing through this cryptographic lens, and the role cryptography can play in the next successful shift from local to global and remote computation.

Goldwasser is the RSA Professor of Electrical Engineering and Computer Science at MIT. She is also a professor of computer science and applied mathematics at the Weizmann Institute of Science in Israel. Goldwasser received a BS degree in applied mathematics from Carnegie Mellon University in 1979, and MS and PhD degrees in computer science from the University of California, Berkeley, in 1984.

Goldwasser was the recipient of the Gödel Prize in 1993 and another in 2001 for her work on interactive proofs and connections to approximation. She was awarded the ACM Grace Murray Hopper award, the RSA award in mathematics, the ACM Athena award for women in computer science, the Benjamin Franklin Medal in Computer and Cognitive Science, the IEEE Emanuel R. Piore award, and the ACM Turing Award for 2012. She is a member of the AAAS, NAS and NAE.

The Dertouzos Lecture Series has been a tradition since 1976, featuring some of the most influential thinkers in computer science, including Bill Gates, Steven Jobs, Donald Knuth, John McCarthy, and Mitchell Kapor.

Formerly the Distinguished Lecture Series, the series has been renamed in memory of Michael Dertouzos, Director for the Lab for Computer Science from 1974 to 2001.

For more information: www.csail.mit.edu or 617.253.0145

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Borrowing smart makes for a higher degree of banking.
Rubin, Elitzer secure pledges in plan to distribute bitcoins

Donors have committed $500,000 to undergrads in plan to distribute bitcoins

Rubin, Elitzer secure pledges

Tuesday, April 29, 2014  The Tech

Helping everyone to better understand what bitcoin is and to reform members of the MIT community to begin thinking seriously about how we can live in an age where everything is datafied and can be controlled by computer, “I am supporting them because it is generally an awesome hack, and more specifically I am working to understand how our society can thrive in an age where everything is datalized and can be controlled by computers,” he added.

Elitzer challenged “some of the brightest technical minds of a generation” to come up with novel ways to use bitcoin. Rubin listed secure wallet storage, bitcoin-based bill splitting, and web-based “micropathing” as possible examples of projects he would like to see inspired by the initiative, as well as research into the more technical topics like “colored coins” for network-based ownership agreements and “sidechain protocols” related to alternative cryptocurrencies.

Rubin added, “I think that MIT should be absolutely the center of the bitcoin universe. As a school of thousands of students using bitcoin will highlight the technology’s benefits, which he says “people in the bitcoin community already know.”

Elitzer said it was one of their goals to “highlight” the “positive uses” of cryptocurrencies and related technologies. Professor Alex P. “Sandy” Pentland PhD ’92, director of the Human Dynamics Laboratory at the Media Lab and a faculty supporter of the project, said in an email to The Tech, “I am supporting them because it is generally an awesome hack, and more specifically I am working to understand how our society can thrive in an age where everything is datalized and can be controlled by computer.”

Elitzer said, “While the specific properties of bitcoin have some real problems, getting everyone at MIT to start playing with bitcoin will prompt the MIT community to begin thinking seriously about how we can live in an all-digital future.”

Rubin and Elitzer are aware that some students may decide to cash in their bitcoins in for dollars. “My chief hope is that there is not flux out,” Rubin said, “that the bitcoins stay within the MIT community, or that it keeps on coming in because people buy more.”

He and Elitzer want to see a bitcoin “ecosystem” develop at MIT in which people are not only exchanging bitcoins but also experimenting with related technologies.

According to Morcos, “Bitcoin is so novel, and to the extent that people do use it, it’s really just as a novelty thing… You could go all day or all month and never see anywhere that you could spend bitcoi..."
MIT life from the kitchen sink
The uncertainties of being the wife of a graduate student

By Shuen G. Chong

Surrounded on all four sides by the short, squat buildings of student family housing at MIT, the large, inviting playground is the focus of the view from every kitchen window, presumably positioned to enable mothers to call Johnny, or Ahmed, or Xiao Ming home for dinner. A plethora of languages are spoken here on the playground, but the main language is that of uncertainty.

The esteemed names of top professors inevitably come up alongside discussions about the weather and the kids.

“I don’t know how much longer we’ll be here,” is the usual refrain, followed tentatively, sometimes even furtively by, “depends on his… advisor.” Ah, if only the academic advisors of our husbands knew that the power they wielded over our husbands’ sleep, dreams, and nightmares also presided over the conversations of desperate-for-graduation housewives at the playground.

The esteemed names of these professors inevitably come up alongside discussions about the weather, the kids, and the price of mushrooms. For the international families whose husbands and fathers at MIT are aspiring academics, questions about the future often reverberate back without clear answers.

Four years ago, I left my classroom of mockingbirds, Shakespeare, and gerunds to move thirteen time-zones away and start a new life as the unwitting wife of an academic wannabe. “It’ll be fun!” I thought. I had imagined in my free time, I would attend free lectures in the in my free time, I would attend free lectures in the

In my free time, I would attend free lectures in the in my free time, I would attend free lectures in the...
Joan Jonas to be the US representative at the next Venice Biennale

By Denis Bozic

Joan Jonas, a professor emeritus at MIT and a prominent contemporary artist, has been chosen as the United States’ representative at the 56th International Art Exhibition of La Biennale di Venezia. This is the third time that the MIT List Visual Arts Center, managed by The Peggy Guggenheim Collection and the Solomon R. Guggenheim Foundation, has been designated as the United States’ representative at this event. The recipient of numerous awards, Jonas developed her work from art history studies, which later expanded to various media, and her career has been marked by her ability to evolve and film in the 1960s as a result of her involvement with her New York avant-garde scene. Since then, her art has expanded to various media, and today it encompasses video, performance, installation, sound, text, and drawing.

At Venice Biennale, Jonas will create inter-related, multimedia site-responsive installations that focus on, as she described it in a press release from Arts at MIT, “landscape and natural phenomena” and “the ocean as a poetic, totemic, and natural entity, as a life source and home to a universe of beings.” This body of work at Venice Biennale, a building in neo-classical style, opened on May 4, 1930 and has been owned by the Solomon R. Guggenheim Foundation and managed by The Peggy Guggenheim Collection since 1932.

This is the third time that the MIT List Visual Arts Center is presenting work at Venice Biennale — previous projects include Fred Wilson: Speak of Me as I Am (2003) and Ann Hamilton: My.cn (1999). Nevertheless, this event will be equally important for arts at MIT as it was before — if not even more so. “When you think about all the biennials that occur throughout the world today: the Cairo, the Berlin, the Guangzhou, and the Sin-gapore — to name a few — you can safely say that Venice started the biennial model,” said Ha. “And one can also easily argue that out of all the biennials, the Venice still remains the most prestigious and most sought-after. This is one of the largest honors an artist can receive to represent their country in this hugely attended event — some five hundred thousand people attend the Biennale. So, having a member of our faculty chosen as the most important American artist, as presented by MIT List Visual Arts Center, brings great awareness to the art world that MIT is a place where leading artists teach, exhibit, and develop their talent.”

Ha added, “This being the third time that List has presented at the Biennale is — we believe — unprecedented for one organization.” Ha hopes that 2015 Venice Biennale will help spread the word about MIT List Visual Arts Center to the rest of the world. “As the science labs at MIT are considered to be the top labs throughout the world, MIT List Visual Arts Center too is considered to be one of the top contemporary art institutions in the world. For those working in the field, the mentioning of the List brings acknowledgment and prestige,” he added. This exhibition will hopefully also emphasize the wide artistic talents among the students and faculty at MIT, which is mostly known for its focus on science and engineering. “One prime example is [MIT alumna] Jennifer Allora who went on to represent the U.S. at 24th Venice Biennale,” said Ha. “It is fitting that Joan will now be presented in that same pavilion.”

Restaurant Review

Highland, high score

Highland Kitchen in Union Square is an excellent choice for some casual comfort food

By Daniel Kolodrubetz

It seems that every time I visit the Union Square area, I find a new spot that makes me wish that Somerville neighborhood was closer to campus. Highland Kitchen was a find that reaffirmed that sentiment. With well-executed and unique options of international comfort food as well as a modest and fun vibe, this restaurant is one that I could see myself returning to night after night.

The entrance of Highland Kitchen is dominated by a large and welcoming bar, complete with cheerful bartenders. The décor is dominated by a large and welcoming bar, complete with cheerful bartenders. The décor is bright and crisp, and the lights of the night. Though it didn’t come as spicy, I decided to steel myself and go for the goat stew — possibly due to the illustration on the menu — they take food seriously. My waiter was friendly and accommodating, and the entire staff was primed to work together to give guests the best dining experience possible.

Moving to the main part of my meal, I had to order the ravioli “Cuban Reuben,” which blends two of my favorite types of sandwiches. This Cuban Riff on the Reuben half, as the dish came with a generous amount of pickled cabbage and Russian dressing. However, the flavor of the roasted pork cut through these condiments and gave exactly the right amount of the Cuban kick. What really took this dish over the top was the sandwich’s crunchy grilled French bread, which gave a nice texture to every bite. The bonus on this plate was a thick slice of perfectly crisped hand-cut fries, which I could not stop eating after the first bite just to say, “Wow.” Of course, I soon got over that and polished off the rest.

Highland Kitchen ranks as one of the best restaurants I’ve visited in Boston. With an unpretentious atmosphere and marvelous waitstaff, you will definitely be kept happy while you are there. Although some of the pricier entries break $20, the sandwiches are a steal at around $10. Every dish flavors to come through. The goat was tender and the side of sweet fried plantains complemented the flavor of the stew, giving a respite from the spice whenever one was needed. After finishing off the goat stew, I was tempted to ignore the fact that I was in public and lick the plate clean.

Dessert placed the exclamation point on a divine dinner. Though there are several options, the warm banana bread pudding called my name as soon as the waiter handed me a menu. This delicious combination of banana custard and baked bread covered in a decadent caramel sauce with a scoop of vanilla ice cream, was good enough to make me stop eating after the first bite just to say, “Wow.” Of course, I soon got over that and polished off the rest.

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Highland Kitchen offers a successful combination of eclectic menu and creative ambiance.
Your city's future at MIT.

This weekend at the MIT Media Lab.
Register online now and become a part of your city's solution to climate change.

MIT SUSTAINABILITY SUMMIT sustainabilitysummit.mit.edu
that’s a leader in technology and science fields… it’s kind of a shame that we’re not already at this point.”

Launching the project
Rubin first approached Elitzer with the idea in March. The original suggestion was just to give bitcoins to a select group of students. Elitzer instead proposed giving bitcoins to all undergraduates, to which Rubin agreed. They wanted enough people involved for there to be “network effects.”

Elitzer approached Morcos about the idea at the CoinSummit conference in San Francisco in late March. Morcos said he volunteered to organize the fundraising and reached out to MIT alumni and people he knew “in the world of bitcoin” in an effort to have all the funding committed before announcing the project.

Rubin and Elitzer met with MIT administrators and faculty about their plans in the weeks leading up to the announcement. Their press release lists as supporters, among others, Associate Director of the Media Lab Andy Lippman, computer science professors Hal Abelson PhD ’73 and Frans Kaashoek, and Executive Director of the MIT Kerberos & Internet Trust Consortium Thomas Hardjono.

Rubin said that the timing of the announcement and fall launch date was intended to give students the summer to work on bitcoin-related projects.

According to the press release, Rubin and Elitzer, along with HackMIT, the MIT Society of Women Engineers, the MIT Bitcoin Club, and the College Cryptocurrency Network are organizing the MIT Bitcoin Expo, to be held Saturday, May 3. Rubin emphasized the role of the Society of Women Engineers in promoting diversity at the event and among those interested in the project.

The event’s speakers will include Gavin Andresen, chief scientist and board member of the Bitcoin Foundation, among other important members of the bitcoin community. Rubin said the expo was meant “to give [students] the tools to make something over the summer.”

According to Rubin, the details of how the $500,000 will be managed has not yet been determined. The initiative’s press release stated that the donations would provide for the purchase of $100 in bitcoin for each undergraduate in addition to informational events and the necessary infrastructure to distribute the bitcoins. Rubin said that the technical details of the distribution would be determined over summer, but added that they did not plan to use one commercial wallet service. He added that the bitcoins provided to undergraduates would be purchased shortly before their distribution so that their value would be as close as possible to the target amount of $100 per person.

Morcos emphasized that participation in the program was optional for undergraduates.
Jessica L. Wass—The Tech
Kappa Sigma hosted the Nearly Naked Nearly Mile on April 19, where participants gathered outside the fraternity for snacks and a dunk tank before stripping off extra layers and running almost a mile through MIT’s campus. The clothes participants wore to the event were donated to the American Red Cross and all proceeds from the event went to the Sean A. Collier Self Sponsor Scholarship.

MIT students strip for charity

MIT while also taking four 12-unit classes. “A lot of what a freshman year should be about is choosing a major,” said Guttag. Now that freshmen will have the option of taking 6.0001 in their fall semester, he said, they will be given the opportunity early on to see whether or not they are interested in computer science.

There will now be two different entry points into the 6.00 curriculum as a result of its split into 6.0001 and 6.0002. “People enter MIT with very different exposures to programming and computing,” Guttag said. Students with more programming experience will be able to test out of 6.0001 and go straight into the more advanced 6.0002.

This move is meant to add flexibility to allow all students to be able to spread the classes across semesters as needed, or only take the second half if they have the experience required. Students may still, however, take both classes back-to-back in one semester and still learn the material equivalent to what was originally taught in 6.00.

Professor Guttag has already tested the idea of separating 6.00 into two classes by doing so with the MITx version of the course. So far, he has been pleased with the results. He will be teaching both 6.0001 and 6.0002 over the next two years in order to evaluate general responses to the change from students.

After the preliminary experimental period, the department may offer different flavors of 6.0002 to be tailored to students’ specific interests. This scenario would offer more project sets and projects that align with topics in other fields such as biology or aeronautics depending on which version of the class students take.

6.0001 and 6.0002 are now the classes that have the most digits after a decimal of any offered by MIT. They will be offered to all undergraduates starting next semester.
Graham Francis’ goal clinches win

Stolzenberg contributes to win with two goals and two assists

Lacrosse, from Page 16

the first two tallies a minute apart as Sam Jarvis earned the assist on the first strike at the 8:22 mark. Dylan Freundenberg quickly redirected a feed from Andrew Lawrence while C.J. Hanson capped the scoring spree with just under three minutes left in the period.

MIT’s comeback bid began 29 seconds into the final frame as Orson converted a pass from Harris A. Stolzenberg ’17 for a man-up strike. Goaltie Eric R. Rau
tell ’16 turned away three shots by the Engineers within 1:45, but the Bucs took over with a 3-1 lead at the 3:40 mark. Stolzenberg finished with two
goals and two assists as Joel T. Santisteban ’14 compiled seven groundballs and three caused turnovers. William B. Cyr ’14 went 9-of-16 in faceoffs and posted five groundballs while John L. Kramer ’15 totaled four groundballs and four caused turnovers. Timothy K. Wilczynski ’14 chipped in three groundballs as Bartell produced six saves and five groundballs.

In net, Paul Painten tallied five saves, four groundballs, and two caused turnovers in the first half while Keison Cunningham finished the game for the Buccaneers with 16 saves. Nicholas Foley was the game-winner, with five groundballs.

Massachusetts Maritime won the ensuing faceoff that resulted in a Jarvis shot sailing wide of the net. Moments later, the Buccaneers were awarded an extra-man opportunity; however, a turnover nine seconds in gave the ball back to MIT with 1:32 remaining. Following a successful clear, the Engineers attempted to run out of the clock until Orson found Francis for an insurance marker with nine ticks left.

Stolzenberg finished with two goals and two assists as Joel T. Santisteban ’14 compiled seven groundballs and three caused turnovers. William B. Cyr ’14 went 9-of-16 in faceoffs and posted five groundballs while John L. Kramer ’15 totaled four groundballs and four caused turnovers.

Traub ’17 found the back of the net under pressure from Page 16

Soccer, from Page 16

the two have always been close. Everyone could expect that Guardiola would be grief-stricken with the passing of his good friend, however, he may be filled with more grief than we’d expect.

In Bayern’s match with Werder Bremen this week in the Bundesliga, the cameras showed a glummy and thoughtful Pep Guardiola after his team scored a goal to take the league. His demeanor was enough to sadden anyone watching the game. Guardiola will need to bounce back from his emotional loss — otherwise, Real Madrid will have the upper hand. Nevertheless, the 5-2 win over Werder Bremen will surely boost the confidence of the Bayern Munich players.

This draw is far from settled. Whichever way it goes all depends on Guardiola and how he will control his Bayern Munich. Just a little bit of dynamism will be enough to tilt the tie in their favor.

Chelsea’s defensive tactics pay off in 0-0 tie in Madrid

Atletico Madrid create chances but fail to score

Soccer, from Page 16

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Chelsea vs. Atletico Madrid

While Real Madrid and Bayern Munich battled it out in what was an enjoyable game, Atletico Madrid and Chelsea bored soccer fans. This was mainly due to Jose Mourinho’s tactics as he “parked the bus,” meaning that he had Chelsea solely focus on defending without even considering attacking. Mourinho and Chelsea came to Atletico’s home ground, knowing that Atletico had not lost there this season.

They started creating more chances and piling up on the ball really well. Thus, the rematch advantage for them, as Atletico is known to defend with more grief than we’d expect. Mourinho has the upper hand. Nevertheless, the 5-2 win over Werder Bremen will surely boost the confidence of the Bayern Munich players.

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Real Madrid gain the upper hand with 1-0 win in first leg
Pep Guardiola must sacrifice total possession for chance creation if Bayern Munich is to stay alive

By Ali Soylmezoglu
SPORTS
tuesday, April 29, 2014

The four semifinalists of the Champions League battled it out in the first leg of the matches last week. While Atlético Madrid and Chelsea ended up drawing 0-0, Real Madrid edged one over Bayern Munich to earn a 1-0 victory. There now only stands one more leg between these four teams and the finals. While two teams will earn tickets to the final in Lisbon, Portugal, two teams will face the agony of defeat.

Bayern Munich vs. Real Madrid

Real Madrid managed to pick up a 1-0 win at home with a goal from their Frenchman, Karim Benzema. Although this will certainly provide an advantage for Madrid going into the second leg, Bayern Munich still have it in them to see off their opposition, especially since they will be playing at home. Some may be wondering how come Bayern Munich, who managed to score seven goals against Barcelona just a year ago, is now struggling to find chances against Real Madrid. The difference is in the different strategies that last year’s manager, Jupp Heynckes, and their current manager, Pep Guardiola, use.

Heynckes’ Bayern Munich was much more dynamic and stronger on the attack, always pushing forward and looking to create chances. Pep Guardiola, on the other hand, has always valued possession above anything else in soccer. His Barcelona had perfected the tiki-taka style of play, and he’s trying to employ the same thing with Bayern Munich.

His strategy is working to an extent — he managed to win the Bundesliga with seven games to go. However, it is apparent that if one brings a little bit of pressure and looks to create chances, then Guardiola will be exploited. Real Madrid has flaws in its defense that can easily be exploited.

One last point to make about this match is relatd to the passing of Tito Vilanova, who died at age 45 on April 25 after a battle with throat cancer. Tito Vilanova was Guardiola’s assistant at Barcelona, and

Bayern Munich really can’t create chances.

Bayern Munich managed to score seven goals against Real Madrid, where his strategy failed to actually create chances. Pep Guardiola is accustomed to valuing possession and control over dynamic attacking and chance creation. Perhaps his perfected tiki-taka system is the ideal form of what Europeans call “total football,” but in modern day soccer, the tiki-taka does not work as effectively as it once did, as teams have now started finding ways to work around the strategy.

Real Madrid, on the other hand, make full use of their attacking powers and do not mind not keeping the ball all that often. Their style is based in counter-attacking soccer, but they can also create chances quickly in an organized manner. Thus, they are quick on the attack and able to get a relatively good amount of chances with less possession.

Real Madrid will go into this match with an advantage, and they will be fine with a 0-0 draw. Bayern Munich will find it hard to make use of players like Ribery and Robben as teams have now started finding ways to work around the strategy.

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MEN’S LACROSSE TEAM SURGES FROM BEHIND TO SECURE AN 8-6 WIN
MIT’s six-goal run in the last quarter is enough to lift them over opponent

UPCOMING HOME EVENTS
Tuesday, April 29
Baseball vs. Wesleyan University
4 p.m., Briggs Field

Wednesday, April 30
Baseball vs. Rhode Island College
4 p.m., Briggs Field

Thursday, May 1
Baseball vs. Eastern Connecticut State University
4 p.m., Briggs Field

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