**Christina Tournant, freshman, dies while at home in Florida**

Chancellor speaks at gathering held in her memory

By Katherine Nazemi and William Navarre

**Bitcoin Expo addresses the future of the currency**

By Karia Dibert

**Phoebe Wang’s cause of death determined**

By William Navarre

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**MIT student, police officers testify about Sean Collier death**

By Austin Hess, Sanjana Srivastava, and Drew Bent

Tsarnaev trial's second week sees emotional testimony, new footage

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**Cancer Research and then fleeing**

The trial of Dzhokhar Tsarnaev for the 2013 Boston Marathon bombings and subsequent murder of MIT police officer Sean Collier entered its second week with emotional testimonies and never-before-released evidence about Collier's death.

MIT and Cambridge police officers and a PhD student witness testified Wednesday about the April 18, 2013 shooting of Collier. The prosecution also presented a new video showing two figures approaching Collier’s squad car parked between the Stata Center and Koch Institute's Main Street entrance shortly after 10 p.m. Two figures can be seen walking at 10:25 p.m. from the Ames Street corridor along the path in front of the Koch Institute to Collier’s cruiser at other side. The pair runs up to the cruiser, arriving at 10:24 p.m. A figure leaps into the driver’s seat for a while, at which point a bicyclist comes up the Stata path and passes them.

It was at this time that the Tsarnaev brothers allegedly shot Collier. Then at 10:25 p.m., the two figures emerge and run away. At 10:30 p.m., police officers and vehicles begin gathering around the cruiser.

Nate Harmon, the bicyclist who passed the cruiser and a PhD candidate at MIT, recalled seeing someone by the vehicle. “I just assumed he was an MIT student: young, normal height, thin; he was wearing a dark sweatshirt and a hat,” said Harmon.


When lead prosecutor William Tsarnaev Trial, Page 17

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**NEW EBOLA TEST**

MIT develops new method that could take less than ten minutes for a diagnosis.

**REMEMBERING THOSE WE’VE LOST**

The Tech’s editorial board addresses the tragedies on campus.

**CONVERSATIONS ON MENTAL HEALTH**

Notes from faculty and a message from a student.

**YO-YO MA PAYS A VISIT TO BOSTON**

Check out our review of the great cellist’s performance at Symphony Hall.

**A CAPPELLA CONTEST**

MIT hosts NCCA Northeast Quarterly.

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**MIT’s Oldest and Largest Newspaper**

*tech.mit.edu*
The onslaught of major snowstorms that struck the Boston area in late January and February has left the city just inches shy of the all-time record for snowiest winter. That record of 105.7 snowfall inches, set in the winter of 1995-1996, will be tied if an additional 1.9 inches of snowfall are recorded at Logan Airport before July 1st. In fact, the record has a chance to be broken this weekend, as a low pressure system will bring moisture from the Gulf of Mexico north to New England in the form of rain and snow. At this time, it appears most likely that the storm will begin as a mostly-rain event on Friday night or Saturday morning before a possible changeover to snow showers on Saturday night or Sunday. Although above-freezing temperatures may make snow accumulation challenging during this storm, there may be another chance for the record to be broken as snow showers move through the area on Monday night.

In the short term, a significant cooldown is occurring in advance of the weekend storm, with brisk winds ushering in cold air from the northwest. This will cause today's high temperature to be around 20°F (−7°C) cooler than yesterday’s.

Extended Forecast

Today: Windy and mostly sunny, high 36°F (2°C). Winds NW at 20-30 mph.
Tonight: Breezy and clear, low 20°F (−7°C). Winds NW at 10-15 mph.
Tomorrow: Partly cloudy, high 38°F (3°C). Winds becoming S, at 5-10 mph.
Saturday: Rain and possible snow, highs near 40°F (4°C).
Sunday: Snow and rain showers possible, highs in the mid 30s °F (3°C).

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President Reif and Chancellor Barnhart express sympathies
Many faculty and staff members choose to lighten class workloads, postpone problem set due dates

Tournant, from Page 1

shame in asking for help and support.” Tournant’s death came less than a week after the death of Matthew L. Nehring ’18, which Reif announced on March 1.

“Four days ago, we gathered in lobby 10 for a similar reason,” Barnhart said. “Coming together, [the deaths] are a terrible blow,” she said.

Faculty members have also addressed the deaths in lectures and emails. “These heartbreaking losses are impossible to fathom. ” Professor George C. Verghese wrote to 6.011 students. “We are unlikely to ever have the answers we might want, not having walked in their shoes. That doesn’t stop our questions, and our wondering what might have made a difference — and what might still make a difference to others in despair.

“But at a time like this it is also important to — and perhaps impossible not to — reflect on life, and on what matters to us, individually and together.” Verghese canceled Wednesday’s 6.011 lecture and said students did not have to turn in one of the class’s problem sets. He also invited students to visit the Harvard Art Museums with him.

In an email to his 18.06 students, Professor Gilbert Strang wrote: “In class I also had an opportunity to say a few words about the sad events of last week and the support I feel for all of you from the President down, the faculty wants only good for every one of you. Please let me know any time I can help you.”

Other instructors also expressed similar sentiments and decided to lighten their classes’ workload this week. 18.06 and other classes pushed back problem set due dates, and some classes, including 6.01 and 6.006, made tests scheduled for this week optional.

Members of the MIT community who feel affected by the deaths can access MIT student support resources and Mental Health Services at http://together.mit.edu, or via phone at 617-253-2916 during the day and at 617-253-4481 during nights and weekends.

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Financial aid budget, exceeding $100 million, is highest ever

MIT will allocate $103.4 million to undergraduate financial aid next year, the MIT Corporation announced at a meeting on March 6.

This marks an 8.8 percent increase from the 2014-2015 budget and is the first time that MIT’s undergraduate financial aid budget has exceeded $100 million.

According to MIT, next year’s budgeted increase reflects a commitment of $3.2 million to reduce the “self-help” portion of MIT’s financial aid package, which students generally contribute through loans and earnings. The current aid package includes a $6,000 “self-help” contribution.

A 3.75 percent increase in undergraduate tuition and fees was also announced by the Corporation. According to an MIT news office release, Dennis Freeman PhD ’86, the dean for undergraduate education, said the $103.4 million financial aid budget will both cover this increase and “lower the net price for all students with financial aid.”

Fifty-nine percent of MIT’s undergraduate population receives need-based financial aid from the Institute. Thirty-two percent of undergraduates attend MIT tuition-free.

MIT’s financial aid budget has increased steadily since 2000, when it amounted to $30.5 million. —Jennifer Switzer

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ELLIPSIS TRIO
PIANO TRIOS
by Charles Ives, Igor Iwaniec, and Arthur Foote
Kefan Hsieh MIT 30 Memorial Dr, Cambridge, MA ellipsistrio.com
In fade's wake, we reeel. One stuent said that “the whole campus is just a sea of blue today.” Everything seems fragile, so we cling together. We’re a little weaker. We hold the door open. We say hello to people who we believe to talk about the ones we lost. We’re half-way even when they’re slightly too far away.

We wonder whether we should blame ourselves, whether we somehow let one of two, three, four, five people get away. We try to find the thread of pain. Did it feel greater than the pain of the loved ones who would be left behind?

In tragedy’s wake, we demand answers. We cry for a solution, something, anything even before we know what the problem is.

We look for patterns, for culprit. We talk, as we should, about medical leave and MIT Mental Health. About resources and committee and awareness and student trust. We talk about the families of the loved ones who were left behind.

In tragedy’s wake, let us remember.

These conversations, which are unfolding in The Tech and elsewhere, are essential. We must try to find solutions to the problem. We must recognize the things we’ve tried to fit the stories of those we’ve lost into a particular narrative. Christina and Matthew were individual people in unique situations. Let us be careful not to assume that these tragic losses resulted from coursework overload, inadequate support services, or a toxic team. Instead, in tragedy’s wake, let us remember them.

In the past few weeks, he had begun a downward spiral in his mental health after a horrific breakup, and I knew that self-inflicted harm was not a foreign thought to him. The sudden realization that I might lose him incapacitated me.

Thank this god did not end in death. When I regained my composure, I scrambled to my friend’s room and put him on the phone with MIT Mental Health. After several sessions, appropriate medication, and copious amounts of time, he recovered. But not everyone was this lucky.

There were two apparent suicides last week at MIT, adding to four others confirmed in the past 12 months. Last year, there were four confirmed cases at Penn and suspected suicides at Columbia, Princeton, Dartmouth, Yale. Of all these people we had personalities, friends, families. Yet all of them had become statistics because suicides at elite institutions are no longer an anomaly. High rates of depression have become an accepted anomaly. I think fundamentally this is not right. This is not a solution. It is not a solution. It is not a solution.

My sophomore year, I began my own battle with depression. It crept up so slowly that at first I attributed it to stress over my schoolwork. Then to missed meals from my school depression. Then it was impoverishment over my grades, emotional anxiety from my relationship, strained with my parents. I told myself over and over, it’s just a phase. But then several months passed. I stopped seeing friends, stopped attending commitments, lost motivation to do anything but sleep. Excessively I ran out of excuses. All the causes I had attributed my depressive moods to had become the effects. I was already living in depression, and I recognized it when the realization slammed into me. I knew I was depressed.

For me, the scariest part of depression was not the isolation or even the thought of the loved ones who would be left behind. It was always the questions, the planners, the unknown. We know we would like to see people during their successes, sometimes cry with them during their failures. But depression is subtle and, when we are too busy to be present for each other’s day-to-day, it goes unnoticed until it may be too late.

Since then, I have been part of the The Tech’s editorial board, choosing to publish with their disagreement with the editorial board’s opinions. Letters to the editor, columns, and editorial cartoons are written by individuals and represent their personal views, not necessarily that of the newspaper. Electronic submissions at [letters@tech.mit.edu] are preferred and should be of the following form:

5. References:

6. Corrections:

An article about a recent production of the Boston Ballet. Lady of the Camellias, incorrectly attributed the book that the ballet was based on to Alexandra Dumas, who is famous for writing The Three Musketeers and The Count of Monte Cristo. The book, La Dame aux Camélias, is in fact written by Dumas’ bastard son, who was also named Alexandre Dumas.

Guest columnist are opinions of individual members of the MIT or local community.

To reach us:

The Tech’s telephone number is (617) 253-1545. Email is the easiest way to reach any member of our staff. If you are unsure whom to contact, send mail to general@tech.mit.edu, and it will be directed to the appropriate person. You can reach the editor in chief by emailing editor@tech.mit.edu. Letters to the editor should be sent to of the Tech. The Tech can be found on the World Wide Web at http://tech.mit.edu.

Under no circumstances should a letter contain any获奖 or medium format known or later that becomes known. The Tech makes no commitment to publish all or any other format. Guest columns are opinions of individual members of the MIT or local community.
An open letter to students

By Karen Hao

Karen Hao is a member of the Class of 2015.

Editor’s Note: On Oct. 19, 2014, Professor Belcher shared his personal experiences in dealing with depression. We have all come to MIT because we are, where we are and what we are doing. We have all come to MIT because we are seeking some deeper understanding of ourselves and our world. This quest is not an easy one and, very frequently, challenging in ways we do not expect. Sometimes our re- sults fail to match our expectations, and we have failed or are unusually. In the normal course of life, our unvarnished feelings usually diminish. Sometimes, however, they don’t go away. The way we feel is how we can be, who we are, and how people around us perceive us. The April 10, 2012 issue of The Tech carried an article by Grace Taylor ’12 that I greatly admired: http://tech.mit.edu/V132/ N7-depression.html.

The purpose of this letter is to address depression and how it deals with it. Her article inspired me to write an article on the same topic from a faculty point of view. Why? Because there is a stigma attached to having been clinically depressed and being on anti-depressants (as I am). That stigma is undeserved, and many people who should embrace such treatment instead avoid it. The more open people like Grace and I are about our experiences in dealing with depression, the more acceptance of those treatments there will be. Near the end of the ’80s, I was doing well. I had a stable marriage and two wonderful children, and I was a professor at MIT. I moved to Cambridge, Massachusetts to study Physics Professors, and Principal Investigators on an instrument on the Voyager Outer Planets mission to explore Jupiter, Saturn, Uranus, and Neptune, with a Neptune encounter coming up. Then I was diagnosed with a malignant melanoma. Its thickness was such that the chances it would metastasize were about 1 in 4. At that time, metastasized melanoma was a death sentence. I thought what processes—juggling a million things at once in my head—my life style in my first life I could not live another day. I soon realized what “living in the day” meant. The best tool I could make each morning was a sort of ranked list of the things I had to do. I could imagine doing all the things I could do if not busy. I could just forget everything except the one on the top of the list. Considering the full list for even a second was just overwhelming.

It was the perfect storm. My physical coordination went. My thought processes became disordered. It was the perfect storm. My physical coordination went. I had a hard time, for example, simply reciting the Pledge of Allegiance. I became lethargic, and had a hard time getting out of bed in the morning. Sleeping all the time seemed like a good option. I retained a certain detachment as I was sinking into depression. “So you’re depressed?” I was asked. And I would reply, “I am depressed” I would say to myself. I cannot imagine what it is like unless you have been there. I have always had hyper-active thought processes—juggling a million things at once in my head—I could not live another day. I soon realized what “living in the day” meant. The best tool I could make each morning was a sort of ranked list of the things I had to do. I could imagine doing all the things I could do if not busy. I could just forget everything except the one on the top of the list. Considering the full list for even a second was just overwhelming.

I started seeing a psychiatrist, who sedulously diagnosed depression and recommended an anti-depressant. I was reluctant. I was raised in Texas and had a macho attitude. Real Texans don’t take Prozac. But I sank further into depression, became less and less functional. I realized that I had no choice. I had to do something. The well-behaved of my children depended on me in my being a reasonably functioning adult, and I was far from that state. So I started taking Prozac.

I know that there are those of popular press these days about anti-depressants not just being effective, but real for some people, but nothing could be further than the truth for me. I could immediately see the difference in my mental processes two years after I started taking Prozac. I describe it as like being in a room full of a huge amount of static background noise, that makes it impossible to think, and then someone walks into the room and turns the volume down. I could think logically again. I could recite the Pledge of Allegiance. My physical coordination returned. Life became tolerable. It was a great, but tolerable. That made it possible to slowly start dealing with the situa- tion I was in.

These events took place more than 20 years ago. I am now happily remarried. My children are now 34 and 37. I am definitely not currently on Prozac, as a prophylactic. Since I am a Texan and by definition should be not great, but tolerable. That made it poss- ing Prozac. But I sank further into depression, became less and less functional. I realized that I had no choice. I had to do something. The well-behaved of my children depended on me in my being a reasonably functioning adult, and I was far from that state. So I started taking Prozac.
[1496] Art Project

I’m doing an art project where I take a picture of myself every hundred years.

I’m doing an art project where I take a picture of myself every 1/24th of a second.

I’m doing an art project where you can come to my house and watch my actual face age in real time.

I’m doing an art project where you all do these things while I eat a burrito.

It’s my most ambitious project yet. Judging by the amount of guacamole.

[1495] Hard Reboot

Figuring out why my home server keeps running out of swap space and crashing:

PLUGGING IT INTO A LIGHT TIMER SO IT REBOOTS EVERY 24 HOURS:

1-10 hours

5 minutes

Why everything I have is broken

Dear Prof. Smith, I’m feeling sick today.

I have Saturday═seven.

No problem. How about Sunday?

~Smith

www.phdcomics.com

www.phdcomics.com

You should be writing.

I should be writing.

I should be writing.

I should be writing.

This message brought to you by that manuscript you’re supposed to be writing.

A webcomic of romance, sarcasm, math, and language
by Randall Munroe

Piled Higher and Deeper
by Jorge Cham
Sudoku I

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.

Techdoku I

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.

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.

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.

Saturday Stumper by Lars G. Doubleday

Solution, page 13

ACROSS
1 Fallen seed, often 40 Kick back
12 Rating for cover applications: Abbr. 41 About 90% of new US homes have them
16 Pan, for instance 42 Playwright who wrote in Danish
17 Certain massage recipients 43 Humble
19 The Apple __ (Tasmania nickname) 45 She followed Julie and Liza in Broadway’s Victor/Victoria
20 Grammarians’ concern 47 Certain massage recipients
21 Where La Bohème premiered 48 Inspiration for American Hustle
22 A as in Andalusia 50 Person driven
23 High school subject? 52 1948 Literature Nobelist
25 Put on again 53 Strip alternative
27 Tray labels 54 More sound
30 Close 57 Underestimates, say
31 Call aon 58 Forward
34 Fleet encouraged by Longfellow 62 Don Giovanni pronoun
36 “... lack thereof” 63 Copying
37 1-800-__-LEARN (Department of Education’s phone number)

DOWN
1 All wrong 39 Opposite of 1 Down
2 Dissect, in a way 44 Rips into
3 Flat from overuse 46 Mother Jones employer: Abbr.
4 Prince Andrew’s younger daughter 48 Inspiration for American Hustle
5 Fold opening 50 Person driven
6 Hook-and-loop product 52 1948 Literature Nobelist
7 Bright flash? 53 Strip alternative
8 Double in baccarat 54 More sound
9 Life of Pi cover illustration 57 Underestimates, say
10 Band hanger-on 58 Forward
11 ‘60s “meet your secret admirer” game 62 Don Giovanni pronoun
12 2014’s highest-paid female athlete, per Forbes 63 Copying
13 Jobs in a digital workplace? 66 Utmost
14 It has the lead 67 Function runner
21 Where La Bohème premiered 68 Stem of a plant
22 A as in Andalusia 69 Opposite of 1 Down
23 High school subject? 70 Opposite of 1 Down
24 Certain targets, collectively 71 Opposite of 1 Down
25 Put on again 72 Opposite of 1 Down
26 One with a big mouth 73 Opposite of 1 Down
27 Tray labels 74 Opposite of 1 Down
28 Modern bibliography components 75 Opposite of 1 Down
29 They covered Atlantis 76 Opposite of 1 Down
30 Close 77 Opposite of 1 Down
31 Call aon 78 Opposite of 1 Down
34 Fleet encouraged by Longfellow 79 Opposite of 1 Down
36 “... lack thereof” 80 Opposite of 1 Down
37 1-800-__-LEARN (Department of Education’s phone number)
UPPERCUT by Steve Sullivan

ABOUT-FACE by Billie Truitt

SOLUTION, page 13

ACROSS
1 Garbanzo or lima
5 Police dept. alerts
9 Quarterback’s throw
13 Intense devotion
15 Big family
16 Die’s solo
17 Took the car
18 Big brass horn
19 Half a quart
20 Renege
23 Before, in poetry
24 Pig’s sound
25 Golf-score standard
26 Netflix delivery
27 Racetrack informant
31 Loosen, as laces
34 Foal’s mother
36 Poetic tribute
37 Loan for home-owning seniors
41 Republicans, for short
42 Military group
43 Walked through water
44 Part of Great Britain
47 Heavy mist
48 Ancient
49 Hits the road
51 Tooth docs’ org.
54 Order-filling intervals
58 Imitated
60 Chapters of history
61 Try for a job
62 Commotion
63 Keep for later
64 Itinerary
65 Author unknown: Abbr.
66 Venetian blind strip
67 Small quarrel

DOWN
1 Cop’s ID
2 Wrong move
3 Sun-dried brick
4 __ Scotia, Canada
5 Heard, as advice
6 Drop (down), as cash
7 “All __ and the Forty Thieves”
8 More lively
9 Daily publications
10 Bone-dry
11 Perform a tune
12 Overfill
13 Get one’s strength back
21 Baby goat
22 Once around the track
26 Cube rolled in a casino
27 Easy run
28 Frog’s relative
29 Boundary
30 Swamp stalk
31 Advise strongly
32 Advertising sign gas
33 Prime-time family viewing rating
34 Pitch up
35 French friend
36 Woman’s summer frock
37 Advertising sign gas
38 So-so, as a film review
40 Comedian’s joke
45 Capital of 44 Across
46 Pie __ mode
47 Give lunch to
49 Tropical jam fruit
50 Beginning
51 Intensify, informally
52 River mouth
53 So far
54 “Bye-bye!”
55 “Once __, a time . . .”
56 Overhaul
57 Spoken aloud
58 Stock-market debuts, for short

I HOPE NO MATTER HOW MUCH TIME YOU SPEND PRINCIPALLY ON WORKING IN LAB OR LANCING TESTS EVERY WEEK, YOUR WORK NEVER BECOMES AS IMPORTANT TO YOU AS YOUR LIFE.

I HOPE WE CAN LOOK OUT FOR EACH OTHER AND MAKE THE MOST OF THE TIME WE SPEND TOGETHER.

I WISH TO THANK THE FIRST MATERIAL CONTRIBUTING FROM THE READER IN SORROW. I SAW THE GIRL WAKING ANOTHER, SISTER OF THOMAS’ SLEEP, JUST WATCHING THERE.

I WATCHED THE START OF THE FIRST RACETRACK INFORMANT FROM THE READING IN SORROW. I SAW THE GIRL WAKING ANOTHER, SISTER OF THOMAS’ SLEEP, JUST WATCHING THERE.

I’M WEARING THE IRONIC COMIC I KNOW WILL BE A FEW YEARS AWAY FROM POINTS OF MEMORIAL SERVICES AND ARTICLES ABOUT PEOPLE WE’LL NEVER SEE AGAIN.

IT’S A FEELING I’VE BECOME A LITTLE TOO FAMILIAR WITH IN THE LAST FEW YEARS.

IT’S WEIRD BEING Homework And going to class with tragedy going on around me.

WE TALK ABOUT WORK-LIFE BALANCE A LOT MORE OF US SHARE IT, SOME WONDER IF WE’RE EVER FINDING IT WHEN WE’RE NOT.

ALTHOUGH THERE’S A LOT MORE GOOD ON WITH OUR RECENT LOSSES THAN THAT, I CAN SPEAK TO GIVE THINGS.

I NEEDED THIS END TO WORKS, BUT WHAT ARE YOU SUPPOSED TO DO?
Expo addresses bitcoin trading and regulation

Litecoin creator says bitcoin will trump other currencies

**Bitcoin Expo, from Page 1**

base, a bitcoin wallet and exchange service.

Lee spoke on the “nature of money” and said he believes cryptocurrency represents money’s best form. “I paid for my flight using a currency [Litecoin] I created three and a half years ago,” he said. “I think this deserves an achievement unlocked!”

Other Saturday speakers discussed bitcoin regulation, general accessibility, value fluctuation, and trading. “Mastering Bitcoin” author Andreas Antonopoulos discussed bitcoin’s public perception in the media and the benefits of the current bitcoin mining system.

“It’s not about bitcoin succeeding,” Antonopoulos said in response to a question about plans to transition from today’s financial system to one based on bitcoin. “It’s simply about bitcoin surviving while the entire world economic system collapses in ashes around it.”

Gavin Andresen, a developer of the bitcoin protocol and chief scientist at the Bitcoin Foundation, delivered Sunday’s opening keynote. He discussed some of the technical changes that bitcoin would have to make in order to handle worldwide demand for transactions.

Other Sunday speakers discussed current and future bitcoin technologies, as well as challenges like scalability, proof of payment, and security. Armory Technologies developer Andy Olfesh talked about the advantages of a decentralized proof-of-payment system, and bitcoin core developer Peter Todd explained how bitcoin’s payment verification structure can be scaled up indefinitely.

Sunday also included student project presentations, including one from Sam Udotong ’16. Udotong presented his app, Fireflies, a person-to-person delivery service that uses bitcoin payments. Udotong and his team won the Awesome Award in last year’s MIT Bitcoin Competition (BitComp).

The expo wrapped up on Sunday afternoon with remarks from the presidents of the Wellesley and MIT bitcoin clubs.

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**DATE:** Wednesday, March 18, 2015  2:30–4:00PM

**LOCATION:** MIT Stata Center 32–G449/Patil Conf. Room

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MIT COMPUTER SCIENCE & ARTIFICIAL INTELLIGENCE
CONCERT REVIEW
Yo-Yo Ma and the Silk Road Ensemble
By Ray Wang

World-renowned cellist Yo-Yo Ma has done more than create music with his Silk Road Ensemble — he’s united the world with an innovative approach to cross-cultural exchange. His eclectic group, which performed at Symphony Hall as part of the Celebrity Series of Boston last Wednesday, consistently pushes the borders of music. Featuring instruments, composers, and musicians from every corner of the globe, the Silk Road Ensemble performed six original pieces — at times scattered, but thoroughly vibrant and entertaining.

The Ensemble introduced itself with Side to Side Out, a work by Kojo Omeza-ki with jumble of instruments and tones. Umezaki’s shakuhachi, or Japanese bamboo flute, was the highlight. Because air flowed liberally through the flute without substantial tone, the sound of rushing wind contributed to the edgy nature of Umeza’s solos.

Yo-Yo Ma, both artistic director and performer, is a bringer of light in an otherwise dark and jarring world. After joking about the weather, he made some remarks on the 15th anniversary of the Ensemble, and led his group into the Taranta Project, a beautiful piece. The audience loved Joseph Gramley’s percussion solo, as May she placed her hands to create a beat all over his body, which would have seemed improbable if not for its impressive precision.

My favorite piece was Paramita, an arrangement by composer Zhao Lin, featuring Ma on cello. Through mesmerizing movements, structured like a sublime film arrangement by composer Zhao Lin, featuring Ma on cello. Through mesmerizing movements, structured like a sublime film, the Ensemble was able to convey the story of a Tang Dynasty monk’s pilgrimage. Ma, here more than in any other piece, displayed his universally acclaimed clarity and smoothness of tone. I preferred this piece because it was by far the best narrative of the six — while some others seemed energetic, they elicited a weak image, and told a lackluster tale.

Of course, the skill required to perform each piece was evident. Cristina Pietrini’s Linear 6/8 Suite was a torrent of sound, a mix of Italian, Spanish, and Latin American traditions. Her Galician bagpipes were wailing and musical, and the double bass boomed heartily, driving each movement into the night. I loved the evident jazz influences and multicultural roots, though audience members could have easily gotten lost in the fray.

In contrast, Sampari, for duet, featured Kayhan Kalhor on the Persian fiddle and Sandeep Das on the tabla, the Indian drums. The two unquestionably have chemistry, as Das himself remarked before the piece. While Das skilfully set a sound of ambience in the slow-building piece, Kalhor’s kamancheh, as it is called, gave off an otherworldly sound — nasal, yet mellow. It matched well with the cells and violin accompaniment from Mike Block and Colin Jacobson, respectively.

Yo-Yo Ma, a French-born Chinese American who graduated from Harvard in 1982, has one of the most expansive repertoires of all musicians. He has performed at the edge of many genres and cultures, and his creativity flows into others, radiating from his Silk Road Ensemble.
CONCERT REVIEW

A night full of a cappella
ICCA Northeast Quarterfinal held at MIT

By Ka-Yen Yau

At the end of February, the Interna-
tional Championship of Collegiate A Cap-
pella (ICCA) held the last of four Northeast Quarterfinals of the season in MIT’s Kresge Auditorium. This was the ICCA’s 16th sea-
son, and student a capella groups have grown in numbers from year to year. As always, the MIT competition was the last of four that comprised the ICCA Northeast Quarterfinal. This past weekend, the Boston Camerata performed at Walker Memorial as part of the MIT Soundings Series sponsored by the MIT Center for Art, Science, and Technology. The night’s program was specifically commissioned for MIT and included some of the first performances (in the past 600 years or so) of newly re-
constructed pieces from 14th-century French and Italian composers Guillaume Machaut, Johannes Ciconia, Francesco da Firenze, and others.

The group consisted of eight talented performers, a mix of vocalists and musicians playing the lute, viols (a bowed string instrument used in medieval music), harps, recorders, and more.

MIT music professor Michael Scott Cuthbert hosted the concert, providing historical context for the pieces and inserting readings of contemporary poetry be-

A CONCERT REVIEW

Of the All the Flowers: Songs of the Middle Ages
The Boston Camerata impresses with reconstructed works

By Karleigh Moore

This past Friday, the Boston Camerata performed at Walker Memorial as part of the MIT Soundings Se-
ries sponsored by the MIT Center for Art, Science, and Technology. The night’s program was specifically commissioned for MIT and included some of the first performances (in the past 600 years or so) of newly re-
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The group consisted of eight talented performers, a mix of vocalists and musicians playing the lute, viols (a bowed string instrument used in medieval music), harps, recorders, and more.

MIT music professor Michael Scott Cuthbert hosted the concert, providing historical context for the pieces and inserting readings of contemporary poetry be-

A CONCERT REVIEW

Of the All the Flowers: Songs of the Middle Ages
The Boston Camerata impresses with reconstructed works

By Karleigh Moore

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The Tech Thursday, March 12, 2015

MacVicar Day 2015
Friday, March 13, 2015, Bartos Theater, E15-070
Symposium: 2:00 – 4:00 PM
Reception: 4:00 – 5:00 PM

Undergraduate Education Goes Global
Learning from the MIT-SUTD Collaboration

Sponsored by The MacVicar Faculty Fellows Program and the Office of Faculty Support

Isabella D. DiDio ’16 attacks the net during MIT’s 12–9 win over Keene State College on Wednesday, March 4.
MIT develops new Ebola testing method

Members of MIT’s Institute for Medical Engineering and Science (IMES) have developed a thin paper strip that can detect the Ebola virus in ten minutes when exposed to a sample of a patient’s blood, an improvement over previous methods that took days and required a laboratory setting.

The technology will allow health care workers to test for Ebola quickly in the field. Getting a reading is easy: the paper simply changes color if the patient is infected.

Many news outlets have praised the IMES team’s work, a product of the efforts of postdocs, instructors, and visiting scientists. An article published in Forbes predicted that the newly developed technology, which costs only $2 per test and requires little training to administer, could be a “game changer” in the West African struggle against Ebola.

The project’s lead researchers remarked that the silver nanoparticle-based strip makes an Ebola test as quick as an in-home pregnancy test. Moreover, the strip simultaneously tests for dengue and yellow fever.

Senior author Lee Gehrke said that their work could be applied to future outbreaks. “[W]e’re thinking about what’s coming next. There will undoubtedly be other viral outbreaks. It might be Sudan virus, it might be another hemorrhagic fever. What we’re trying to do is develop the antibodies needed to be ready for the next outbreak.”

—William Rodriguez

Meet your fellow tech staff.
(aka, your new 3 a.m. pset support group)

Solution to Saturday Stumper

From page 7

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THAT CAN DETECT COVID-19

Solution to About-Face

By Drew Bent
ASSOCIATE NEWS EDITOR

On Thursday evening, over a hundred students gathered in room 26-100 to learn something that is usually not formally taught in MIT classes: how to run a startup.

Leading the discussion were three partners from Y Combinator, one of Silicon Valley’s leading startup accelerators. Several MIT companies, including Dropbox and Stripe, were funded by the accelerator.

“There is no pre-startup like there is pre-med,” said Sam Altman, the 29-year-old president of Y Combinator. He encouraged students to start working on a startup immediately and learn along the way.

For students interested in startups, universities form a great hub of ideas and people, said Altman. “School is the best possible place to meet potential cofounders.”

Altman cautioned people, however, from attempting to do both school and startups at the same time. People who try it often “fail miserably at both,” he said.

Students were also encouraged to steer clear of large companies. It’s easy to always want the next most prestigious title—Andover, MIT, Facebook—said Altman. He argued that small, fast-growing startups offer students more significant roles and fulfillment in their jobs.

Y Combinator visited MIT as part of an annual East Coast tour in which they recruit students for their summer accelerator program. Almost all the students in the audience said they wanted to apply at some point.

Y Combinator usually invests $120 thousand in its startups, but Altman revealed during the Q-and-A that they have plans for helping startups requiring more money. “We have some news coming on that,” he said.

During the Q-and-A, Altman also said the greatest weakness he finds in MIT students who go through Y Combinator is their “unwillingness to go out and actually talk to users.”

Entrepreneurs need to both write code and talk to users, he said. It’s not one or the other.

Students wanted to know which types of startups Y Combinator would fund, asking about everything from nuclear fusion reactors to biotechnology.

According to the partners, any startup is fair game. One student even posed a non-software project of his that removes ice from airplane wings. Without hesitation, Altman responded, “We’ve actually funded an ice removal company before.”

Partners from famed startup accelerator Y Combinator lead discussions at MIT

Sam Altman encourages students to start their endeavors early, but cautions against trying to balance school and startups concurrently

A Pakistani Cultural Night

SATURDAY, MARCH 14TH
7 PM ONWARDS

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Lobby 10 & Online
$10 students, $15 general

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Meet your fellow tech staff.
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OUR MATHEMATICAL UNIVERSE
My Quest for the Ultimate Nature of Reality

Please join us as we welcome theoretical physicist and MIT Professor Max Tegmark to celebrate the paperback release of his bestselling book “Our Mathematical Universe” — a mind-blowing mix of physics and philosophy probing the mathematical structure of our own universe...and others.

“Our Mathematical Universe” is published by Vintage Books.

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When  Mon, March 16, 5:30 – 11:00 p.m.
   Wed, March 18, 5:30 – 11:00 p.m.
Where  Bush Room (10-105)
Why  To congratulate the new prefrosh!

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Ilona Karmel Writing Prize Competition
Share your passion for writing with the MIT Community!!!
Ca$h Prizes will be awarded at a reception on May 7, 2015
for the following prizes:
   Bolt Manuscript Prize
   Dewitt Wallace Prize for Science Writing for the Public
   Ellen King Prize for Freshman Writing
   Enterprise Poets Prize in Imagining a Future
   Prize for Writing Science Fiction
   Robert A. Bolt Writing Prize
   S. Klein Prize
   Vera List Prize for Visual Arts
   Writing and Humanistic Studies Prize for Engineering Writing

Deadline for Submissions is Friday, April 3, 2015
Guidelines, details, and cover sheets are available at
cmsw.mit.edu/writing-prizes

Solution to Sudoku I

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

Solution to Sudoku II

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

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MIT participates in International Development Hackathon; MIT students in half of winning teams

“Code for Good” class held over IAP also connects students with nonprofit organizations

By Angela Leong

This year, the Tufts Entrepreneur Society and Tufts Empower groups joined MIT’s Global Poverty Initiative (GPI) student group and partnered with a Harvard student group to plan the annual IDHack.

This year’s IDHack drew around 24 projects and 300 attendees, including sponsors, volunteers, and representatives from organizations. This was an increase from the 20 projects and 200 attendees last year. "There were MIT students on four of the eight winning teams,” said Jen- ny Lin ’16, the GPI member who planned this event. Representatives from these organizations were also present at the hackathon to work with participants. "Malte R. Ahrens ‘17, a partici- pant at this year’s IDHack, charac- terized the projects as “hacks with purpose,” and the fusion of inter- national development and hack- atons as “an interesting mindset of [let’s] save the world, fix things, be a hero […] combined with the traditional energy and enthusiasm of a hackathon, of that all-sighter adventure.”

He also expressed concerns about the “standard approach for a lot of international development hackathons to […] condense all the problems down to problem state- ments, give them to people who might build a solution from an en- gineering or technical side, and take that output and try to make something with it… [It] makes you wonder if perhaps this overspecial- ization… makes you lose sight of the bigger picture.”

Looking abroad, Lin said that a goal of IDHack was “for projects that are made in the hackathon to have a life after the hackathon and for more of the organizations to take on projects that were implement- ed.” They have reached out to repre- sentatives at the World Bank about continuing projects, recognizing that “the big part of them having a life after the hackathon is that we connect the participants with the organizations that they’re working for.” For instance, the Peace Corps wanted the design of a new job search and application portal created by one of the winning projects last year.

The IDHack organizers were not alone in their mission of connecting students to nonprofits, and encouraging students to use their technical skills to create social impact. This year, 28 students had the op- portunity to work with seven local nonprofit organizations in an IAP class titled “Code for Good,” which was sponsored by the MIT Institute of Electrical and Electronics En- gineers and Association for Comput- ing Machinery (IEEE/ACM) club. Anish R. Athalye ’17, Benjamin Y. Chan ’16, Victoria L. Drain ’17, and Erik S. Nguyen ’16 created the class after noticing that MIT lacked programs that had a “format where you can work with a non-profit or- ganization for an extended period of time, and really help them by building some infrastructure they need using your [computer science] skills,” according to Athalye.

“Not very many people whom I’ve encountered at MIT spend their free time building projects to help the community per se in a very ma- terial way, and this program’s goal is to facilitate that,” said Chan. Comparing the Code for Good class to traditional hackathons, Athalye added, “We really wanted to facilitate connections between MIT students and local non-profit organizations, connections that students might maintain after our class was over.”

In designing the class, Chan ex- plained that the team focused on smaller nonprofits that lacked the bandwidth to develop their own ap- plications or technologies, because these were the organizations that could especially benefit from MIT’s resources. The team was able to or- ganize multiple visits to the offices of the nonprofits, to allow students a firsthand understanding of their mission and work, through direct interactions with members of the nonprofits.

The Code for Good team has been contacted by individuals interested in starting similar groups at their schools, and has also met with organizers of similar programs at other schools. Dean sees potential to scale the class, which received cross-registrations from Harvard and Wellesley students.

Chan added, “We’ve helped out seven nonprofits in a month, why can’t we do even more?”
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Law enforcement, victims, others testify about week of 2013 Marathon bombing and aftermath

Henniger, first MIT police officer to respond, reported that Sean Collier still had a pulse upon his arrival despite grave wounds; Collier was later pronounced dead at hospital.
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Submission Deadline
Monday, April 13, 2015

For more information, visit: arts.mit.edu/schnitzer

The MIT Figure Skating Club’s Annual

FIGURE SKATING EXHIBITION

Ice Arena, Johnson Athletics Center
Saturday, March 14
6pm

Free Admission

Ice Dancing • Freestyle • Group Numbers
Pairs • Theatre On Ice

**This event is hosted by the MIT Figure Skating club and is sanctioned by the United States Figure Skating Association**

http://web.mit.edu/skatingclub/www/Home.html

Photo taken by Nick Wiltsie ’10
By Ray Wang

The Sloan Sports Analytics Conference, held on Feb. 27 and 28, is the mecca for sports fans — dozens of teams from almost every major league, and hundreds of sports industry organizations were represented.

The centerpiece of the day’s key-note panel, featuring Shane Battier, Houston Rockets GM Daryl Morey, author Michael Lewis, and NBA coach Jeff Van Gundy, was Battier himself. Dubbed the “No-stats All-Star,” Battier was on the stage because of his uncanny intelligence in every aspect of the game. Without realizing it, he’s been doing it, Battier has spent his career playing by the numbers, and realizing he’d been doing it, Battier is now at the forefront of a revolution centered around utilizing big data.

The new age of analytics is some-thing Money strongly believes in. “If you can dream it, you can do it. Any question you can now answer, it’s just about time and money,” he said, echoing the entire theme of the conference. Five or more talks were echoing the entire theme of the conference. Five or more talks were echoing the entire theme of the conference.

The SSAC drew its fair share of regulators and commissioners, also. New NBA commissioner Adam Silver and new MLB commissioner Rob Manfred were present, as well as Major League Soccer’s Don Garber.

Fifty-four graduate students from MIT Sloan’s Entertainment, Media, and Sports club put together the incredible event, which brought him into the spotlight, together the incredible event, which brought him into the spotlight, but also part of the Dance Troupe at MIT. I choreograph tap with my friend Patience.

In between serious talk about money and efficiency for statistics that drive the game, creating unprecedented efficiency for statistics that drive the game, creating unprecedented efficiency for statistics that drive the game, a panel entitled Business of Stats and Info. The First Pitch Business Case Competition and receiving an internship at ESPN, was edited for clarity and brevity.

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Extended Deadline for Graduate Students: March 13

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Questions?

Email mit-israel@mit.edu

Drammis hopes to win NEWMAC
Drammises, from Page 20

Drummis, from Page 20 really smart but nice and cool. Basically, the people, the excellent academics, the team, and the coaching staff who were pretty cool too convinced me to come to MIT.

TT: What is it like playing for the Engineers? What are practice schedules like during sea-son and off-season?

SD: Official season practice starts October 15, so that is when we practice with the coaches. We practice 5-7 pm. Mon-Fri and on Sat morning. During sea-son we usually have two games a week.

In the off-season, in the fall we play pick up a couple of times a week, individually work out, do lifting, and conditioning with coach Williams and coach Vial.

In the spring, we play some pick up but focus on improv-ing individual skills. We hit the weight room couple of times a week and work on quickness and agility.

TT: Let us go off court for a while, what are your interests academically and what do you like to do in your free time?

SD: I like Course 6 a lot. I am not really sure what specific area I want to go in yet. I am still ex-ploring. Systems and security are two areas that are very inter-esting to me.

I love skiing. It is a huge passion of mine. I am not allowed to ski during basketball season but looking into the future, I would like to ski a lot.

I just got an electric drum-set. I am into music so want to get better at playing drums. I am also part of the Dance Troupe at MIT. I choreograph tap with my friend Patience.

What is your target for your final season as an Engineer?

TT: I want to win the NEWMAC championship.

Editor’s note: This interview was edited for clarity and brevity.

If you want to nominate someone for “Player of the Month,” you can reach us at sports@the-tech.mit.edu.
Sabrina Drammis leads MIT to its best finish in 12 years

Drammis is the seventh player to score 1000 points

By Souparno Ghosh
SPORTS EDITOR

Starting this month, The Tech is launching a new "Player of the Month" feature profiling one of MIT's premier athletes from across varsity and club teams. Kicking off the series is women's basketball sensation, Sabrina Drammis '16.

This season, Sabrina Drammis became just the seventh player in the history of the program to surpass 1000 points. En route to being named to the Academic All-America First Team, she played in all five positions this season and led the Engineers to a sixth place finish in the New England Women's and Men's Athletic Conference (NEWMAC). This was MIT's best season in over a decade.

Described by her head coach as "a leader and one of the hardest working student-athletes I have ever coached," Sabrina has impressed peers and bounders over the last three years and emerged as one of the best players in a fiercely competitive league. We caught up with her just days after she was named to the Academic All-America First Team. She appeared remarkably humble and already extremely motivated for the next season.

The Tech: Congratulations on an amazing season and on being named to the Academic All-America First Team. She played in all five positions this season and led the Engineers to a sixth place finish in the New England Women's and Men's Basketball Academy.

Drammis: Thanks. I feel honored to have gotten that award. I couldn't have done it without my team. Everyone works really hard and I did a lot of good things this season. Unfortunately we fell short of our goal of winning the NEWMAC championship. But now we're focused on the next season and working hard to get it done. I want to see it happen before I leave.

The Tech: Let's go back a few years — when did you know you wanted to play competitively?

Drammis: I used to play tennis very competitively but got convinced otherwise by my high school basketball coach. I was playing tennis at Smith Stearns Tennis Academy and training every day. I was at a new school and wanted to try different things, and the varsity coach finally convinced me to stop playing tennis and moved me up to the varsity basketball team. I rode the bench that season, but I got to see a lot of good players play. That's when I realized this was the sport I wanted to pursue. I really enjoyed it.

The Tech: You were a high school state champion in tennis and even decided to split time between tennis and basketball in your freshman year. What tilted it in favor of basketball moving forward?

Drammis: I was losing some interest in tennis. I was getting burnt out but I wanted to do something. It really came down to a few options, and then I visited MIT twice. I came on a recruiting trip during the fall and that's when I spent a ton of time with the team and realized how awesome the team was. They were really cool people. Then I came back for CPW and realized this place is really unique. People are

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It's all about community at MIT Federal Credit Union. Whether you're learning, getting involved, or giving back, together our members help us thrive. That's why we offer these annual scholarships and awards.

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