New GSC executives to take office in May

Graduate Student Council seeks to advocate for, engage grad students

By Leon Lin

The Graduate Student Council elected a new set of executive officers last Wednesday, including President-elect John Kendall Nowocin G, Treasurer-elect Shabnam Raayai Ardakani, Secretary-elect Chris Aakre G, and Vice-President Francesca Bellei G. They will assume office in May.

In an interview, they emphasized the GSC’s role as an advocate for the interests of graduate students, such as housing, childcare, and financial needs of graduate student families.

The current GSC recently announced that it had negotiated an average 4 percent increase in the graduate-student stipend, set to take effect in the full term. In the 2013-2014 academic year, doctoral students received stipends in a range centered at around $32,000.

Reelected Vice President Francesco Bellei G, Secretary-elect Chris D. Aakre G, and Treasurer-elect Shabnam Raayai Ardakani G also said they wanted to foster a stronger sense of community among graduate students through events, student groups, and participation in the GSC.

“We definitely know that there is a need for a sense of community among graduate students, and that is certainly not the case every institution,” Nowocin said.

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The report ranked MIT’s salaries tenth highest among U.S. colleges surveyed. The average 2013-2014 salary for full professors at MIT is $185,900. Columbia University topped the report’s list, paying full professors an average of $284,500 annually. Stanford University had the average full professor salary at $204,300.

By William Navarre

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Group says it has raised over $1.7 million for Hillary Clinton

Ready for Hillary, the independent group devised to build support for Hillary Rodham Clinton's potential 2016 presidential campaign, said Thursday that it had brought in 22,000 new donors and raised more than $1.7 million in the three-month period that ended March 31.

The group aims to build grass-roots support with small donations solicited over the Internet, which was something of a struggle during Clinton's 2008 presidential bid. But it said that 98 percent of the contributions in the first three months of the year were for $100 or less, and 9,900 donations were for $20 or 30, a popular option at Ready for Hillary's events nationwide.

Clinton's supporters are hoping to build a campaign-ready infrastructure and donor base should she decide to run. Fundraising efforts have recently picked up, with Ready for Hillary and Priorities USA, the so-called super PAC that supported Barack Obama, asking major donors for tens of thousands of dollars for a campaign that does not even exist. One of Clinton's donation bundlers, who did not want to be quoted by name talking about the recent efforts, said that many of the biggest donors from her 2008 campaign will not become fully involved until Clinton makes a formal announcement.

Ready for Hillary said its goal is to focus on small contributions. The group has gathered a $250,000 limit on donations and has raised more than $5.75 million since it began operations shortly after Clinton left the State Department in February 2013.

Ready for Hillary said it would shut down if Clinton announced her intentions to run and would be likely to ask donors to transfer their support to the official campaign.

—Amy Chozick, The New York Times

BMW recalls 156,000 vehicles with 6-cylinder engines

BMW is recalling about 156,000 vehicles equipped with 6-cylinder engines because a defect could cause stalling or engine damage, the automaker said in a news release Thursday.

BMW said “in very rare cases the bolts holding the variable camshaft timing (VANOS) unit housing may become loose or, in extreme cases, break.” In such cases, the driver would be alerted by a check-engine warning light. Power to the engine could be reduced and “if ignored, the problem can become progressively worse, eventually leading to no-start conditions, stalling and engine damage.”

The models affected by the recall are the 1 Series, 3 Series, 5 Series, 5 Series Gran Turismo, X1, X3, X5 and X4 from the 2009-12 model years, as well as the 2012-18 3 Series.

The automaker is not aware of any accidents related to the problem, David Buchko, a spokesman for BMW, said in an email.

—Christopher Jensen, The New York Times

Prosecutor describes Pistorius as self-centered and bullying

By Alan Cowell and Dan Balz

NEW YORK TIMES

After a day of intense courtroom confrontation and emotion, the athlete Oscar Pistorius returned to the stand for a fourth straight day on Thursday to face new questions from a dragged prosecutor batterer on depicting him as narcissistic, self-centered and bullying, so intent on self-gratification that he ignored the feelings of the dead woman’s family.

“If you think about it, it’s all about Mr. Pistorius,” the state prosecutor, Gerrie Nel, told the athlete, challenging him to explain why he had used the first day of his testimony on Monday to offer an apology to Steenkamp’s family. “You never thought about them. You never thought how they would feel,” Nel said.

“They are not sorry that you killed their daughter,” Nel said.

“I’m terribly sorry that I took the life of their daughter,” Pistorius replied. In the public gallery, June Steenkamp, the victim’s mother, looked on impulsively.

Going through telephone messages between the couple by line by line, Nel pointed to one in which Pistorius had mocked her for making “annoying” accents. In one exchange, he told her to stop chewing gum in public.

“You picked on her incessantly,” Nel said. “It’s all about you; you’re obsessed, you’re obsessed, you’re obsessed.”

But the runner refused to look. “Part of me was jealous and insecurity,” Pistorius said.

Nel said he found the words “I love you” only twice in text messages on Steenkamp’s phone, both times addressed to her mother. “Never to you and you never to her” the prosecutor told Pistorius, accusing him of treating her badly, then apologizing.

Apart from the murder charge, Pistorius also faces charges related to possessing firearms, and the prosecution has sought to portray him as reckless and trigger-happy. In one case, he is accused of shooting a gun out of the open sunroof of a car. In another, he is accused of firing a handgun in a busy restaurant.

Pistorius told the court that he was a gun enthusiast who had grown up in a family where his parents had guns.
WASHINGTON — Federal law enforcement and intelligence agencies "generally shared information and intelligence appropriately" in their investigation of Tamerlan Tsarnaev and his brother, Dzhokhar, in the weeks leading up to the Boston Marathon bombing, but they should have more carefully scrutinized Tamerlan when he returned to the United States from Dagestan in 2009, the Homeland Security Department and inspector general for the intelligence community was released Thursday.

According to the report, the Rus-
sian government withheld some information about Tamerlan Tsar-
aev, who was killed in a shootout
last April, despite requests from the FBI who conducted the FRB’s initial investigation of Tsarnaev in 2010, the report said, could have done a more thorough assessment.

As MIT welcomes hundreds
of high school seniors and their families to campus for Preview Weekend, the “weather machine” is mostly being coop-

erated for the Pittsburgh Post-Gazette.

The attack at Franklin Regional
High School in Murrysville, Pa., a suburb about 20 miles east of Pitts-
burgh, began shortly after 7 a.m., of guard, but the guard was unable to
subdue him and was stabbed in the
hand before he was taken into cus-
treatment for cuts to his hand at a hos-
pital, the police said. One of the most seriously injured
was a 17-year-old male student who
was stabbed in the torso, just barely
surviving the attack. "He was at Uni-
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ter said at a news conference. Doc-

tors said they were hopeful that the
student, who was on life support, would survive.

At a news conference Wednes-
day evening, Chief Thomas Seefeldt of the Murrysville Police Depart-
ment said the attack had lasted about five minutes. The student
was confronted by a school security guard, but the guard was unable to
subdue him and was stabbed in the abdomen.

A friend took her hand, and they were running out of the school. in a parking for outside, Lazor said, she saw many bloody students with
injuries to the abdomen and arms.

On Wednesday evening, at least four students were stabbed, including the
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injuries to the abdomen and arms. It’s un-
known how many more people were
injured, she said. "It seemed like he was targeting schools and the
student, who got in his way, he was stab-

In response, the FBI conducted an assessment of Tsarnaev, the least
invasive of its three types of inves-
tigations, and found nothing to substantiate the information. The
Russians declined at least two re-
quests from the FBI for additional
information they may have had on
Tsarnaev.

But after the bombings, the Rus-
sians shared with the FBI informa-
tion about a phone conversation they had intercepted between Tsar-
aev and his mother, in which they discussed jihad.

In the course of its investiga-
tion, the inspector general’s office
found “no basis to make broad recommendations for changes in information handling or sharing,” but said there were “some areas in which existing practices or policies could be clarified or improved.”

In a letter to the inspectors
general, the FBI director, James C. O’Mara, said that Tsarnaev was a member of the “isis” network, which he said was involved in providing material support to ISIS fighters.

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her mother in 2011, the FBI acted
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Instead, Tsarnaev returned to the
United States in 2012, where he
was living in Maryland and working
as a gas station attendant.

In 2013, Tsarnaev was
accused of plotting to carry out a bomb attack in the Boston area.

He was charged with
five counts of attempted murder
and one count of using a weapon of mass destruction.

Tsarnaev pleaded
not guilty to all charges and is set
for trial in November.

The trial is scheduled
to begin in January 2015.

The case has sparked
debate about how the United States
should respond to threats from
radical religious groups, including
ISIS.

Some experts suggest
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radical groups and individuals,
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the government should focus on
preventing attacks by individuals
who are already radicalized.

The trial has also raised
questions about the government’s
treatment of suspected terrorists,
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The situation is
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By Anne Cai

MIT, like most universities, is founded on the premise of promoting the diversity of its student body. We define diversity in a broad sense: ethnicity, race, geography, socioeconomic status, gender, culture, religion, and even hobbies and interests. In the MIT Admis-
sion Wiki (edited largely by current stu-
dents and recent graduates) and MIT Un-
dergraduate Housing’s website, diversity’s primary benefit is framed as increasing the likelihood that a given student will fit in and include a wide range of people and places to choose from so that they can be comfortable. However, by seeking out people and settings we are comfortable with, we are likely to develop a narrower set of friends who share our experiences and interests; we work on problems that are familiar and comfortable. But we learn so much more from people who are different from us — the ones we would not have met if we had not been exposed to a diverse environ-
ment.

As a whole, the MIT undergraduate popu-
lation is indeed quite diverse, but we tend to self-select into social circles based on commonalities. Cultural student groups tend to be nearly homogeneous; we naturally only join sports teams, politi-

cal organizations, or cause-based student groups if we share those interests; we work on problem sets with people studying similar subjects; we get to know people whose lifestyles are similar to ours.

This self-selection is by no means unique to MIT. But it is amplified by our ability to easily choose the people we live with. According to statistics provided by the Division of Student Life, as of Fall 2013, 37.3 percent of New House residents are Asian as opposed to only 26.7 percent among all undergraduates. While 36.9 percent of un-
dergraduates are white, that number is 51.1 percent among all freshmen. Of course, what works for other student groups tend to be nearly homogeneous; we naturally only join sports teams, politi-

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Q.E.D. (quite easily done)  
by Erika Trent

MIT DURING CPW

MIT DURING ANY OTHER TIME

Www.qedcomics.com

UPPERCUT by Steve Sullivan

Somewhere on the Search for Meaning... by Letitia Li

Problem Set 8
Choose 1 out of the following:
1. Textbook Problem 22.3
2. Gather a group of enthusiastic pre-frosh to shrink Harvard’s entire campus and place it on top of the dome.

3. Using only a bag of marshmallows, signal generator, and your brass rat, capture a Caltech student sabotaging CPW.

Bonus points if you can convince him/her to transfer to the true Institute of Technology!

Q1M presents
5 Questions to Ask Your Hosts!

1. Is the grass always this green?
2. What are the Peter Pan Boys for?
3. Has anyone had sex on this mattress/after/del/etc.?
4. Where do you keep your assbeam?
5. Are you happy?

5.5. Has anyone had sex at MIT before? (only on the motorized busses)
CONTEMPORARY COMICS by OFIR NACHUM AND KALI XU

KALI AND OFIR IN FIRST GRADE
I WANNA GO TO MIT SO I CAN CURE CANCER!
OH YEAH? I WANNA GO TO MIT SO I CAN GET LAID!
WHAT'S GETTING LAID MEAN?
DUNNO, BUT I HEARD IT ON SOUTH-PARK.

KALI AND OFIR AT CFW
WOAH! LOOK AT ALL THESE NOBEL LAUREATES!
WOAH! LOOK AT ALL THESE GIRLS!

KALI AND OFIR AT GRADUATION
MAN, THESE FOUR YEARS FLEW BY SO FAST! AT LEAST I PUBLISHED TWELVE PAPERS.
I KNOW, SO SAD. IT’S OVER WELL. AT LEAST I GOT LAID.

COME TO MIT! WE’LL GET YOU PUBLISHED! ... AND LAID!

Sudoku
Solution, page 14

Techdoku
Solution, page 14

Can You Dig It? by Bruce Venzke
Solution, page 20
Prefrosh Techdoku

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.

Freshmen Techdoku

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.

Senior Techdoku

Solution, page 14

Instructions: Fill in the grid so that each column, row, and 9 by 9 grid contains exactly one of each of the digits 1 through 9.
MIT to mark first anniversary of Collier’s death

One year later, community memory of MIT police officer Sean Collier remains strong

By Shalley Murphy

CAMBRIDGE — A year after MIT police officer Sean Collier was gunned down on campus, the university is finalizing plans for a permanent memorial to honor him. A professor still bakes cookies every month for the university police. And a team, dubbed MIT Strong, is training to run the Boston Marathon in his memory.

"Every day I see little hints that people are still thinking of Sean," said Sally Miller, a sophomore who befriended Collier. "I might see his picture just hanging in a window, or I might see someone with his name on their backpack.

As MIT prepares to mark the first anniversary of Collier’s death on April 14 by hosting a community picnic and unveiling plans for the memorial, officials said the remembrances will pay tribute to the character and strength of the 26-year-old officer.

"The community has moved through phases, from a state of shock... almost like not being able to move right at the time of the event, to really a very strong sentiment of coming together and supporting each other," said Israel Ruiz, executive vice president and treasurer of MIT.

The Sean A. Collier Memorial Fund has raised more than $500,000, breaking records at MIT.

Some 1,890 individuals and groups have donated to the Sean A. Collier memorial fund, raising more than $500,000 and making it the largest amount ever raised for a memorial fund at the Massachusetts Institute of Technology, Ruiz said.

The money will be used for annual scholarships in Collier's name at MIT and at the Massachusetts Police Academy; a medal for those who embody the officer’s character and qualities; and for the permanent memorial that will replace a temporary stone marker and wooden cross on the campus at the corner of Main and Vassar Streets in Cambridge. It is near the spot where Collier was killed, allegedly by the two Boston Marathon bombing suspects, as he sat in his cruiser.

MIT Police Chief John DiFava said Collier’s name will be added to two walls listing officers killed in the line of duty at the Cambridge Police Department and at a memorial in Washington, D.C.

"If not for the incredible support," said DiFava, former head of the Massachusetts State Police, "it would have been almost impossible to get past it, because this was so much worse than any other line-of-duty death I was involved in."

Every month since Collier died, professor Lorina Gibson, who teaches physical sciences and engineering, bakes cookies and delivers them to the MIT police station.

There have been countless other gestures to pay tribute to Collier and support those who mourn him.

"It’s not just groups of people, friends, or colleagues; it’s across the board," said DiFava, adding that the outpouring has continued "at the same degree it was last April."

It runs for college police officers to die in the line of duty; Collier’s library stumped the community. In his first months on the force, he had become part of the fabric of the school. "He touched so many lives around campus; people knew him directly or indirectly," said Kris Burnette, the webmaster for MIT’s School of Engineering, who met Collier when he joined MIT’s Outdoor Club, a group of outdoor enthusiasts. "He was a bit of a tech guru, too... He fit into MIT’s culture. He was working on websites."

Collier loved the outdoors. He hiked mountains in New Hampshire and Newfoundland, with members of the Outing Club. "The first time I met Sean was sitting around a campfire in the mountains up in New Hampshire," said Miller, also a member of the club. "I thought he was a student until he returned to school and he relaxed a bit in a hallway, dressed in his uniform. "He’s fit in so well, and he just connected with the community," Miller said.

While on duty, Collier sometimes joined a group of students that met weekly to run laps up and down the stairs of MIT’s 31-story Green Building, according to Brewer.

"He ran in uniform, with his shoes and his belt," Brewer said.

The night before Collier was killed, according to Brewer, the officer led a group of students onto the roof to watch the sunset.

Brewer and Miller are among 38 members of the MIT Strong team who plan to run the Boston Marathon this month.

The group of students, alumni, and supporters, including runners from as far away as California, have already raised $10,000 through its website, http://mitstrong.mit.edu. The profits will go to the Collier memorial fund.

"We have been coping for a while, and we will continue to cope," Ruiz said. "We want to be defined by that strength of our community, not so much by the event itself."

He added: "We know that standing by our values, by our spirit, the things Sean exemplified and illustrated will make us move forward."
Amphibious Achievement PRESENTS...

RG - A - THON

🌐 Thursday, April 17: 11am - 6pm
📍 Kresge Oval

Amphibious Achievement is an MIT student-run athletic and academic mentorship program for inner-city Boston high school students. We provide high-quality coaching in rowing and swimming and college preparatory tutoring every Sunday morning at MIT. The goal of the program is to empower high school students to succeed in and out of the water.
CONCERT REVIEW

Jupiter String Quartet masterfully performs Beethoven

MIT guest artist delivers third concert of 2013 – 2015 Beethoven Cycle

By Erika Trent

Jupiter String Quartet performed at Kresge Auditorium on April 4 as a part of the MIT Guest Artist Series.

Megan’s husband. The tight-knit relationship between the four top-notch performers was evident in the consummate coordination of their performances. The Jupiter String Quartet has performed across the world, from the United States to Canada, Europe, Asia, and the Americas. As an MIT Guest Artist, they are currently delivering a two-year-long cycle (2013–2015) of concerts featuring six all-Beethoven programs.

The Quartet’s third all-Beethoven concert was no less breathtaking than the first two. McDonough opened the program’s first piece, Quartet in F Major, Op. 59, No. 1, with a warm melodic line evocative of the arrival of spring. Underscored by the welcoming melody, Megan and Liz provided harmonious support with repeated bouncing strokes and perfect bow control. Most memorable were the "conversations" between the instruments, the perfect execution of the brief fugal passage, in which the performers each finished other’s "sentences," reflected each musician’s sensitivity to the music as a whole.

The resounding energy in their music, for which the Jupiter String Quartet is highly praised by many critics, was evident in the second movement. The buoyant motif of the scherzo snapped many times, playful at times, and more edgy and urgent at other. The performers’ energy was constant throughout. By the end of the movement, Megan had already broken one of her bow hairs – a visible result of the musicians’ impassioned bow strokes.

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The Quartet’s third all-Beethoven concert was no less breathtaking than the first two. McDonough opened the program’s first piece, Quartet in F Major, Op. 59, No. 1, with a warm melodic line evocative of the arrival of spring. Underscored by the welcoming melody, Megan and Liz provided harmonious support with repeated bouncing strokes and perfect bow control. Most memorable were the "conversations" between the instruments, the perfect execution of the brief fugal passage, in which the performers each finished other’s "sentences," reflected each musician’s sensitivity to the music as a whole.

The resounding energy in their music, for which the Jupiter String Quartet is highly praised by many critics, was evident in the second movement. The buoyant motif of the scherzo snapped many times, playful at times, and more edgy and urgent at other. The performers’ energy was constant throughout. By the end of the movement, Megan had already broken one of her bow hairs – a visible result of the musicians’ impassioned bow strokes.

As the quartet began the third movement — memorable for the musicians’ rich vibratos and sensuous blending of harmonies — a virtuoso bridge by Lee led into the fourth movement. His and Megan’s fluid runs and crisp trills again paired vivid pictures of spring. In the middle of the movement were many deceptive passages that tricked listeners into thinking the piece was about to end. While this continuously delayed ending may have caused casual listeners, the Quartet executed the finale of the piece with an unmistakably grand finish.

The second and final piece that night, Quartet in B-Flat Major, Op. 130, was as much of an emotional rollercoaster as the first piece. This quartet, unique in that it contains six movements instead of the conventional four, is considered by musicians a piece that is hard to follow. But the Jupiter String Quartet took on this challenging piece with mastery.

The first movement, which alternated between a somber march and frantic melodic outbursts, demonstrated their careful ensemble work. The Presto showed all four string players’ precise bow control, while the following slow movement was memorable for the whimsical pizzicato passages. Following up with a nicely phrased, marked allegro piece, the quartet concluded with a rousing finale — Allegro con brio.

The Jupiter String Quartet delivered two of Beethoven’s most challenging quartets — demanding in terms of both individual skill and close ensemble work — with exceptional finesse. As I applauded with the standing audience at the end of the night, I knew I would be back to hear the Jupiter String Quartet in their next all-Beethoven program.

The Jupiter String Quartet will be performing their next three Beethoven Cycle concerts in Kresge Auditorium on Fridays at 7 p.m., on October 17, 2014, November 14, 2014, and April 30, 2015.

INTERVIEW

Dramashop welcomes spring with a dark comedy

The Tech chats with actors from The Pillowman

By Grace Young

Walking down the infinite corridor, you might have noticed a slightly demonic child on the poster for Dramashop’s latest production of The Pillowman. It’s hard to miss, as it looks like the cover of a horror film. The Tech chatted with cast members Salvador Esparza Jr., ‘14 and Adam Strangburg, ‘14 about the production, their experiences as actors, and their early days in Dramashop.

TT: The poster for The Pillowman looks really scary. It’s got a kid screaming on it. What is the play about? Is it really that horrifying?

SE: No, it’s not that horrifying. The play itself is a dark comedy. It’s actually pretty funny.

AS: It’s about some investigations into child murders. A writer wrote stories that involve a lot of tech, and blood. It’s a huge honor to work with the technical staff, like Kent Goodrich, who came to MIT this year from working with major companies in NYC.

TT: When and why did you join Dramashop?

AS: We did our first show together our freshmen year. Too Much Light Makes the Baby Go Blind. That was a collection of skits. Why did I join? I’ve done tons of theater here with a number of groups. This is my 18th production at MIT! I like Dramashop in particular because there’s a huge range of work that we do: everything from Europides to Chekhov to modern playwrights like McDonough.

SE: I joined because I’ve done theater since fifth grade and I needed an outlet on campus. It’s a great opportunity as an actor to work with different realms of theatrical experience.

TT: You’re both seniors. What advice do you have for freshmen?

SE: Do theatre. You’ll find a fantastic community on campus who will really support you through your MIT experience. You’ll develop so much as an actor. If you’ve never given it a shot, don’t hesitate. It’ll change your life.
The wonders of Amazon.

Dine Out Boston, formerly Restaurant Week, took place this year on March 16 – 21 and 23 – 28. Even though the second half of the citywide event coincided with spring break, the two-week celebration is a great chance for students to try out some high-end restaurants at slightly more affordable prices.

After perusing the slew of menus on the Dine Out Boston website, I decided to check out Mistral, a French/New American restaur-

The Back Bay-located restaurant Mistral offers a sophisticated atmosphere and delicious meals.

If you liked Rio 2, you absolutely have to

MINA WATERS

The return of the blue macaw

For people with kids, few options can top Rio 2, which even has laughs for parents

By Roberto Perez-Franco

If you liked Rio, you absolutely have to

By Rex Lam

The Tech 11

Now Playing

Rated G

Rio 2

Directed by Carlos Saldanha

Starring Jesse Eisenberg and Anne Hathaway

The Tech 11

A young talking parrot, Blu (Jesse Eisenberg) has to deal with the machinations of his sidekick, Gabi (Kristin Chenoweth), a pathic tendencies and soft-mannered killer

Eduardo (Andy Garcia) shows his daughter Jewel (Anne Hathaway) and his three grandkids Carla (Rachel Crow), Bia (Amanda Stenberg), and Tiago (Pierce Gagnon), the wonders of Amazon.

Dine Out Boston menus to a three-course meal and offer two to three choices for each course. To my surprise, my waiter informed me that the chef had prepared additional choices for the first two courses. Thus, instead of choosing among Caesar salad, beef sirloin carpaccio, and mushroom bisteak, I ended up ordering salmon tartare with guacamole for my ap-

dently noticed the high ceilings and the beige and green decor. There is also a lounge area near the entrance, presumably for larger groups that the small bar cannot accommodate. Overall, the restaurant felt laid-back and modern.

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The textures are just breathtaking: the beaks of the birds, which is just jaw-dropping. And the music! The music is the soul of the movie. The cast features several top-notch musicians, including Bruno Mars, and their talents are put to good use, to such an en-

My wife and I had fun too. I found my-

I was peering over my shoulder. When I asked her for an official comment, she said: “It was really great. It was also really funny.” So, I’d say my daughter approves of this movie.

In a nutshell: this movie is — in my opinion —

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A young talking parrot, Blu (Jesse Eisenberg) has to deal with the machinations of his sidekick, Gabi (Kristin Chenoweth), a pathic tendencies and soft-mannered killer

instinct blended magically with her impos-

ible love for Nigel. Her love song for the cockatoo (Kristin Chenoweth has a fantastic voice) is an instant classic.

The film is a virtual extravaganza. As a computer buff, I can’t help but marvel at the quality achieved by computer animation. The textures are just breathtaking: the beaks and feathers of the birds, the translucent skin of the frog, and the leaves trees in the forest, have a flawless, photorealistic qual-

ity to them that makes it evident this movie is a work of love. The 3D is used to great effect in panoramic views of Rio de Janeiro, so majestic and colorful they reminded me of Ratsatouille’s Paris shots.

The 3D also adds immensely to the ex-

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CPW
Campus Preview Weekend

The Tech interviews Class of 2018 admits

Interviews by Kath Xu and Photography by Tami Forrester

Matthew Khoury, Dallas TX, Electrical Engineering (potential major)
What’s been your favorite part about CPW so far?
“Probably just meeting people, getting to know new people, and just being welcomed by everybody.”
What are you most looking forward to this weekend?
“Probably the Energy Initiative Open House.”

Tal Scully, Brookline MA, Chemistry
What’s been your favorite part about CPW so far?
“I really enjoyed the make-your-own-sushi dinner at pika.”
What is your impression of MIT so far?
“MIT seems like such a friendly and fun place. Everybody is very, very smart, but that’s not what defines them. MIT has a lot of character and every dorm, every place I’ve been in has its own personality.”

Cathryn Hart, Charleston MA, Chemical Engineering
Favorite part about CPW?
“I went to practice with the women’s basketball team and that was really great. A lot of cool people.”
What is your impression of MIT?
“It’s a great place with a lot of diversity. Everyone seems really cool.”

Sydney Volanski, Houston TX, Computer Science
How are you finding CPW?
“Oh, I love it so far. It’s just great because I’ve never visited MIT before, so it’s really a great experience. I’ve always heard that it’s really the people that make the school and now I can see why. Everyone is just so excited to be at MIT.”
What’s been your impression of MIT?
“I think it’s mostly a kind of atmosphere thing. I see a lot of pride and enthusiasm in everyone here, and I really like that about it.”

Valerie Huynh, Dallas TX, Economics
How are you finding CPW?
“It’s really good experience. I love how there are so many events for you to try. Most college preview weekends are pretty traditional, but this one really goes out of the box.”
What are you most looking forward to this weekend?
“I’m looking forward to Firehose. I want to go to the Firehose: Math Until We Die tonight.”
What’s your impression of MIT?
“It’s crazy. People are nice, really. It’s more diverse than I thought it’d be — it’s not just math and science-focused.”

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Juan Romero, Folsom CA, Mechanical Engineering
How are you finding CPW so far?
“CPW is actually pretty amazing… Usually when you put two people together who don’t know each other, they have no idea what to say and just stand there awkwardly. But here there are no awkward moments.”
What are you most looking forward to this weekend?
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studentlife.mit.edu
Independent salary report ranks MIT tenth nationwide

On average, female full professors at Institute earn 0.1 percent more than their male counterparts
do

Salary, from Page 1

ford University came in second and Harvard University third, paying average annual salaries of $263,900 and $262,300, respectively.

Provost Martin A. Schmidt PhD ’88 warned against comparing salary data from different institutions, writing in an email that “salary comparisons made in the aggregate across institutions can be somewhat misleading, given that not all institutions house the same disciplines.” Eight of the top nine schools in the survey have medical schools, he pointed out.

For comparison, female professors at Caltech earn only 90.8 percent of what the male professors earn. At Harvard, women earn 91.6 percent.

Comparing faculty salaries by gender reveals that the gender pay gap is smaller at MIT than at its peer institutions. Female MIT full professors make 0.1 percent more on average than their male counterparts.

For comparison, female professors at Caltech earn only 90.8 percent as much as their male counterparts. At Harvard, this value is 91.6 percent.

The report criticized the increase in administrative positions across the country. “As this report has argued for many years, the academic mission of teaching and research should be the core of what colleges do, and decisions about spending should reflect a focus on this core mission,” it read.

Citing data that show that budgets for instruction and research have decreased relative to student services and institutional support, the report argues that institutions may not be prioritizing teaching and research.

“Increasingly, institutions of higher education have lost their focus on the academic activities at the core of their mission. Spending on administrative and support positions has continued unabated in the two decades,” the report writes.

MIT may be an exception. According to the preliminary report of the Task Force on the Future of MIT Education, the ratio of administrators to faculty remained relatively constant from 1981 to 2011. In 1981, there were 4.2 employees in administrative roles per faculty member. In 2011, the figure was 4.3.

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MIT chemistry professor Timothy M. Swager asked to check validity of papyrus ink

By Laurne Goodstein

A faded fragment of papyrus known as the “Gospel of Jesus’s Wife,” which caused an uproar when unveiled by a Harvard Divinity School historian in 2012, has been tested by scientists who conclude in a journal published Thursday that the ink and papyrus are very likely ancient, and not a modern forgery. Skepticism about the tiny scrap of papyrus has been fierce because it contained a phrase never before seen in any piece of Scripture: “Jesus said to them, ‘My wife…’” Too contentious for some, it also contained the words “she will be able to be...” that date from 400 B.C. to A.D. 400 manuscripts that we’ve looked at, “that date from 400 B.C. to A.D.

Karen L. King, the historian at Harvard Divinity School who gave the papyrus its name and fame, has been active in some churches over whether women should be allowed to be priests. The papyrus fragment has now been analyzed by professors of electrical engineering, chemistry and biology at Columbia University, Harvard University and the Massachusetts Institute of Technology, who reported that it resembles other ancient papyri from the fourth to the eighth centuries. (Scientists at the University of Arizona, who dated the fragment to centuries before the birth of Jesus, concluded that their results were unreliable.)

The test results do not prove that Jesus had a wife or disciples who were women, only that the fragment is more likely a snippet from an ancient manuscript than a fake, the scholars agree.

Karen L. King, the historian at Harvard Divinity School who gave the papyrus its name and fame, has all said along that it should not be regarded as evidence that Jesus married, only that early Christians were actively discussing celibacy, sex, marriage and discipleship. “I took very seriously the comments of such a wide range of people that it might be a forgery,” King said in an interview this week. She said she is now very confident it is genuine.

When you have all the evidence pointing in one direction, it doesn’t make it 100 percent, but history is not a place where 100 percent is a common thing,” King said.

The new information may not convince those scholars and bloggers who say the text is the work of a rather sloppy forger keen to influence contemporary debates. The Harvard Theological Review, which is publishing King’s long-delayed, peer-reviewed paper online Thursday, is also publishing a rebuttal by Leo Depuydt, a professor of Egyptology at Brown University, who declares the fragment so patently fake that it “seems ripe for a Monty Python skit.”

King presented the fragment with fanfare at a conference in Rome in September 2012, but was besieged by criticism because the context was controversial, the lettering was suspiciously spotty, the grammar was poor, its provenance was uncertain, its owner insisted on anonymity and its ink had not been tested.

An editorial in the Vatican’s newspaper also declared it a fake. New Testament scholars claimed the text referred to the “Bride of Christ,” which is the church — an interpretation King said was entirely possible. It is very unusual to test the ink and papyri of a fragment so small — this one is 4 by 8 centimeters — because it can damage the item, papyrologists say. The authenticity and dates of other famous fragments were determined by paleographers examining the handwriting. The “Jesus’s Wife” papyrus was analyzed at Columbia University using micro-Raman spectroscopy to determine the chemical composition of the ink. James T. Yezdley, a professor of electrical engineering, said in an interview that the carbon black ink on this fragment was “perfectly consistent with another 35 or 40 manuscripts that we’ve looked at,” that date from 400 B.C. to A.D. 700 or 800. At MIT’s Center for Materials Science and Engineering, Timothy M. Swager, a chemistry professor, and two students used infrared spectroscopy to determine whether the ink showed any variations or inconsistencies.

“The main thing was to see, did somebody doctor this up?” Swager said in an interview. “And there is absolutely no evidence for that. It would have been extremely difficult, if not impossible.” However, Depuydt, the Egyptologist at Brown University, said testing the fragment was irrelevant and that he saw “no need to inspect it.” A forger could easily create carbon black ink by mixing candle soot and oil, he said: “An undergraduate student with one semester of Coptic can make a reed pen and start drawing lines.”

But the scientists say that modern carbon black ink looks very different under their instruments. And King said that her “big disappointment” is that so far, the story of the fragment has focused on forgery, not on history.

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(walk down infinite Corridor, turn left at Lobby 10)

**Church Search**
Sunday, 9am - 10am
Mezzanine Lounge 3rd floor, Student Center
Visit mitcru.com for exact leaving times for churches.

mitcru.com
is desire from the graduate students to meet people from other departments,” Bellei said, citing survey responses. Part of what makes that difficult, he said, is the fact that less than 40 percent of graduate students live on campus.

The officers said they hoped to increase “engagement” by working to fund student groups, publicizing events, and increasing the visibility and online presence of the GSC.

Even when they do live on campus, Ardakani said, “it’s really hard to get everybody in the dorm to get engaged.”

Nowocin said that many graduate students wanted to live in on-campus dorms. He praised a “resonant” report of a provost-appointed Institute working group that recommended 500 to 600 additional beds in graduate housing at MIT.

“I think that families are particularly vulnerable,” Aakre said, “because if you have a spouse, for example, who isn’t working and is staying home with the kids, finding a two-bedroom apartment in Cambridge and affording it on the graduate stipend is incredibly difficult.”

To support graduate-student families, the officers said they wanted to continue programs like the backup childcare fund and “Families 101” panel at the graduate orientation, which is organized by the GSC.

In a statement, Nowocin also said he wanted to see graduate student input in decisions related to MIT 2030 (MIT’s campus development “framework”), MITx (an online education platform), student conduct policies, and the “new legal resource for studentinnovators” that President L. Rafael Reif promised in February.

The officers also said they hoped to continue the GSC’s collaborations with other groups at MIT, such as the Office of the Dean for Graduate Education, the MIT Public Service Center, the MIT Work-Life Center, and the Undergraduate Association.

Nowocin, Aakre, Bellei, and Ardakani have all held various positions in the GSC before.

The Tech has reached out to current GSC president Caleb J. Waugh G for comment.

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Is current NHL point system hurting the game?

Current system encourages teams to play conservatively, slowing pace dramatically

By Siva Nagarajan

A brief history of the National Hockey League

Pre-1983. All games were worth 2 points. There was no overtime, and the winner of each game got both points. If a tie resulted, the teams would split the points.

'83-'84 to '88-'89. All games were worth 2 points. There was a five-minute O/T, and the winner of each game got both points. If a tie resulted at the end of overtime, the teams would split the points.

'89-'90 to '93-'94. Same rules in-game, but now an overtime loser got one point, so some games were worth three points.

'94-'95. Week stoppage due to labor dispute.

'95-'96 onwards. In order to raise interest following the lockout season, the NHL instituted the shootout, and now all games have a winner. This guarantees that all games that are tied at the end of regulation will be three-point games.

Winner: 2 points
Regulation loser: 0 points
Overtime or shootout loser: 1 point ("the loser point")

The problem with the loser point

From 1999 to 2004, no more than 13 percent of the games played in a season were three-point games, but from 2005 onwards, at least 22 percent of the games each year have gone to overtime and thus have become three-point games. Not only does this cause an ambulance where almost a quarter of all games are counting 50 percent more in the standings, but it also decreases the excitement in regulation if the game is tied with little time left. Both teams are content just to pass the puck around without going on a major offensive to try to score because such an attack may leave them vulnerable defensively. Each team would still like to win the game, but is trying to guarantee itself at least 1 point in case of a loss by forcing overtime.

This becomes especially apparent in the month of April, when teams with slim playoff leads in the standings are trying to guarantee themselves at least 1 point from every game to hang on to those leads. Since 2003, 47.8 percent more close April games have gone to overtime than have close October games. Over the last few games of this season, expect Boston, Philadelphia, Detroit, and Columbus games to have a greater likelihood of going into overtime, as these teams are holding slim leads in various playoff seed races.

It may be argued that this problem also existed in the '99-'04 era when the three-point system was first introduced. This quite simply is not true because there was still a sense of urgency to try to win near the end of regulation because time was running out to win the game at all. Overtime was only 5 minutes long, and at the end of that the game would end without a winner, unlike now when it goes to a shootout. Because of this, teams continued to battle hard near the end of regulation, knowing that even if it did go to overtime, there wouldn't be much time to score and win.

The introduction of the shootout has changed the dynamics of regular season hockey by guaranteeing a winner and thus changing strategy near the end of the game. In fact, some teams may now employ shootout specialists such as T.J. Oshie of the St. Louis Blues for the very purpose of winning in a shootout, and even in overtime may only be playing for the shootout. Because of this, I suggest implementing the Olympic point system in the NHL. In the Olympics, all games still end with a winner, so if the NHL implemented this system it wouldn't decrease the excitement of the endgame for fans, but all games are worth three points. If the game ends in regulation, the winner gets all three points, but if it ends in overtime or a shootout, then the winner only gets two points, and the loser gets one point.

This way, not only do all games count equally in the standings, but teams also have an incentive to score in regulation to get that third point. By causing a difference between winning in regulation and winning in overtime, the NHL will have done its fans a huge favor since teams will be less incentivized to hold off until overtime to guarantee a minimum of one point, as they do now. By trying to guarantee this one point in the case of a loss, they are penalized by one point if they win, since they will now only get two points rather than the three they might have earned in regulation.

General Managers' thoughts

As an MIT student, I had the fortune of being able to attend the MIT Sloan Sports Analytics Conference at the discounted student rate. It is a great event that I would suggest every sport fan go to. I had the opportunity to pose my three-point idea to two GMs, Donald Fishman of the Capitals and Brian Burke of the Flames.

Fishman simply dismissed my idea because "the two-point win's been in hockey forever," but Burke gave a more detailed dismissal in which he explained that in the English Premier League, it has been shown that the proportion of matches that ended in a draw has not changed since the switch from 2 points for a win to 3 points for a win in 1988.

I disagree with the validity of Burke's analogy because in the English Premier League, teams are trying to earn the most points in the league to win, not place in the top 16 to make playoffs, so the incentives for earning points aren't comparable. On top of that, there is no overtime in soccer: it's simply 3 points for a win and 1 point for a draw, so there is no equivalent in soccer to the hockey situation of waiting until overtime to guarantee a point while still having the opportunity to gain more.

Based on these two GM's reactions to my proposal, I think it would be quite tough to change what has been part of hockey for so long, but given that it was less than a decade ago when such large changes as the addition of the shootout were made, it may not be so far in the future that all NHL games are worth three points.

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MIT field hockey team mounts comeback to win

**By Mindy Brauer**  
**SPORTS**

Trailing by four with eight minutes left to play, MIT mounted a 5-1 run to force overtime where freshman Hannah Levy (Yardley, Pa.) scored the game-winning goal as the Engineers defeated Wellesley College, 15-14, in a NEWMAC women’s lacrosse game on Tuesday night. Kira M. Schott ’16 led all players with six goals as MIT improved to 9-3 on the year and 2-2 in NEWMAC play. Meghan Peterson paced the Blue (4-6, 1-3 NEWMAC) with four goals and added two groundballs and two draw controls.

Wellesley controlled the action for most of the first half as it generated six unanswered goals, three courtesy of Peterson, to hold a commanding lead with 13:22 on the clock. The Blue held the Engineers to four shots until Isabella DiDio ’16 put them on the board at the 9:43 mark and then MIT followed with a free-position strike by Erica C. Da ’14 in span of 38 seconds. The hosts cut their deficit in half in 6:30 to go when Devin Williams caused a turnover on a Wellesley clearing attempt and found Kristyn M. Berretta ’16 who sprinted directly to goal. The Engineers almost entered the break down a goal, but two markers in the frame were waved off due to illegal sticks.

Levy narrowed the gap to (6-4) after 2:04 elapsed in the second half. Both sides went on to trade goals as a free-position blast by Wellesley freshman Nikki Shae- kim gave her squad a 9-6 lead at the 21:37 mark. Schott responded by burying three straight goals in the next five minutes to tie the game. Kristyn M. Berretta and Claire Canty both scored back-to-back goals to give the Blue a 1-3 advantage with 8:08 left to play.

A solo effort by Levy just over a minute later sparked MIT’s game- ending run as Schott won the ensuing draw and found the back of the net with 6:45 to go. After some back-and-forth play, Levy brought the Engineers within one (13-12) with 2:27 remaining in regulation. Wellesley gained some breathing room on Chesley Hooker’s strike with 57 seconds on the clock but Schott scored twice, at 33 and eight seconds, to send the game into overtime.

MIT produced a pair shots midway through the first three- minute session but they were off the mark. Like its first possession during overtime, Wellesley saw its groundball, helping set up an impenetrable down the stretch. Levy finished with four goals while DiDio tallied three goals, five groundballs, and five draw controls. Da added three ground- balls as Kenney registered three groundballs and two caused turns. Christine W. Jiang ’16 posted four draw controls and three groundballs while Pavlick made six saves in the first start of her career.

Mosciz recorded three goals and one assist as Cammy amassed 11 draw controls and three goals. Hooker scored twice and chipped in three groundballs while Shae- kim had one goal, one assist, and three draw controls. Mary Lemay scored a goal in the Blue’s opening run as Nettleton racked up 11 saves. Both squads continue NEWMAC play on Saturday, April 12. MIT will visit Wheaton College while Wellesley will host Emerson College.

**UPCOMING HOME EVENTS**

- **Friday, April 11**
  - Baseball vs. Babson College 3:30 p.m., Briggs Field
  - Men’s Lightweight Crew vs. Biglin Bowl (vs. Harvard/Dartmouth) 9 a.m., Charles River
  - Men’s Tennis vs. Clark University 1 p.m., DunPent Tennis Courts
  - Men’s Lacrosse vs. Lyndon State College 1 p.m., Steinbrenner Stadium

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