tech.mit.edu



WEATHER, p. 2 FRI: 25°F | 15°F Sunny SAT: 35°F | 25°F

Thursday, March 5, 2015

#### Fossil-free donations are sought Group to hold cash

Volume 135, Number 6

until MIT divests

By Jennifer F. Switzer

Thousands of MIT alumni, students, and faculty are calling on MIT to divest its \$12.4 billion endowment from fossil-fuel companies, an endeavor that MIT alumnus Rajesh Kasturirangan PhD '04 calls "a moral obligation comparable to college divestment from South Africa during the Apartheid regime."

On Feb. 20, a group of ten MIT alumni calling themselves Alumni for Divestment at MIT (AD-MIT) joined divestment movements from 16 other universities to launch the Multi-School Divestment Fund. The fund gives alumni and other donors a place to divert their donations until their recipient university commits to divest from fossil fuels.

If MIT doesn't divest by Dec. 31, 2017, donations made to the Institute through the Divestment Fund will be redistributed to par-

Divestment, Page 10

#### MIT community mourns one of its own



A community gathering in memory of Matthew L. Nehring '18 was held in the Memorial Lobby of Building 10 on Tuesday night. President L. Rafael Reif addressed the attendees.

#### Students reach out to each other following tragedy

By Patricia Z. Dominguez, William Navarre, Katherine Nazemi

Matthew L. Nehring '18, a resident of East Campus and a native of Colorado, died Saturday night.

"I have some terrible news to share about one of our students, Matthew Nehring, a freshman on

1W," housemaster Robert C. Miller '95 wrote in an email to East Campus residents on Sunday. "Last night, in the Stata Center, Matthew apparently took his own life."

A dorm meeting was held Sunday afternoon in East Campus with representatives from MIT Mental Health and MIT Student Support Services, as well as chaplains, the East Campus graduate resident tutors, and Chancellor Cynthia A. Barnhart PhD '88.

'In this moment of tragedy, we extend heartfelt sympathies to Matthew's family and friends," President L. Rafael Reif wrote in an email to campus. "I would also like us to take time to focus on one another as a community. There is

Nehring, Page 18

#### *Matt Nehring is* remembered for focus, dedication

By Claire Lazar OPINION EDITOR

We probably do not remember exactly what each of us were doing or thinking a few nights ago, during what is usually one of the most relaxing times of the week: between Saturday and Sunday. But it might be worth trying to recall those hours for perspective. Some of us may have reserved that time for conversations, sleeping, partying, or thinking about the approaching summer as we stared through our windows at a snow-covered river. Amid our routines on that very night, Matthew Nehring, the student, beloved friend, and fellow staffer at The Tech, experienced the last hours of his life. The tragedy pains the community at MIT, which has already felt deep losses in the past year. Thinking about our physical proximity to this event, the negligible distances between buildings and rooms on campus, is chilling. In spite of the seeming closeness, the walls separated a single one of us from the rest of the community.

Lazar, Page 4

#### Trial's opening statements given

#### New details brought to light about Officer Collier's death

**By Drew Bent** ASSOCIATE EDITOR

The defense attorney for alleged Boston Marathon bomber Dzhokhar Tsarnaev said Wednesday that it was his brother Tamerlan, and not Tsarnaev himself, who killed MIT Police Officer Sean Collier on April 18, 2013.

In her opening statement in federal court, defense attorney Judy Clarke tried to magnify Tamerlan's role in the bombings and the subsequent "path of devastation."

Lead prosecutor William Weinreb argued that

Tsarnaev and his brother Tamerlan were partners in the murder and acted together as they shot him 6 times: twice in the side of the head, once between the eyes, and three times in his right hand.

Weinreb also revealed some of the types of evidence that will be presented in the trial. He said that an MIT graduate student in the math department saw Tsarnaev look directly at him as he rode past the attack taking place near the Stata Center. And afterward, Weinreb said, Collier's blood was found on two white gloves in Tsarnaev's Honda

Trial, Page 6



Lead prosecutor William Weinreb delivers opening statements Wednesday at the Moakley U.S. Courthouse while 21-year-old Dzhokhar Tsarnaev sits between his attorneys. Tsarnaev could be sentenced to death if convicted.

#### IN SHORT

Add date is March 6. This is the last day to add subjects to registration. Students adding or changing class registrations after add date will face a \$100 late fee to petition for further changes.

The Muddy Charles Pub will reopen on Thursday, March 19 with a grand reopening event from 6 to 9 p.m.

**ESP Security is looking for volunteers** to help at Spark the weekend of March 14. Sign up to volunteer at https://esp.mit. edu/security.

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

#### New career fair hoped to strengthen MIT-Arab ties MENA becomes third international career fair

By Sanjana Srivastava

STAFF REPORTER

MIT needs to develop its relationship with the Arab World, according to the MIT Arab Students Organization (ASO). This is the focus of their most recent effort, the MIT Middle East and North Africa Career Fair (MENA).

Abdulaziz Alghunaim '15, MENA's founder and logistics head, noted that there was interest from both Arab students who wanted professional opportunities close to home, and from others who want to explore Arab culture, creating an unmet need at MIT.

Initially proposed in spring 2014, MENA was a way to bring together two communities that have little interaction.

"Arab companies want MIT students because there is so much economic growth [in the region]," Alghunaim said. Several companies had already contacted the ASO in order to reach interested students.

Eight companies and organizations registered to attend at MENA's debut last Sunday, some with existing name recognition at MIT like McKinsey and Microsoft, and some that are region-specific like Doroob and the Queen Rania Foundation. All eight companies received student-submitted résumés, as did four others that did not attend.

ASO members also sought to address assumptions about the Arab world. "People generally box [the Middle East] and don't understand how progressive the Arab world can be," MENA publicity head Shadab Dawood '15 said. She considers giving people a chance to widen their perspectives a personal goal.

MENA is an effective way for the ASO to facilitate cultural exposure, since it's easier to motivate people to explore a new culture when they can advance professionally while doing so, Alghunaim

Career Fair, Page 11

#### **BRASSRAT SHENANIGANS**

They could be worse ... much worse. FUN p. 9

#### **AN OPEN LETTER TO REIF**

Some think MIT should divest. OPINION, p. 5

#### **IRAN'S NUCLEAR CAPABILITIES**

A deadline for a deal approaches. OPINION, p. 5



#### THE PSET EQUATION

Q.E.D combines chemistry, physics, and procrastination. FUN, p. 9

#### **FOREVER ALONE**

When your friends won't join you in your favorite game. FUN,

p. 9

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**WEATHER** 

#### Warmer weather on the way

By Costa Christopoulos STAFF METEOROLOGIST

Slush filled the streets yesterday as temperatures around Boston broke 40 °F for the first time since early January. Bostonians have gained a sense of "weather relativity" this week. Some may call the warmer weather a return to normalcy; for others, it's a heat wave. Most of the brutal weather this winter resulted from a series of persistent troughs over the eastern U.S. Luckily, that pattern has broken down, allowing warmer air to surge northward.

Before you put on shorts

and head outside for a bridge

#### loop, prepare for a few more days of sub-freezing highs. A weak cold front is set to bring another shot of cool weather. Temperatures today and tomorrow should top out in the upper 20s °F. Beginning Saturday, daily highs begin to climb as the trough retreats northward. By early next week high temperatures should hover around 40°F! While residents of New England enjoy warmer weather, the southeastern states will be dealing with another winter storm. Snow and ice are expected in areas from Texas to Maryland over the next few days.



#### **Extended Forecast**

Today: Overcast, with a high of 29°F. Winds around 10 mph from the West.

Tonight: Clearing, with a low of 10°F. Winds around 10 mph from the West.

**Tomorrow**: Sunny, with a high of 25°F. NW winds at 5 mph. Saturday: Sunny, with a high in the mid 30s°F.

Sunday: Partly cloudy, with a high near 38°F.



#### MacVicar Day 2015

\*\*

Friday, March 13, 2015, Bartos Theater, E15-070

Symposium: 2:00 - 4:00 PM Reception: 4:00 - 5:00 PM

§ Hurricane

#### Undergraduate Education Goes Global

Learning from the MIT-SUTD Collaboration





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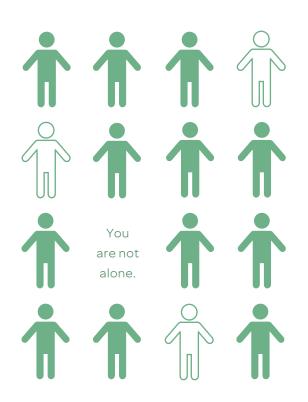


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Life at MIT can be overwhelming. We can help. Join the 20 percent of all MIT students who were seen at Mental Health & Counseling last year. No copay. Weekday walk-in hours for urgent concerns: 2-4 p.m.



Mental Health & Counseling medical.mit.edu/mentalhealth (617) 253-2916

This space donated by The Tech

THURSDAY, MARCH 5, 2015 THE TECH 3

#### Solution to Sudoku I

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

#### Solution to Sudoku II

from page 7

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

#### Solution to Techdoku I

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

#### Solution to Techdoku II

4	4	3	5	6	1	2
	6	5	1	2	3	4
ļ	5	4	6	1	2	3
	<u>5</u> 2	1	3	4	5	6
(	3	2	4	5	6	1
	1	6	2	3	4	5

#### James R. Killian, Jr., Faculty Achievement Award Lecture

# TINY CELLS, GLOBAL IMPACT: A JOURNEY OF DISCOVERY WITH A MICROBE FROM THE SEA



Sallie "Penny" Chisholm

Lee & Geraldine Martin Professor of Environmental Studies Department of Civil and Environmental Engineering and Department of Biology

Tuesday, March 10, 2015 4:00 pm Room 10-250

Шіт

Thursday, March 12

5:00 рм 34-401B

5:00 poster session | 5:45 keynote | 6:45 dinner



#### Dr. William Morokoff, Standard & Poor's

Managing Director: Quantitative Analytics and Research Group "Applications of Machine Learning to Credit Risk and Economic Forecasting"

Machine learning techniques hold great promise for applications to credit risk and econometric modeling. However there are a number of special challenges in these areas associated with relatively low frequency data (quarterly or annual) and the need to model the probability of rare events such as investment grade defaults. In this talk we consider a number of applications developed at S&P of machine learning methods including probability of default modeling, credit risk ranking, issuance forecasting, and automated review of regulatory filings. We consider the performance of these models and various challenges arising from data limitations as well as other factors such as calibration to expert judgment. We also consider advantages and disadvantages of different approaches in the context of the examples.

REGISTRATION & INFO > http://acses.mit.edu/





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#### **LETTERS TO THE EDITOR**

#### Supporting our students

A student's question at the Memorial Lobby event Tuesday evening haunts me: "What will you do so that we don't forget?" She was referring to the life of Matt Nehring and to the impact of suicide on classmates.

I told her that I commit to advancing a respectful and caring community, to be a student advocate on mental health issues, and to help students in distress. Another student looked skeptical, saying that professors expect life to go on as if nothing has changed. Most of the students I spoke with said that none of their professors took time out of their classes to acknowledge the loss, to share in the grieving, and to be human. Some did.

During the last year, hundreds of MIT

students have told me that they desire more interaction with faculty members outside of their academic role and to be validated as persons and not merely learners. If you are a faculty member who felt too uncomfortable to interrupt your class this week to talk about suicide, please contact me. I'd be glad to meet for coffee, to learn your story, and to help you explore ways of showing students that you care.

MIT students sometimes fear they will not live up to faculty expectations unless they excel even among their peers, all of whom are outstanding. This fear can lead to an unhealthy spiral whereby students see their peers doing amazing things, which causes some to doubt their own competence and belonging, so they stretch their limits to excel, in the process achieving amazing things, which causes others to doubt their own competence,

creating a vicious cycle.

Theodore Roosevelt said, "People don't care how much you know until they know how much you care." There has been talk about hacking the MIT culture. We don't need to invent a new technology for this; we can simply return to basics.

Do faculty know how much students can treasure a kind word and affirmation, or how many students doubt they belong at MIT? If you do, and would be willing to join me in meeting with students as a friendly advocate, and to get to know students outside the classroom, to help unwind the spiral of stress and despair, please contact me and together we will show that we do not forget the loss of Matt Nehring, Phoebe Wang, Austin Travis, Seth Teller, or Hadi Kasab.

Edmund Bertschinger is a professor of physics and the Institute Community and Equity Officer.

#### The MIT community in reflection

#### Mourning the loss of a fellow staffer

Lazar, from Page 1

A student who lived on Matthew's floor wrote the following moving letter in reflection:

"Matthew lived on my hall at East Campus. He had always been soft-spoken and diligent, known for focusing intently on his work. I remember meeting Matthew during our hall rush, and he was a quiet person even then. But at MIT, it's normal for people to keep to themselves. I remember that residents on the floor would often gravitate to the lounge to work on psets and study for exams when they saw Matthew there, and eventually every chair was occupied. Now many residents on our floor are feeling raw pain and loss.

"I have come to realize that people should always endeavor to speak up and to be forthrightly kind. Complimenting people every now and then is always a good thing to do. Stopping by someone's room—even if they seem a bit occupied—and saying hi is always an option. Yes, it's hard to be kind and friendly to everyone, especially if a lot of people know you and you feel like your attention is being divided unevenly or spread too thinly. But you never know the difference a few words could make."

V. Michael Bove, Jr., Matthew's freshman advisor and head of the MAS Freshman Program, wrote to the Media Lab:

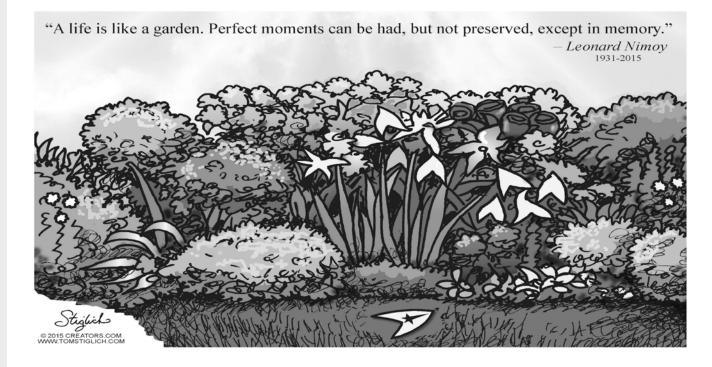
"Those of us who were fortunate to get to know Matthew since his arrival last fall have at this difficult time been recalling his intelligence, skill, creativity, thoughtfulness, powers of observation, and (though he was often quiet in class) animation and energy when discussion turned to a topic in which he was particularly interested."

Will Conway, The Tech's chairman,

wrote to the newspaper staff:

"Matt was a valued member of our business department. Over the course of the day, I've received repeated emails from his fellow staffers expressing their sorrow at Matt's passing and praising his work in the department. I feel that these emails speak volumes both to Matt's dedication to The Tech and to his character. He will be missed in the office."

There is neither agenda nor preaching in stories like these. It might simply be that this event is bigger than us and that our reflections cannot offer consolation. But perhaps these reflections can honor those we have lost and help make us more aware of our surroundings. We can try to be both sensitive and strong, looking to see, recognize, and hopefully sometimes help. Rest in peace, Matthew. Words cannot describe such loss.



#### CORRECTIONS

An article about Mt. Simmons published last Thursday identified Dheera Venkatraman incorrectly with the pronoun "she." The correct pronoun is "he." A movie review published last Thursday misspelled the name of one of the writers of *Song of the Sea*. He is Tomm Moore, not "More."

#### **OPINION POLICY**

**Editorials** are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Will Conway, Editor in Chief Leon Lin, Managing Editor Anthony Yu, Executive Editor Tushar Kamath, and Opinion Editor Claire Lazar.

**Dissents** are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to <code>letters@tech.mit.edu</code>. Hard copy submissions should be addressed to <code>The Tech</code>, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority.

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**Guest columns** are opinion articles submitted by members of the MIT or local community.

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#### Iran's growing nuclear capabilities

#### The emerging U.S. deal with Iran still risks instability in the Middle East

By Suri Bandler

On Tuesday, Israeli Prime Minister Benjamin Netanyahu spoke to Congress about one of the most pressing national security problems facing the United States. He articulated misgivings also voiced by congressmen in both parties and several of the U.S.'s Arab allies about an emerging nuclear agreement with Iran.

Allowing a country to be "a nuclearthreshold state" has proven dangerous in the past. Even with IAEA inspections, North Korea developed its nuclear capabilities.

With the March 31 deadline to achieve a framework deal approaching, it is almost too late to ensure that Iran will halt its progress toward going nuclear. What started as a collaboration between the U.S, China, France, Germany, Russia, and the U.K. to prohibit Iran from acquiring nuclear capabilities has turned into the U.S. working single-handedly against the clock to simply "curb" Iran's nuclear program in exchange for relief of economic sanctions. As former Secretary of State Henry Kissinger pointed out at a national security strategy hearing on Jan. 30, the whole effort was originally multilateral, led by the European Union and supported by six U.N. Security Council resolutions. Their stated purpose was to "deny Iran the capability to develop a military nuclear option." However, Kissinger added, "These negotiations have now become an essentially bilateral negotiation over the scope of that [nuclear] capability, not its existence."

Iran claims that it is solely interested in nuclear facilities and capabilities for energy purposes, but the U.S. and others wish to at least guarantee that inspectors from the U.N.'s International Atomic Energy Agency (IAEA) have the necessary access to Iran's nuclear facilities to inspect their progress and ensure that they stick to their claim.

Iran, however, is already proving evasive. Regarding allegations of testing explosives and other measures that could be used in developing a nuclear weapon, the IAEA said, "Iran has not provided any explanations that enable the agency to clarify the outstanding practical measures." In another instance, a senior official of the IAEA reported that when the current President of Iran, Hassan Rouhani, had served as a nuclear negotiator 10 years earlier, he bragged about his use of negotiations with the West to "buy time to advance Iran's program." Additionally, Iran is reported to have invested, at minimum, \$1 billion in its missile programs since 2000 and is currently working on long-range missiles that could reach Israel and U.S. military bases in the Middle East. This, coupled with the fact that the U.S. has continuously accused Iran of "funding, providing equipment, weapons, training, and giving sanctuary to terrorists," demonstrates that Iran is not a power to be underestimated. Its leaders' superficial justifications of nuclear development cannot be taken at face value, and their motives are not reliable enough to risk nuclear capabilities.

Recently, reports have come to light that a two-phased plan is taking shape. Namely, toward the end of a ten-year span, Iran will be rewarded for "good behavior" and have restrictions loosened on uranium enrichment. Importantly, President Obama's administration is threatening to use a veto to seal its accord with Iran without Congress's approval. The administration claims that

this is strategic and that gradually lifting sanctions is the most effective way to incentivize Iran to follow any deal. Yet many members of Congress view this as a move to leave them out of the decision and the process of checks and balances. Accordingly, a bipartisan bill was recently proposed to prevent the closing of the deal without congressional review. Additionally, it would prevent the White House from tying the hands of the legislative branch on passing sanctions for 60 days after a deal is made, perhaps indicating that Congress wishes to be prepared to react to a deal that it deems too lax.

The strategy of the Obama administration could have massive ramifications for the region as a whole, causing rapid proliferation across the Middle East.

Troublingly, allowing a country to be "a nuclear-threshold state" has proven dangerous in the past. In 1985, North Korea joined the Nuclear Nonproliferation Treaty and in 1992, inspections of its facilities began. In 1994, North Korea promised the U.S. in the "Agreed Framework" to halt its programs producing plutonium and to eventually dismantle its facilities in return for assistance from the U.S. on other issues. North Korea granted access to the IAEA through remote monitoring and inspections. However, in 2002 the U.S. found evidence of secret uranium enrichment. Clearly, even with IAEA inspections and monitoring, it is possible to continue developing nuclear capabilities. It would be naïve, and perhaps even arrogant, to assume that an illegal Iranian program would not similarly be able to slip by inspections as well.

Allowing Iran to hold the nuke would have massive implications for the region. As Kissinger said, "The impact ... will be to transform the negotiations from preventing proliferation to managing it." Countries across the area, including Saudi Arabia, Egypt, and Turkey, will want to copy "threshold capabilities." With terrorist bases thriving across the Middle East, such as in Iraq, Syria, Lebanon, and Gaza, allowing Iran to be on the threshold may disrupt whatever stability remains. As Kissinger stated: "We will live in a proliferated world in which everybody — even if that agreement is maintained — will be very close to the trigger point."

Overall, the current handling of negotiations on Iran's nuclear program is extremely dangerous. What has started as a multilateral plan to stop Iran from going nuclear has devolved into the Obama administration single-handedly restricting just how nuclear Iran is allowed to be. This strategy has proven naïve and unsuccessful in North Korea and could have massive ramifications for the region as a whole, causing rapid proliferation across the Middle East.

Iran has in many ways clearly stated its intentions, and we just have to open our ears and listen. Then it will come time to be honest, direct, and assertive about our own intentions, in the interest of stability and peace; Iran simply cannot be allowed to develop nuclear capabilities. As Netanyahu stated on Tuesday, "This deal won't change Iran for the better; it will only change the Middle East for the worse. A deal that's supposed to prevent nuclear proliferation would instead spark a nuclear arms race in the most dangerous part of the planet."

Suri Bandler is a member of the Class of 2017.

#### An open letter on fossil fuel divestment

#### A group of MIT alumni advocates that MIT divest its endowment of fossil fuel holdings

Dear President Reif:

Human-caused climate change is perhaps the most urgent challenge of our time. As one of the world's premier scientific institutions, MIT needs to take a leadership role in confronting the realities of this fundamental scientific and moral issue. Toward that end, we as MIT alumni are advocating that the MIT Corporation divest its endowment of fossil fuel holdings. In parallel, our group, Alumni for Divestment at MIT (AD-MIT), is reaching out to fellow graduates encouraging them to contribute in MIT's name to the newly established Multi-School Divestment Fund. Our education at MIT and the Institute's core values have helped shape our belief that divestment:

—is consistent with the widely accepted science of climate change, to which MIT has

made significant contributions;

—acknowledges climate change as a moral and ethical issue, with which supporting further extraction of fossil fuels is incompatible; and

—expresses a deep concern for all future generations, by taking seriously the wide-spread consensus about the extreme consequences of further warming.

We applaud the Climate Change Conversation you initiated to help foster intelligent discourse about this pressing dilemma. At the same time, we believe MIT should be taking more tangible actions to address climate change not only by tapping the immense talent and innovative spirit within the alumni community, but also by divesting the fossil fuel elements of the Corporation's portfolio. Mounting evidence shows that the

moral consequences of global warming far outweigh any possible financial benefits of investing in fossil fuels, while multiple reports demonstrate that a broad range of socially and environmentally responsible investments do not negatively impact returns.

MIT alumni are the face of the Institute to the outside world, and a significant number hold highly visible positions of scientific, economic, and political authority. Already 450 alumni have signed the petition urging fossil fuel divestment of the endowment. A growing number are contributing to the Multi-School Divestment Fund, the proceeds of which will go directly to MIT once its endowment is divested from fossil fuels. By divesting now, MIT would validate its position as a world leader, being the first institution with an endowment over \$1 billion to

do so

If you have any questions about our approach to divestment, please contact us at admitffree@gmail.com. We look forward to meeting with you and members of the Climate Change Conversation Committee at your earliest convenience to explore creative ways to include alumni voices in MIT's deliberations.

Thank you,
Warren Atkinson, '70
Dave Damm-Luhr, PhD '79
Gerald Gras, '69
Bradford Johnson, MS '04
Rajesh Kasturirangan, PhD '04
Chris Nidel, MS '95
Christina PioCosta-Lahue, MCP '09
Becky Romatoski, '06
Britta Voss, PhD '14

# Why MIT faculty should sign the petition to divest from fossil fuels

By Charles F. Harvey

This article was originally printed in the January/February 2015 issue of the MIT Faculty Newsletter.

I signed the petition for MIT to divest from fossil fuel companies. Few other MIT faculty members have signed — 50 as opposed to the 300 at Stanford — so I was curious to hear my colleagues' views about divestment. Of the faculty members I spoke with, not one argued that it is important for MIT to invest in the fossil fuel industry, and all agreed that carbon emissions are a serious risk to the planet. A few worried about the hypocrisy of signing a fossil fuel divestment petition when they are personally responsible for disproportionately large carbon emissions, largely from flying, sometimes to greenhouse gas conferences. But the predominant reason I heard for not signing was a cool cost-benefit analysis.

The calculus goes like this: "Regardless of my actions, the Corporation will not allow MIT to divest and, even if MIT did, it would

have a negligible effect on the industry and carbon emissions. But, of course, there is risk in taking a position that may be at odds with the administration." This analysis was usually followed by a knowing aside like: "Look, the financial mechanics of a step towards divestment are not hard; we've done it before. If we were really smart we would have sold before oil prices plummeted! But, let's be realistic — we often hear that another oil company has bought a relationship with MIT; David Koch funds the groups that push disinformation about climate science and he is a lifetime member of the MIT Corporation. I'd be spitting in the wind."

# MIT derives tremendous value from its reputation for integrity and scientific excellence.

I certainly have no idea how the divestment decision will ultimately be made and

I am optimistic that worries about personal repercussions are paranoid. But I must admit that my colleagues' analysis is good as far as it goes. Their dispassionate analysis fairly balances their assessment of an infinitesimal benefit against a small risk.

So why did I sign the petition? I signed because the analysis above misses a key aspect of MIT's mission, an important way that MIT faculty could benefit the world. MIT derives tremendous value from its reputation for integrity and scientific excellence and, as a result of that reputation, MIT has the credibility to educate a broad spectrum of the populace on issues that involve science and engineering. According to MIT's Mission Statement: "The Institute is committed to generating, disseminating, and preserving knowledge, and to working with others to bring this knowledge to bear on the world's great challenges." We know the science of climate change, but many Americans are confused, if not badly misled.

What better way to educate the public, let alone our own students, about the effects of

carbon emissions than to follow through on the clear implications of our own research on our own investments?

Divesting from companies who remove coal and oil from underground is consistent with our knowledge of climate change - fossil fuel companies must leave most of their reserves, their assets, underground if we are to avoid serious alteration of the climate. If a majority of the faculty sign the petition it would convey the scientific consensus about climate change. The divestment petition is an opportunity for the faculty to display leadership, to act according to MIT's mission. This remains true even if you believe that the MIT administration is locked into a relationship with the fossil fuel industry that prevents divestment; even if oil companies fund a graduate student of yours, as is now the case for me; even if you are responsible for releasing tons of CO, into the atmosphere when you fly to Asia, as I do, and will continue to do.

Charles F. Harvey is a professor in the Department of Civil and Environmental Engineering.

6 THE TECH THURSDAY, MARCH 5, 2015

# Tsarnaev's attorneys claim brother, not Dzhokhar, killed Officer Collier after Marathon bombings Chosen jurors hear opening statements, witness testimonies in first day of federal trial

Trial, from Page 1

Clarke painted a different picture. "Tamerlan shot and killed Officer Collier," she said definitively.

According to Clarke, when Tamerlan went on to carjack a young man in a Mercedes, he held up a gun and told him, "I just killed a police officer."

Collier's father was present in the courtroom Wednesday, along with other victims' family members.

Tsarnaev was also present, wearing a black suit for the first time in public. To his left was Clarke, a notable defense attorney who has kept several other high-profile defendants off death row. To his right was Miriam Conrad, who has previously represented clients like the shoebomber Richard Reid.

#### Prosecution's opening statements

Opening statements began with Weinreb speaking on behalf of the government. After recounting a vivid description of the bombings and the horrific scene that ensued, Weinreb argued that Tsarnaev was responsible for the violence and was motivated by extremist views.

Weinreb painted a picture of a young adult who became an Islamic terrorist after "reading terrorist writings and listening to terrorist lectures," all while maintaining a "double identity" as a student at

The prosecution maintained that Tsarnaev and his brother were "partners in crime," playing similar roles in the preparation and execution of the attacks. Both were responsible for triggering a bomb at the marathon and both attacked officers in the Watertown manhunt, according to Weinreb.

Most strikingly, Weinreb argued that Tsarnaev was completely coldblooded when committing these crimes. Only 20 minutes after allegedly setting off the second bomb, Tsarnaev drove to the Whole Foods in Central Square and bought a gallon of milk, before returning shortly after to exchange it for a new one, according to Weinreb. That evening, he went to the gym and even attended a party.

#### Defense's opening statements

Clarke followed Weinreb with the opening statements for the defense. She acknowledged the "unbearable grief, loss, and pain" associated with the bombings.

"We meet in the most tragic of circumstances," Clarke said.

She said that the defense does not deny that Tsarnaev, who she referred to by his nickname, Jahar, was involved in the bombings.

"It was him," she told the 18-per-

The defense did contest, however, the prosecution's explanation

the University of Massachusetts at of Tsarnaev's motivation for committing the crimes. Unlike Weinreb, Clarke maintained that Tsarnaev's brother was the mastermind of the bombings. She said he was the one responsible for buying the pressure cooker and shrapnel used in the bomb, as well as for killing Collier.

"It was Dzhokhar who followed him," said Clarke.

Clarke concluded by asking the jurors to listen "not only to the who. what, where and when, but also the how and why" for any evidence presented in the trial.

#### Witness testimonies

The day became emotional shortly after opening statements ended. Jurors were presented with several graphic videos of the bombings as witnesses took the stand.

Shane O'Hara, the manager of a sports store right at the marathon's finish line, was the second to the stand. He recalled hearing the sound of the first bomb and seeing an "instant cloud of dust" and smoke that "completely engulfed the whole window."

Footage from inside the store at the time of the blasts was played before the jury. There was a sudden jolt in the video feed, and within seconds people could be seen running inside to take cover.

A woman came in, and seeing blood dripping down her leg, O'Hara immediately grabbed a pair of shorts off a hanger and tied a tourniquet for her. "One of the goofinesses of me is that I look at [people's] feet," he told the jury.

It wouldn't be his first tourniquet. As people screamed outside for help, O'Hara came with makeshift "tourniquets, gauze, and pressure holders" that he made with the store's merchandise.

"What haunts me is making decisions," O'Hara said as he choked up. "Who needed help first, who was more injured than the other?" He felt it wasn't his role to decide, yet there was no one else to do it.

Jurors were presented with other heartfelt testimonies from bombing victims throughout the rest of the day, with more expected Thursday.

#### The chosen jury

Wednesday's court session comes after a lengthy jury selection

Over the past months, Tsarnaev's defense team has sent the court four requests to move the trial out of Massachusetts. Judge George O'Toole has denied all of them, including one on Wednesday.

The U.S. Court of Appeals for the First Circuit has similarly denied the two requests sent to them, even after hearing oral arguments on a request two weeks ago.

Tsarnaev is now being tried in a federal courthouse only miles from where the bombings took place.

The 18 jurors present on Wednesday were chosen from over 1,300 prospective jurors in an arduous process that involved two

nating those who had already come to a conclusion about Tsarnaev's guilt or who took absolute positions on the death penalty.

This Tuesday, the final jurors were selected from the 58 deemed eligible over the past months. Attorneys on both sides exercised their peremptory challenges and each rejected 20 jurors for whatever reasons they saw fit. The jurors range from a student and a single parent to a fashion designer and an air traffic controller.

One juror is a balding man in energy resource sales who said during the selection process that he was "honored to be eligible to serve." Like many of the jurors, he is ambivalent on the death penalty and said he will rely on the facts.

Another juror is a man who works as a telecommunications engineer at Massachusetts General Hospital and was at the hospital the day of the bombings when victims were brought in, although he was in a different part of the building.

Observers in the courtroom on Wednesday were quick to note that all the jurors are white, except for one juror of Iranian descent, Eight are men and 10 are women.

Of the 18 jurors, only 12 will be deciding whether or not to convict Tsarnaev and give him the death penalty. The other six are alternates, although that distinction will likely not be known until deliberations at the end of the trial.



Join us for an incredible night of music and Fusion dancing featuring Boston's own Amy Kucharik and Friends With Benefits.

#### Friday, March 6 La Sala de Puerto Rico Student Center 2nd floor

Fusion dance lesson 8:00 p.m. Music and social dancing 9:00 p.m.-12:30 a.m.

Tell me more about Fusion dancing!

Fusion is partner dancing that freely combines multiple dance aesthetics and musical genres. It means time to bust out those Tango, Ballroom, Salsa, Swing, Blues, etc. moves. Partner connection and musicality are key. Want to learn more? Check out the complimentary lesson at 8 p.m.!

Who is Amy and Friends With Benefits?

Amy Kucharik, a talented singer/songwriter from Somerville and familiar face around the Boston dance scene, is a dancer's dream musician. On her ukulele, she has immense musical range and her influences range from ragtime blues, country, and folk, to reggae, funk and infectious, danceable swing. The songs are catchy and sexy, and we invite you to listen closely to Amy's witty, sometimes dark-humored,

Why "Bread and Bones"?

It's the title of a brilliant Amy Kucharik song off her EP, Dance Crush Blues. Take a listen and you'll know why we chose it for our theme.

What if I am not a dancer?

No problem! This event is open to everyone, dancer and non-dancers alike! We will have part of the room set up with chairs so you can enjoy the live music.

Admission

MIT Students: \$3 (Special thanks to the MIT LEF for subsidizing MIT student admission.)

MIT Community: \$5

Other students with valid ID: \$5

General public: \$10

http://mit.edu/swing/bread-bones On Facebook: http://on.fb.me/1C6Z67c swing@mit.edu

This space donated by The Tech

# FUNFUNFUNFUNFU

#### Sudoku I

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

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.

#### Sudoku II

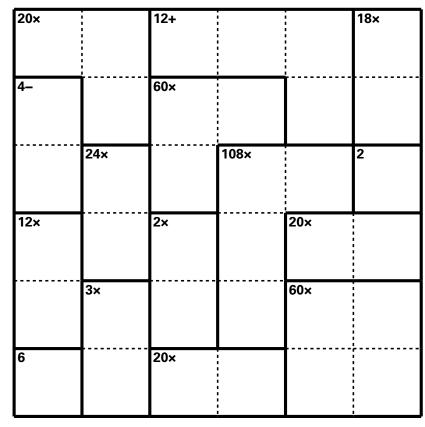
Solution, page 3

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

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

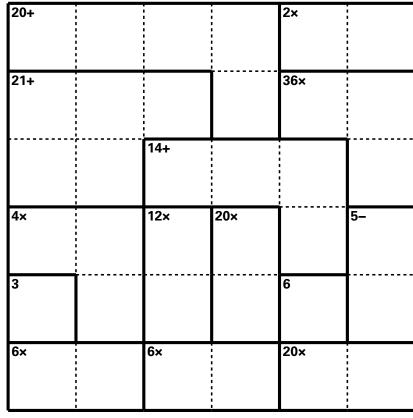
Solution, page 3



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.

#### Techdoku II

Solution, page 3



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.

#### Pipes Down by Jim Page

Solution, page 17

#### **ACROSS**

- 1 It's south of Libya
- 5 Ballroom attire
- 9 Family-room fixture
- 14 Camera setting
- 15 Desperate Housewives role
- 16 Word often modifying 'contested"
- 17 Soda can abbr.
- 18 Very well
- 19 Great quantity
- 20 "Rabbit of Seville" antagonist
- 22 Leaf on the cover of a Joplin rag
- 23 Spherical starter
- 24 Batman after Michael
- 25 Strand in St. Moritz, maybe
- 29 Anchor's venue
- 34 Subject of the musical George M!
- 35 Cough-syrup amts. 36 Agcy. concerned with hazmat
- 37 Far beyond annoyed 38 Way to go: Abbr.

- 39 Antecedent
- 40 Cost of leaving
- 41 Hidden bug 42 Make sense
- 43 Bold challenge
- 45 Long suits 46 Portrait on paper yuan
- 47 Apple array 49 Head cover of a sort
- 52 DVD format 57 Texting alternative
- 58 Georges in your pocket
- 59 Male razorback 60 "Blazing Saddles" singer
- 61 Sound of disgust
- 62 Whit
- 63 Young's accounting partner 64 CT-based channel
- 65 Grey Goose rival

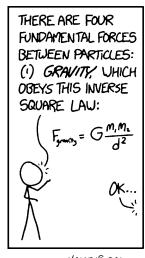
#### **DOWN**

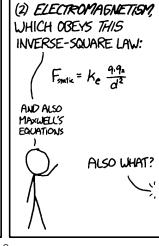
- 1 Casablanca setting
- 2 Nutshell
- 3 Physics focus
- 4 Nod off
- 5 DreamWorks cofounder

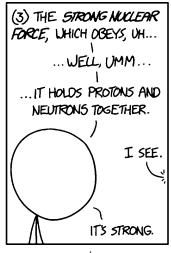
- 6 Detestation
- 7 Musical pipes
- 8 Crave 9 Locomotive of tot TV
- 10 Anatomical pipes
- 11 Small progress
- 12 Airline name derived from Hosea
- 13 River rising near Edinburgh
- 21 Strasbourg's river
- 24 Bugs on wheels
- 25 Bookstore section
- 26 Aerospace warning org.
- 27 Second word of Gone With the Wind
- 28 Urban pipes
- 30 Foil relative
- 31 Out of one's thoughts
- 32 High-volume comment
- 33 Woodpile coverings
- 35 Small band
- 39 So last year
- 41 Rocky Mtn. state
- 44 Baby living on a cliff 45 Does, as a play
- 48 Depleted
- 20 26 27 28 31 |32 |33 34 37 40 42 43 49 50 51 58 59 60 61 62 64 63
- 49 Mark for removal
- 50 Karl's role in Patton
- 51 Drops from the sky
- 52 Bounding stride 53 Baseball-reference.com
- section
- 54 Starter for binding or making
- 55 How some muffins taste
- 56 Airport security procedure

# SARCASM, MATH, AND LANGUAGE by Randall Munroe

#### [1489] Fundamental Forces







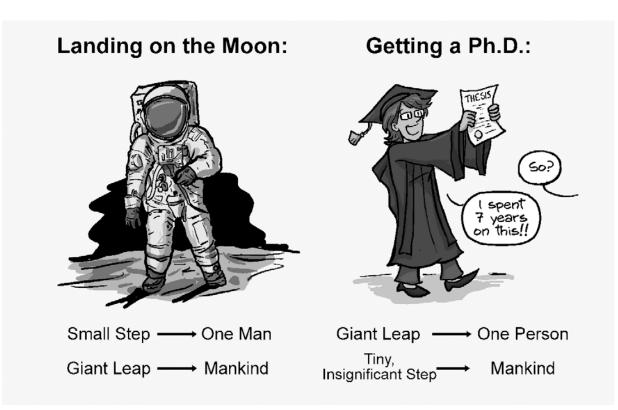


JORGE CHAM @ 2014

"Of these four forces, there's one we don't really understand." "Is it the weak force or the strong—" "It's gravity."



by Jorge Cham



WWW.PHDCOMICS.COM

#### Saturday Stumper by Anna Stiga

Solution, page 17

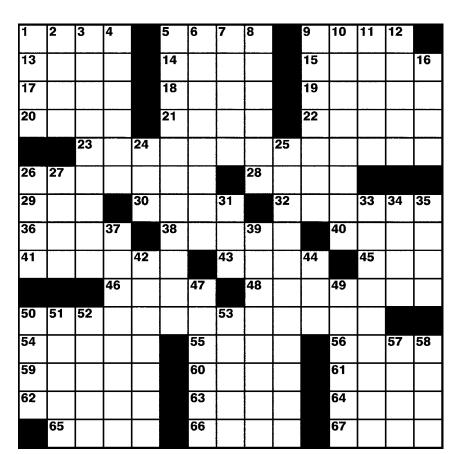
#### **ACROSS**

- 1 Yiddish author with a New
- Testament trilogy
- 5 Publisher of Champion magazine
- 9 Includes, with "in" 13 Milton's word for "grimace"
- 14 Half-boxes
- 15 "Me no \_\_" (apt pan of I Am a Camera)
- 17 Source of failed-bank info 18 Burns, for instance
- 19 Viewable
- 20 Ski gear
- 21 Draw cleverly
- 22 What may be heard before a number
- 23 Office plant
- 26 Columbus, for instance
- 28 Burns, for instance
- 29 Name on the cover of Lyrics on Several Occasions
- 30 Beach bash of a sort
- 32 Shampoo category
- 36 Cover \_
- 38 Georg known for his jointed arms
- 40 Nick Carraway alma mater
- 41 Unbroken
- 43 Obamacare selections 45 Start to stick
- 46 Give notice
- 48 Solo
- 50 Tops of some American food chains
- 54 Word from the Latin for "twelfth"
- 55 Undiscriminating, for short

- 56 Chapter 28 of Moby-Dick
- 59 "A Little Grouch Music" singer
- 60 Disquiet
- 61 Win wide acceptance
- 62 Trash talker's tactic
- 63 "Leia's Theme" soloist
- 64 Besides
- 65 Flew
- 66 Sites for many libraries
- 67 Dunce

#### DOWN

- 1 \_\_ tuner
- 2 Another way to say "Na"
- 3 Griddler maker
- 4 Emphatic denial 5 High point
- 6 Film character based on Poirot
- 7 Give notice
- 8 Late-summer butterfly attractors
- 9 Traditional parting tune
- 10 What Bugs Bunny calls his antics
- 11 Reduced-fare programs
- 12 Doc's order
- 16 Firm figure: Abbr.
- 24 Where Kevlar was invented: Abbr.
- 25 Book about King David
- 26 Its most-Oscars record was broken by Ben-Hur
- 27 Veterinary center
- 31 "Horrors!"
- 33 Hollywood Bowl, essentially
- 34 Organic makeup remover
- 35 Impart



- 37 What spreaders are used for
- 39 Mayonnaise, e.g.
- 42 Babied, with "to"
- 44 It starts the Western Hemisphere's most populous city
- 47 Hunter descendant of Noah
- 49 Before you know it
- 50 Western sound effects
- 51 Dislodges
- 52 Free from limits
- 53 Mythical woman for whom element #41 was named
- 57 Besides
- 58 Lost integrity, as checks

# UNFUNFUNFUNFUN

#### **UPPERCUT** by Steve Sullivan







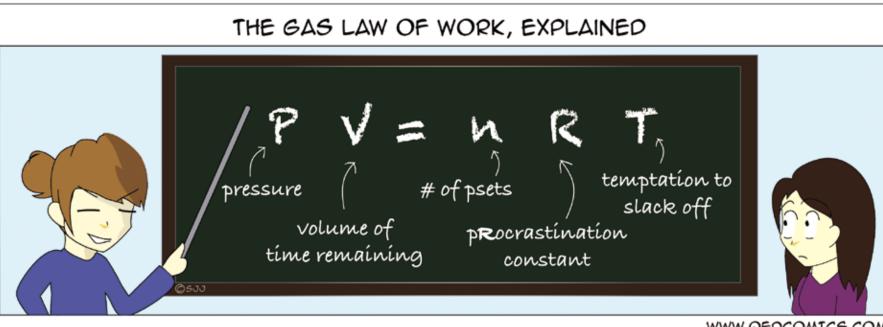






Q.E.D.

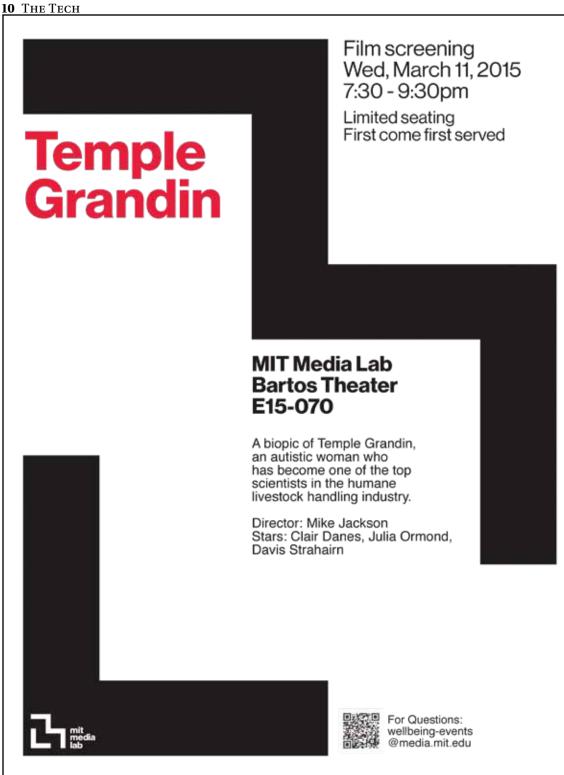
#### BY ERIKA TRENT



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THURSDAY, MARCH 5, 2015



March 16, 2015 4:30 - 6:00pm E14-633

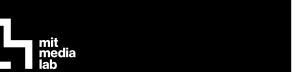
# Temple Grandin

**Helping Different** Kinds of Minds to Succeed



An expert on animal behavior, Temple Grandin has designed humane handling systems for half the cattle-processing facilities in the US, and consults with the meat industry to develop animal welfare guidelines. In 2010, TIME magazine listed her as one of its "100 Most Influential People"

for 2014. Grandin's books about her interior life as an autistic person have increased the world's understanding of the condition. She is revered by animal rights groups and members of the autism community as a voice for those who are often challenged to make themselves heard.





For Questions: wellbeing-events @media.mit.edu

#### AD-MIT group to withhold donations

#### Alumni hope to force divestment

Divestment, from Page 1

ticipating universities that have by

AD-MIT member Kasturirangan and Dartmouth alum David Goodrich said in a Boston Globe op-ed that the fund "leverages the greatest power alumni hold: our annual giving capability."

The AD-MIT group also has plans to increase divestment awareness on the MIT campus, according to Kasturirangan.

"AD-MIT will organize lectures and meetings in collaboration with other campus groups in the fall, including a series on 'divestment for nerds.' We will also be organizing divestment-related events during commencement," Kasturirangan

AD-MIT's efforts are complementing those of Fossil Free MIT (FFMIT), a student group that for the past two years has been putting pressure on MIT to divest.

FFMIT's petition to President Reif, which calls on MIT to divest from fossil fuel companies, has been signed by over 3,000 MIT community members, including 70 faculty members and almost a third of the undergraduate population.

Although MIT has yet to respond to the petition, it has created a Climate Change Conversation Committee. The committee is charged with gathering input from

the MIT community on the actions it would like to see the Institute take on climate change, and synthesizing this input into a final report to President Reif by commencement

FFMIT member Priyanka Chatterjee believes the Climate Change Conversation is a way for MIT to avoid addressing divestment directly. In an interview with The Tech she said that the "Climate Change Conversation waters down the issue of divestment, because it makes divestment a sub-issue rather the main issue."

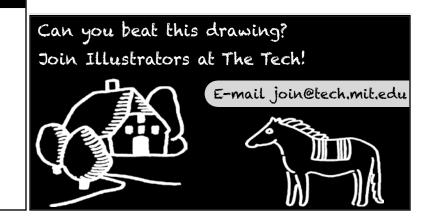
According to Roman Stocker, chair of the Climate Change Conversation Committee, the MIT Conversation on Climate Change will be looking at all actions MIT can take on climate change, divestment being one option considered. Stocker said last year that it wasn't his place to state a position on divestment.

Priyanka said that it isn't fair to offer divestment as an option equal to its alternatives, because the support for divestment is so much

"Putting divestment on the same playing field as other options gives it the same clout as any other thing that doesn't have as much support behind it," she said. "So even though MIT is giving us a great opportunity to have a conversation about climate change, they are skirting around the idea of divestment."



MELISSA RENÉE SCHUMACHER—THE TECH The MIT Undergraduate Energy Club hosted the 2015 Energy **Expo** on Thursday in Lobdell. Students networked with representatives from energy companies.



**THE TECH 11** THURSDAY, MARCH 5, 2015

Sam Creighton performs with Northeastern University's premier co-ed a cappella group, the Nor'easters, which took first place at the ICCA Northeast Quarterfinals on Saturday.

# Fair runs smoothly with help of GECD 12 companies, 140 students attend

Career Fair, from Page 1

Finding sponsors for a new career fair presented a challenge, but the companies that participated shared many of the ASO's goals. Alghunaim attributed the ASO's success to the fact that "companies that came [had] their own passion for achieving that mission."

Cultural differences were a challenge on both ends — Dawood said that local Middle Eastern companies didn't have the same recruiting processes and expected in-person communication instead of emails, so "having them agree to do this American style was tougher.

A major step in introducing any career opportunity to MIT students is gaining approval from Global Education and Career Development (GECD). Organizers must complete comprehensive proposals and have them reviewed, and prove that their event is worthwhile. In short, ASO needed to "give them a reason to say yes," Dawood said.

Though the process was challenging, Dawood said that the GECD was agreeable despite maintaining rigorous standards.

Alghunaim said that the extensive requirements actually aided in the planning process. Working with the GECD gave them access to many examples of similar events held in the past and helped MENA run smoothly despite being new and completely led by students.

The turnout of roughly 140 people resulted in over 35 interviews and satisfied sponsors, but Alghunaim considers the next step to be improving student outreach. A lot of time was spent attracting employers and making sure they had good experiences, he said, but there wasn't enough effort put into appealing to students, and the ASO had hoped more students would

MENA joins the existing annual European and Asian career fairs as a region-specific recruiting opportunity.

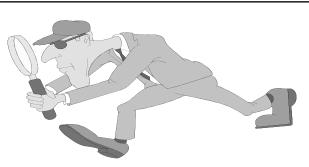


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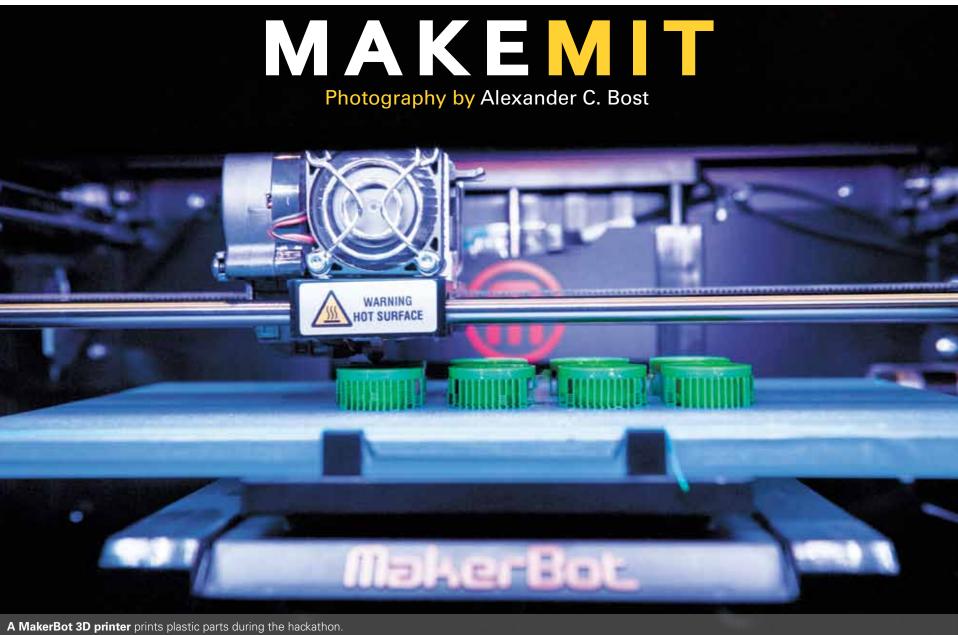
JOIN@TECH.MIT.EDU















#### Timbuktu: Life under terrorism

#### France's Best Picture winner is an important film

By Nevin Daniel

ISIS and the radicalization of Islam should be deplored. We know this. But what are the crimes? Facile answers include the beheadings and mass killings that have the immediate shock value needed to attract media attention. (Our world is one of noise, to echo Polish director Pavel Pawlikowski at the Oscars.) The injustices perpetrated against everyday Muslims living under jihadist militants are both more pervasive and more insidious: abrogations of freedoms not only to life, but to liberty, personal and cultural. Attacks on not only the body, but the soul.

#### Timbuktu is a sliceof-life film about daily existence under jihadist rule in the ancient city.

These are the crimes laid bare in *Timbuktu*, a slice-of-life film about daily existence under jihadist rule in the ancient title city. Directed by acclaimed North African director Abderrahmane Sissako, it won Best Picture and Best Director this year at the Cesars, the French Oscars.

The central character of the film, if there

is one, is Kidane (Ibrahim Ahmed), the patriarch of one of the few Bedouin families who have chosen not to leave their home. The varied subjugations of the people of Timbuktu, which constitute the bulk of the film, serve to inform Kidane's motivations when he assaults a fisherman (the exact details of which, I've left out).

A man is told to roll up his pants to his ankles though the material does not roll up: he removes his pants. A female fishmonger is told to wear gloves to hide her hands though she refuses to do so while handling fish: she asks to be taken away instead. Football is forbidden, so the children play heedlessly without a ball, until a soldier stops them.

Things get worse. A woman is forced into marriage. Young men and women are lashed for singing and playing music in their homes. Adulterers are stoned.

What distinguishes the film is its examination of what happens when the oppression becomes banal: the decision to surrender, to flee, or to fight is wordless and automatic, fate come as it may. Subsequent punishment is received without surprise, sentiment, or objection.

Sissako's images of the desert, beautiful but barren panoramas, only underscore what its inhabitants know to be a foregone conclusion: there is no refuge here.

While the film is a story of fiction, Timbuktu was, in fact, overrun with jihadists

not two years ago. The film is based largely on events there and elsewhere in the Arab World. (The city has since been liberated with the aid of French forces.)

In the Middle Ages, Timbuktu's riches were legendary; the city was the center of culture and commerce in West Africa. World history textbooks, in spite of all their relative ignorance of Africa, regularly include in bold the name of the emperor of Mali, Mansa Musa, who is said to have distributed thousands of pounds of gold on his pilgrimage to Mecca and was perhaps the richest man to have ever lived.

The Timbuktu of today — the one in the film — is a desert town, economically impoverished yet lush with the secular and artistic traditions of the Islamic Golden Age. Its geographic distance from the Middle East (and its lack of oil) has insulated it from much of the region's ideological extremism and unrest.

The film bears witness to all Muslims who suffer under religious extremism, but the cultural wealth and liberalism of Timbuktu satisfies those (few, I hope) who equate all Islam with radicalism Such modernism, by itself, informs both the wise, quiet defiance of the people, and the humanity of the jihadists.

Yes, the humanity of the jihadists.

The same soldiers who confiscate a football don't speak to each other about anything but the sport. The soldier who finds

\*\*\*\*

**Timbuktu** 

Directed by Abderrahmane Sissako

Starring Ibrahim Ahmed, Abel Jafri, Toulou Kiki

Rated PG-13

Now playing at the Kendall Square Cinema

musicians hears that they're singing praises to Allah, and questions his superiors about arresting them. Another spellbinds the town gypsy with his dancing. One of their leaders smokes.

None of the soldiers are psychopaths. Evil has become banal in their lives, too.

The sadness of the resignation of the film's characters is only exacerbated by their beauty: their clothing, their songs, the moments of affection between family members, particularly between Kidane and his daughter. The joy of their previous lives seems tangible, until it is not.

That, Sissako says, is when they win. Terrorism is a war of attrition.

**BALLET REVIEW** 

# True love and tragedy in Boston Ballet's *Lady of the Camellias*

Val Caniparoli adapts a famous Dumas love story

By Ray Wang
STAFF WRITER

Choreographed by Val Caniparoli, *Lady of the Camellias* by Boston Ballet is an emotion-filled display of the talent that makes the company so special.

The story of *Lady of the Camellias* is based on the novel of 19th century author Alexandre Dumas, well known for penning *The Three Musketeers* and *The Count of Monte Cristo*. Set to music by Chopin, the ballet follows the events of a courtesan, Marguerite Gautier, and a young gentleman, Armand Duval.

The story goes that Armand becomes smitten with Marguerite at a party at her apartment, and their love blossoms, much to the frustration of Marguerite's protector, the Baron de Varville. However, Armand's father appears in the summer of their love to Marguerite, and demands that she renounce Armand so that the family may maintain their respectability. Marguerite, who wishes to protect Armand, devises

a plan to deceive Armand and make him hate her, leading up to the tragic events of the third and final act.

# At just 5'1", Kuranaga performed with a superb level of technical skill and expressiveness.

Four pairs of principal dancers play Marguerite and Armand: Kathleen Breen Combes with Yury Yanowsky; Erica Cornejo with Lasha Khozashvili; Ashley Ellis with Sabi Varga; and Anais Chalendard with Eris Nezha.

The first of many beautiful pair dances, known as pas de deux, came at the end of the first act. On opening night, Combes and Yanowsky were splendid - she playing the delicate Marguerite, for whom true love is restoring her innocence, and he Armand, whose naivete and passion control his actions. Notably, Combes brought out one of the most tragic aspects of the story - the fact that Marguerite gradually succumbs to an unknown illness. Combes adds a perfect amount of fragility to each scene, making Marguerite's condition progressively more apparent. Without words, she conveys the suffering of her character and the strain of being governed by the interests of so many men.

Awing the audience with sheer strength was Bo Busby as Armand Duval, Sr. He towered over the rest of the cast, giving great articulation to his movements. Busby's arabesques, in which he extended one long leg and supported his weight on the other, looked almost ridiculous for a man of his stature, but they were all the more impressive. At the end of Act II, he drew gasps from the audience when he picked up the well-built Yanowsky in a father-son dance, cradling him with striking ease.

Lady of the Camellias

Venue: Boston Opera House

Running through March 8

But who truly stood out was the petite ballerina from Japan, principal dancer Misa Kuranaga as Nichette, a good friend of Marguerite's. At just 5'1", Kuranaga performed with a superb level of technical skill and, most surprisingly, expressiveness, despite her small size.

Music by 19th-century Romantic composer Frédéric Chopin accompanied the performance. Much of it was light solo piano, lilting over multiple pas de deux. Two operatic performances accompanied some of the most heartbreaking scenes. The score, just as much as the dancing, clung to the audience well after the ballet's dreamy conclusion.

**DANCE REVIEW** 

#### MoMA: Museum of MochA

A high-energy show that left the audience wanting more

By Stephanie Ihezie

This year, Mocha Moves performed "MoMA: Museum of MochA." Every set of the showcase was beautifully reminiscent of the artwork that inspired it and representative of the way that dance can tell stories. Mocha alumni served as MCs, introducing the appropriately named dance sets which alluded to historical paintings — "Girl with the Ratchet Earring," "Venus de Mocha," "The Mocha Lisa," "Persistence of Memory," and a flurry of other fun pieces.

Mocha Moves recreated one of Michael Jackson's famous dramatic pauses within the first three minutes of the show, and boy, did the audience go wild! The energy in the crowd was through the roof — people shouted, "Make it naughty now!," "Encore!", and of course, individual dance team member names.

The dancers performed with structured

movements and acrobatics throughout the show: there were roundhouse kicks, windmills, flares, and a moving handstand. I have to commend Mocha on their use of topography for their transitions. In one visual illusion, they mimicked the expanding and contracting motions of an octopus; in another, the bouncing bars of an equalizer. There was good use of varying spatial relationship between the dancers, and it's easy to see that they are a tight-knit group on and off the stage.

Both the dancers and the MCs were very interactive with the viewers, eliciting responses whenever they shouted, "make some noise!" They called audience members to the stage for challenges and walked among the audience to pose questions and make jokes. There was a dance competition where participants faced off to different tracks of music.

"Expressionism" was a standout piece

that told three separate stories all with the underlying theme of loss. The first story depicted the emotions that follow when a person receives bad news in the emergency room; the second was about a couple that is unable to endure a long-distance relationship; and the third depicted a guy caught between two girls but who ultimately loses them both. This dramatic set was choreographed by a Mocha alumna and the tragic themes of the piece were apparent when the emergency room wife tried to fly into the operating room to see her husband only to be caught mid air by another dancer. And let's not forget another heart-wrenching set called the "Persistence of Memory," which explored the significance of family. Following the mom and dad's split, the brother and sister struggle to maintain their bond, but inevitably their relationship is strained, reminding us that divorce impacts the kids.

One of my favorite things about the

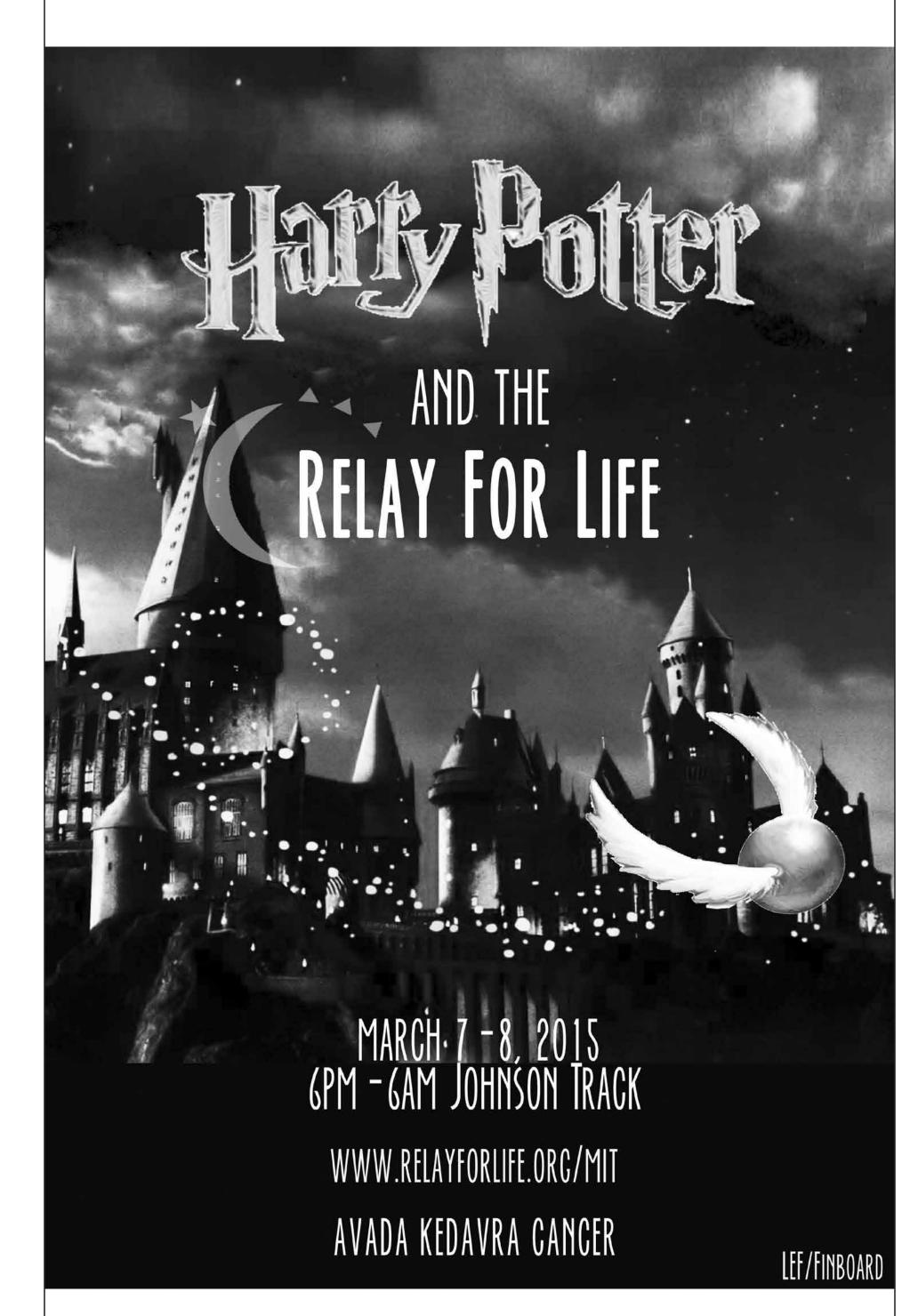
MoMA dance show was the masterful coordination of dancers. With more than 10 dancers on a team, motions can become sloppy very quickly. Yet in this show, the unexpected exits and entrances of certain dancers did not disrupt the rhythm or synchrony onstage.

MoMA may be one of the few dance shows where the MCs were able to keep the energy of the audience matching that of the dancers. Throughout the entire show, which lasted more than two hours, the audience was pumped up and made to feel, 'I want to get onstage and do that!'

Mocha Moves is a hot blend of richness. The diversity of this multiethnic, multinational, multicultural dance crew is reflected in the types of dance they do, ranging from dancehall and hip hop to salsa and ballet. As one Mocha alumnus said, "It's nice when we can get together and be represented."

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THURSDAY, MARCH 5, 2015



THURSDAY, MARCH 5, 2015

THE TECH 15

# Alabama Supreme Court rules same-sex marriage illegal despite federal judge's opposite decision

By Campbell Roberson

THE NEW YORK TIMES

The Alabama Supreme Court on Tuesday night ordered probate judges around the state to stop issuing marriage licenses to same-sex couples, ruling indirect opposition to a federal judge that the state's ban on same-sex marriage did not violate the U.S. Constitution.

In a 7-1 decision, the court ruled that "Alabama law allows for marriage' between only one man and one woman," and that the state sprobate judges "have a ministerial duty not to issue any marriage licensecontrary to this law."

While the court found that the state's probate judges were not legally bound by the multiple rulings by a U.S. District Court judge, Callie V.S. Granade, in favor of same-sex marriage, it also delivered a long andforceful refutation of her decision and the findings of federal judgesacross the country on same-sex marriage. "Government has an obvious interest in offspring and the consequencesthat flow from the creation of each new generation, which is only naturallypossible in the opposite-sex relationship, which is the primary reason marriage between men and women is sanctioned by state law,"

the courtruled

The ruling, on a petition brought by two conservative groups and joined by a county probate judge, is only the latest round in a battle over jurisdiction on the question of same-sex marriage in Alabama. The fight is likely to be decided by the U.S. Supreme Court.

This skirmish has gone on since Granade ruled in January that the state's ban on same-sex marriage, which 81 percent of voters approved in a 2006 referendum, was unconstitutional.

The night before her ruling was to go into effect, the chief justice of the state Supreme Court, Roy S. Moore, who abstained from voting in Tuesday's decision, issued an administrative order insisting that the state's 68 probate judges refrain from issuing the licenses. He based his reasoning in part on the fact that probate judges were not defendants in the case before

With competing orders— one from Granade, which the U.S. Supreme Court allowed to go into effect, and another by Moore— Alabama was a checkerboard of options for gay couples. Some judges, including those in Birmingham and Huntsville, granted licenses, while others refused, resulting in scenes of triumph, disappointment, joy and confusion.

On Feb. 12, Granade ruled that the probate judge for Mobile County couldnot continue to refuse to issue marriage licenses to samesex couples. The decision was, it seemed, another victory for gayrights advocates, whose lawyers saw it as a clear instruction to other holdout judges that they needed to begin issuing licenses. Many probate judges read it that way as well.

The Human Rights Campaign, a Washington, D.C.-based gay-rights group, said that, before Tuesday's ruling, at least 48 of Alabama's 67 counties were issuing licenses to all couples.

Meanwhile, the two conservative groups, the Alabama Policy Institute and the Alabama Citizens Action Program, had asked the Alabama Supreme Court to tell the probate judges to stop issuing marriage licenses to gay couples.

Eric Johnston, a lawyer for the Alabama Policy Institute and the Alabama Citizens Action Program, said he expected the state court's ruling to put an end to same-sex marriages "until the U.S. Supreme Court addresses it, finally, in June of this year."

"We don't need mass confusion with judges in Alabama," he said.

Elmore County Probate Judge John E. Enslen, who had joined the petition and has refused to issue licenses to gay couples, agreed. "It makes me wonder why some states caved so quickly to lower federal court rulings in the absence of a ruling from the United States Supreme Court," he wrote in an email.

In the decision, the justices insisted they could "interpret the United States Constitution independently from, and even contrary to, federal courts," and did just that. They took on not just Granade's ruling point by point but also took issue with the U.S. Supreme Court's ruling striking down parts of the federal Defense of Marriage Act in 2013. The justices said that marriage was a state matter but also made a more sweeping case, maintaining that only marriage between a man and a woman "provides the optimum environment for defining the responsibilities of parents and for raising children to become productive members of society."

Justice James Gregory Shaw was the dissenter, questioning the ruling on several procedural grounds and concluding that the court was venturing into uncharted waters "and potentially unsettling established principles of law."

Ronald Krotoszynski, a constitutional law professor at the University of Alabama, found the court's ruling shocking.

"You might read it as kind of a brief or a political document to the Supreme Court of the United States," he said. "They're trying to lobby."

Krotoszynski said that some of Alabama's probate judges could choose to appeal the Supreme Court's ruling to the U.S. Supreme Court on an emergency basis.

A section of Tuesday's ruling said that probate judges could file papers within five days to argue they should not be bound by the state justices' decision.

In a statement, the Human Rights Campaign called the decision "bizarre."

"The Alabama State Supreme Court does not have the authority to interfere with a federal court order," said Sarah Warbelow, the group's legal director. "This order is outrageous and baffling, and no amount of legalese can hide the bare animus that forms the foundation of this extralegal ruling."

Probate Judge Rick Allison of Walker County, who has not issued licenses to any couple in recent weeks, said that he had not reviewed the ruling but that it could lead to changes in his office.

Allison said it was difficult for county-level judges to interpret all the competing rulings.

"We don't have a lot of leeway," he said. "When you have somebody saying it's this and another saying it's this, you really don't know what to do."

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16 The Tech \_\_\_\_\_\_Thursday. March 5, 2015

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We invite you to attend an informational meeting to share your comments about the future of late-night service.

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  Such services are provided free of charge.
- Written comments will also be accepted through Wednesday, March 11, 2015, and should be mailed to: MBTA, 10 Park Plaza, Room 2310, Boston, MA 02116, Attention: Late-Night Service Committee, or electronically at the MBTA website mbta.com, by email at latenightservice@ mbta.com, or by phone at (617) 222-3200, TTY (617) 222-5146.

#### **MEETING LOCATIONS**

#### Monday, March 9

5:30 p.m.–7:30 p.m. Sheraton Commander Hotel Mount Vernon Room 16 Garden Street Cambridge, MA 02138

#### Tuesday, March 10

3:30 p.m.–5:30 p.m.
The Inn at Longwood
Medical
Longwood Hall
342 Longwood Ave.
Boston, MA 02115

#### Wednesday, March 11

3 p.m.–5 p.m.
State Transportation
Building
Transportation Library
10 Park Plaza
Boston, MA 02116

If this information is needed in another language, please contact the MBTA Title VI Specialist at 617-222-3200.

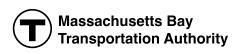
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Thursday, March 5, 2015 **THE TECH 17** 

#### **Solution to Pipes Down Solution to Saturday** Solution to Saturday from page 8 ASCH NCAA ADDS MOUE ELLS LEICA FDICPOET OVERT MASK LURE HITIT INDUSTRIALSPY GENOESE SCOT IRAM LUAU HERBAL GIRLELUGER YALE INTACT HMOS NON WARN UNAIDED MOUNTAINLIONS OUNCE MISC AHAB OSCAR ROIL SELL STARE OBOE ELSE SPED DENS CLOD From page 7 C H A D G G O W N T V S E T A U T O E D I E H O T L Y F L O Z F I N E O C E A N E L M E R F U D D M A P L E M E M I W A L S N O W I N N E W S C A S T C O H A N T S P S O S H A I R A T E R T E P R I O R F A R E W I R E A D D U P I D A R E Y O U A S S E T S M A O M A C S D O R A G L E T T E R B O X E M A I N E P T U I I O T A E R N S T E S P N S K Y Y



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Public Service Career Exploration Panel Tuesday, March 10 5:30 to 6:30 Building 2 - 105

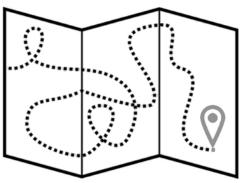


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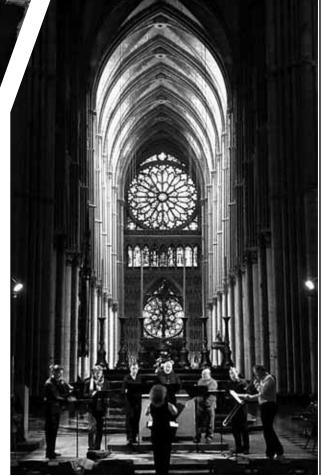
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18 THE TECH
THURSDAY, MARCH 5, 2015



The bridge connecting Buildings 12 and 24 was removed on Saturday in preparation for the demolition of Building 12.

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Need technical support or help getting started? Email student-title-ix@googlegroups.com

# Students reach out after loss

Coming together for peer support

Nehring, from Page 1

no greater source of support than the sympathy and kindness of the people we know best."

Reif and Miller encouraged students to reach out if they needed help or guidance.

Several students had already responded to the news by sending emails to the East Campus community, offering condolences and welcoming their peers into their rooms to pray and discuss issues like stress and depression.

A community gathering was held Tuesday in remembrance of Nehring. Students and faculty filled Lobby 10, some standing on the second floor balconies. The mood seemed reflective as President Reif addressed the gathered crowd. "Today is a time to listen to each other and take care of one another," he said

Nehring was a valued member of *The Tech*'s business department.

"Matt has paid all our bills, ensuring that all our vendors are paid on time, that all our payments are accurately recorded in our accounting system, and that we don't incur late fees. He was extremely smart, diligent, and kind — always doing an amazing job and really fun to be around," *The Tech*'s business manager, Fiona Lam '17, said.

Nehring was also associated with the Media Lab through his participation in the Media Arts and Science freshman learning and mentoring program. "We mourn the death of freshman Matthew Nehring. A tragic loss for the @MIT and @medialab communities," the MIT Media Lab tweeted Monday.

Members of the MIT community who feel affected by the death 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 617-253-4481 during nights and weekends.

Know something important we should write about?

(We probably don't know about it.)

Let us know.

news@tech.mit.edu

THURSDAY, MARCH 5, 2015 THE TECH 19

#### All teams put on winning displays

### Taekwondo team looking to build on successful Cornell tournament

Taekwondo, from Page 20

most competitive men's and women's black-belt poomsae divisions. The top poomsae medals began in the women's red belt divisions, with Jean Chow '16 earning a silver medal and Yang Dai '16 right behind her with the bronze. Tahin Syed G earned a silver medal in the men's red belt division. Green belt Eric Chen '17 also earned a silver medal in his division. Yellow belts Ekapob "Golf" Kulchoakrungsun '16 and Sam Amey-Gonzalez '18 won silver and bronze, respectively.

#### Andrea Guatemala started off with a point gap win in 41 seconds.

Sparring was intense and the point totals were close across all of the divisions. There were many great fights, and the team's overall technique and strength showed a jump from the last tournament at Cornell. All three divisions (A, B, and C teams) won points for the club. Both of the women's A teams made it to quarters. Women's A1 Andrea Guatemala '16 started off by completing a point gap win in 41 seconds. Tam Nguyen G showed

great defensive skills in both of her matches. Olga Shestopalova '16 focused on offense during her women's A1 match against Brown, and stayed strong against constant head kicks. Women's A2 team also started off with a point gap from Maria Alexis G. Renee Zhao had solid turning kicks in her rematch against a heavyweight from Cornell.

Men's A1 had to fight through a deep bracket of four matches to earn a silver medal. Some highlights were Enrique Fernandez Gonzalez G's 13-0 point gap win against Penn State. George Cheng '15 also ended a match with a 5-0 point gap, and his opponent left the ring with a bloody nose. Their last match against Cornell ended in a loss, but the exhausted fighters gave it their  $all.\,Emmanuel\,Quevedo\,G\,managed$ to only be scored on three times by a dangerous Cornell fighter.

The B and C teams continue to improve in technique and power. Women's B1 (Jean Chow, Casey Denham '15, Rachel Harris '17) earned a bronze medal, and Women's B2 (Yang Dai, Jackie Wu'16) finished in the quarter-finals. Men's B1 (Tahin Syed G, Shapagat Berdibek '15, Eric Klinkhammer '15) and Men's C1 (Golf Kulchoakrungsun, Eric Chen '17, Aaron van Dyne G) also earned bronze medals in their respective divisions.

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# MIT places second at Cornell tourney

#### Taekwondo ends semester strong

By Samantha Amey-Gonzalez

The MIT Sport Taekwondo team finished off last semester at

Brown on Nov. 22. As it was the third match of the year in the Eastern Collegiate Taekwondo Conference, the competitors were eager to use the skills that they improved upon over the course of the

proved upon over the course of the semester. Both poomsae and sparring were tough this tournament, but the team showed their worth and finished off the day second place in Division I.

The morning poomsae competitions were extremely close, and many team members took spots in the top 10 in each belt division. The team's forms were looking fantastic, but the divisions were tough, and it was clear that competitors from all schools were stepping up their game for Brown. Black belts Kevin Hu '15 and Renee Zhao '18 went to finals in the

Taekwondo, Page 19

#### **UPCOMING HOME EVENTS**

#### Friday, March 6

Men's Tennis vs. Vassar College

#### Saturday, March 7

RIFLE vs. MAC Championships

Men's Volleyball vs. Elmira College

Men's Tennis vs. Queens College

Women's Lacrosse vs. Lasell College

Men's Lacrosse vs. Skidmore College

Men's Volleyball vs. Stevens Institute of Technology

#### Monday, March 9

Men's Tennis vs. Amherst College

#### Tuesday, March 10

Men's Volleyball vs. Dominican University Women's Lacrosse vs. Simmons College 4 p.m., J.B. Carr Tennis Bubble

8 a.m., duPont Athletic Center 11 a.m., Rockwell Cage

1 p.m., J.B. Carr Tennis Bubble 1 p.m., Steinbrenner Stadium

2 p.m., Steinbrenner Stadium 5 p.m., Rockwell Cage

1 p.m., J.B. Carr Tennis Bubble

7 p.m., Rockwell Cage 7 p.m., Steinbrenner Stadium



SARAH LIU—THE TECH

**Kevin Wang '16 reaches for a volley** on Friday's men's tennis match against UMass Boston. MIT defeated UMass Boston 9-0.

# Men's tennis picked to repeat championship

#### Coaches pick MIT as favorites in poll

By Matthew Noonan

DAPER STAFF

After capturing the program's 16th consecutive conference crown last spring, the MIT men's tennis team was

picked to win the New England Women's and Men's Athletic Conference (NEWMAC) crown, as announced by the league last Friday morning. Tech received seven

first-place votes in the preseason poll — votes were casted by the conference's coaches.

Tech, which has captured the league crown for 16 straight years, defeated

Babson College last spring in the NEW-MAC Championship by a score of 6-0. MIT advanced to the NCAA Tournament and defeated Nichols College in the first round before falling to Bowdoin College in the second round.

MIT commenced its spring season on Friday, Feb. 20 with a 7-2 win over non-conference foe Bentley University and followed up last Friday with a 9-0 win over UMass Boston.

Tech opens conference play on Wednesday, April 1 as the Engineers host Babson in a rematch of last year's title match. Babson was picked to finish second in the preseason poll, while U.S. Coast Guard Academy was projected to finish third.



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