

# Fossil-free donations are sought

*Group to hold cash until MIT divests*

By Jennifer F. Switzer  
STAFF REPORTER

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



MELISSA RENÉE SCHUMACHER—THE TECH

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  
NEWS EDITORS

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



JANE FLAVELL COLLINS—AP

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 re-

opening 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](mailto: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 said.

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

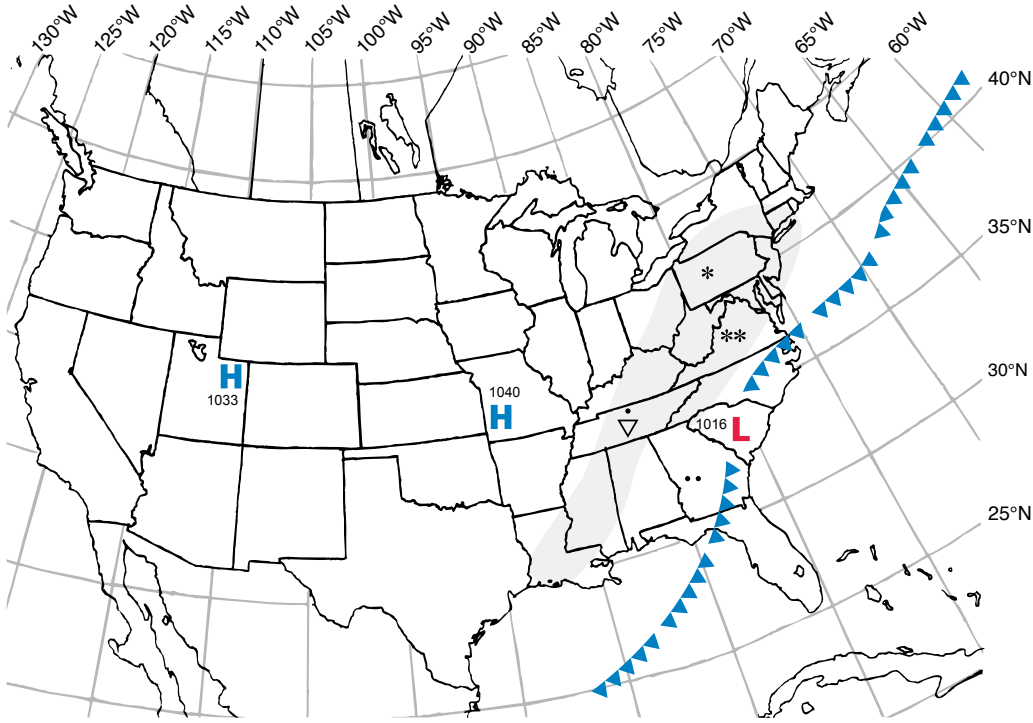
Slush filled the streets yesterday as temperatures around Boston broke 40 °F for the first time since early January. Bostonians have gained a sense of “weather relativity” this week. Some may call the warmer weather a return to normalcy; for others, it’s a heat wave. Most of the brutal weather this winter 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.



Situation for Noon Eastern Time, Thursday, March 5, 2015

Weather Systems	Weather Fronts	Precipitation Symbols	Other Symbols
<b>H</b> High Pressure	--- Trough	Snow *	Fog
<b>L</b> Low Pressure	Warm Front	Shower ∇	Thunderstorm
§ Hurricane	Cold Front	Light *	Haze
	Stationary Front	Moderate **	
		Heavy ***	



MacVicar Day 2015

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

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Reception: 4:00 – 5:00 PM

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MIT Medical

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[medical.mit.edu/mentalhealth](http://medical.mit.edu/mentalhealth)  
(617) 253-2916

Solution to Sudoku I  
*from page 7*

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	4	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	3	5
2	1	3	7	8	5	6	4	9
4	6	5	1	9	3	2	8	7
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  
*from page 7*

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  
*from page 7*

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




Photo: Richard Howard

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



MIT CCE  
STUDENT  
SYMPOSIUM

2015

Thursday, March 12  
5:00 PM | 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.

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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 nuclear-threshold 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 widespread 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](mailto: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<sub>2</sub> 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.*

# 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

Civic.

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 shoe-bomber 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 University of Massachusetts at Dartmouth.

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 cold-blooded 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-person jury.

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

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 process.

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

months of questioning and eliminating 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.

*The MIT LINDY HOP SOCIETY and the MIT BALLROOM DANCE CLUB proudly present*

## A Fusion Social Dance and Concert



featuring  
Amy Kucharik and  
Friends  
with  
Benefits

Friday  
March 6



Laura Melman

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, lyrics.

*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](mailto:swing@mit.edu)

# Sudoku I

Solution, page 3

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

20x		12+			18x
4-		60x			
	24x		108x		2
12x		2x		20x	
	3x			60x	
6		20x			

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

20+				2x	
21+				36x	
		14+			
4x		12x	20x		5-
3				6	
6x		6x		20x	

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.

### DOWN

- 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
- 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

1	2	3	4		5	6	7	8		9	10	11	12	13
14					15					16				
17					18					19				
20				21						22				
				23					24					
25	26	27	28				29	30				31	32	33
34						35				36				
37						38				39				
40					41					42				
43				44					45					
			46				47	48						
49	50	51				52					53	54	55	56
57						58					59			
60						61					62			
63						64					65			

- 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



THERE ARE FOUR FUNDAMENTAL FORCES BETWEEN PARTICLES: (1) GRAVITY, WHICH OBEYS THIS INVERSE SQUARE LAW:

$$F_{\text{gravity}} = G \frac{m_1 m_2}{d^2}$$

OK...

(2) ELECTROMAGNETISM, WHICH OBEYS THIS INVERSE-SQUARE LAW:

$$F_{\text{static}} = k_e \frac{q_1 q_2}{d^2}$$

AND ALSO MAXWELL'S EQUATIONS

ALSO WHAT?

(3) THE STRONG NUCLEAR FORCE, WHICH OBEYS, UH...

...WELL, UMM...

...IT HOLDS PROTONS AND NEUTRONS TOGETHER.

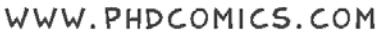
IT'S STRONG.

I SEE.

AND (4) THE WEAK FORCE. IT [MUMBLE MUMBLE] RADIOACTIVE DECAY [MUMBLE MUMBLE]

THAT'S NOT A SENTENCE. YOU JUST SAID 'RADIO-

- AND THOSE ARE THE FOUR FUNDAMENTAL FORCES!



JORGE CHAM © 2014

Solution, page 17

- 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 chain
- 54 Word from the Latin for "twelfth"
- 55 Undiscriminating, for short

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

- 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

1	2	3	4		5	6	7	8		9	10	11	12	
13					14					15				16
17					18					19				
20					21					22				
		23		24					25					
26	27							28						
29				30			31		32			33	34	35
36			37		38			39			40			
41				42			43			44		45		
			46			47		48			49			
50	51	52					53							
54						55					56		57	58
59						60					61			
62						63					64			
	65					66					67			

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



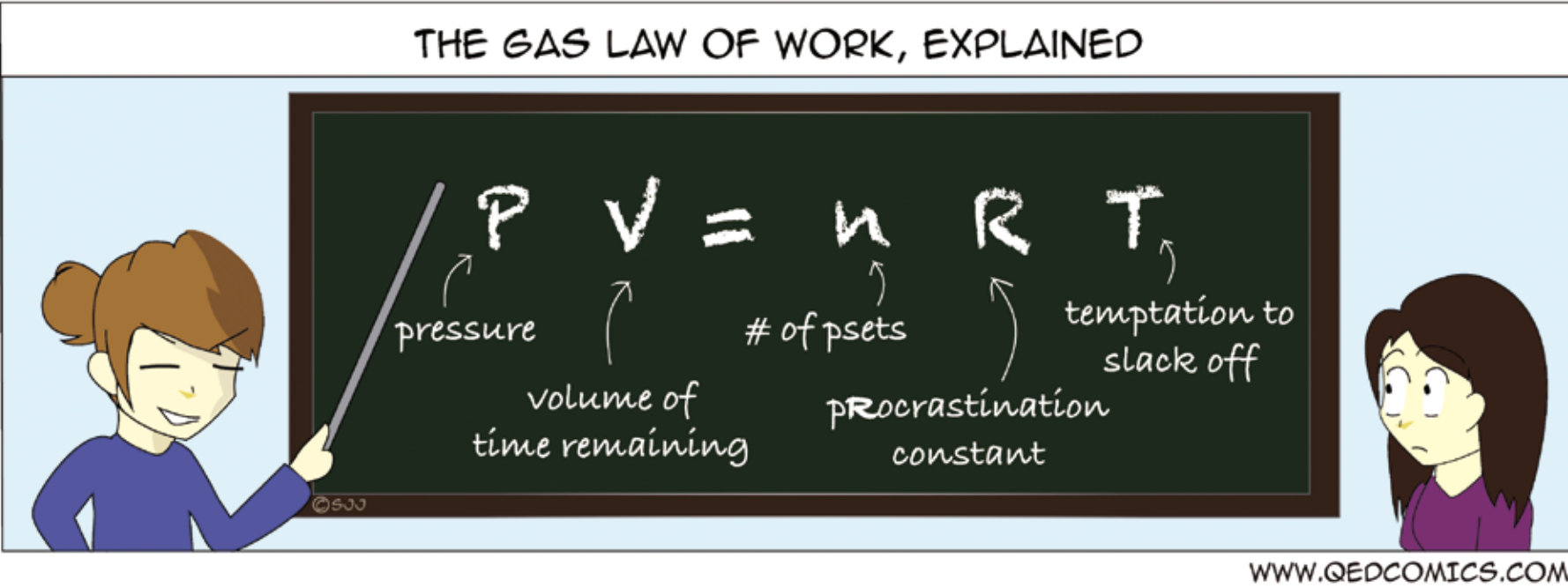
UPPERCUT

by Steve Sullivan



Q.E.D.

BY ERIKA TRENT



# AD-MIT group to withhold donations

## Alumni hope to force divestment

**Divestment**, from Page 1

ticipating universities that have by then divested.

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 said.

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 2015.

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 greater.

“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.

Can you beat this drawing?  
Join Illustrators at The Tech!

E-mail [join@tech.mit.edu](mailto:join@tech.mit.edu)



# Temple Grandin

Film screening  
Wed, March 11, 2015  
7:30 - 9:30pm  
Limited seating  
First come first served

**MIT Media Lab  
Bartos Theater  
E15-070**

A biopic of Temple Grandin, an autistic woman who has become one of the top scientists in the humane livestock handling industry.

Director: Mike Jackson  
Stars: Clair Danes, Julia Ormond, Davis Strahairn



For Questions:  
[wellbeing-events@media.mit.edu](mailto:wellbeing-events@media.mit.edu)

# Temple Grandin

Helping Different  
Kinds of Minds to  
Succeed

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



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](mailto:wellbeing-events@media.mit.edu)





**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.**

SARAH LIU—THE TECH

# 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 attend.

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

# Homebuying 101

Whether it’s your first or you’re in the market again, learn what’s involved in buying a house at this free, informative seminar.

**March 19th | 5-7PM | Cambridge Marriott**

Spring 2015 is going to be a great time to buy. Join us simply by registering online at **mitfcu.org**.

*Helping make home ownership yours is a higher degree of banking.*



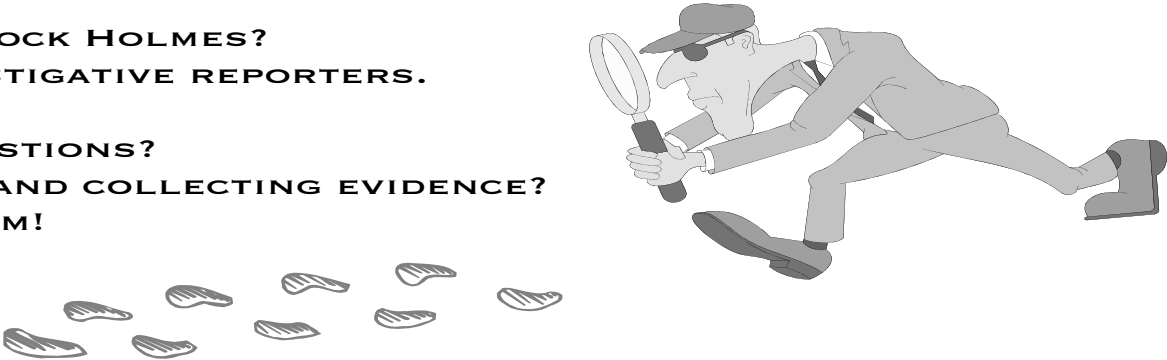
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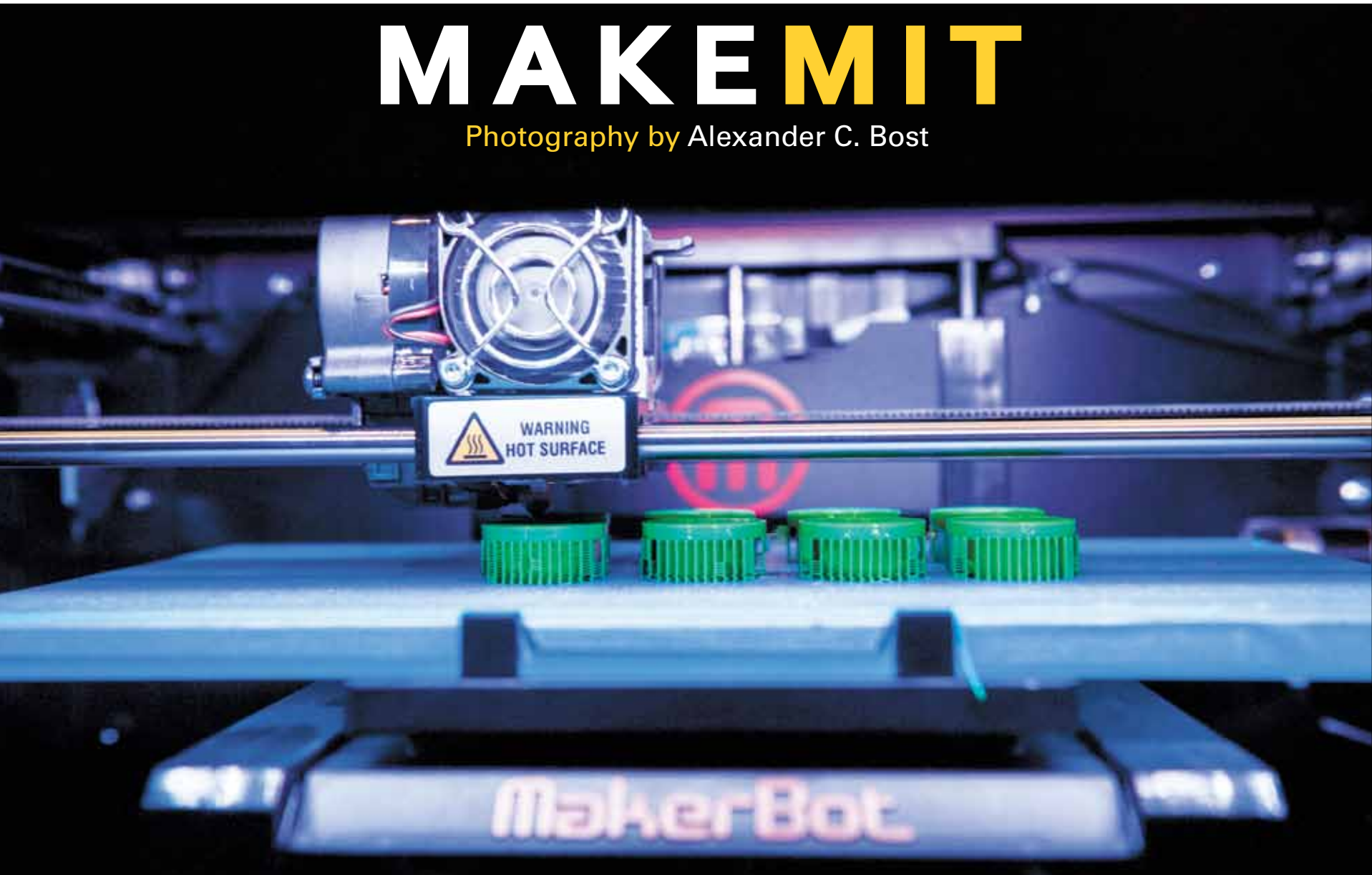




Jack Erdozain '17 uses a dremel to modify an electric motor mount.



The lower floor of the hackathon in Lobdell.



A MakerBot 3D printer prints plastic parts during the hackathon.



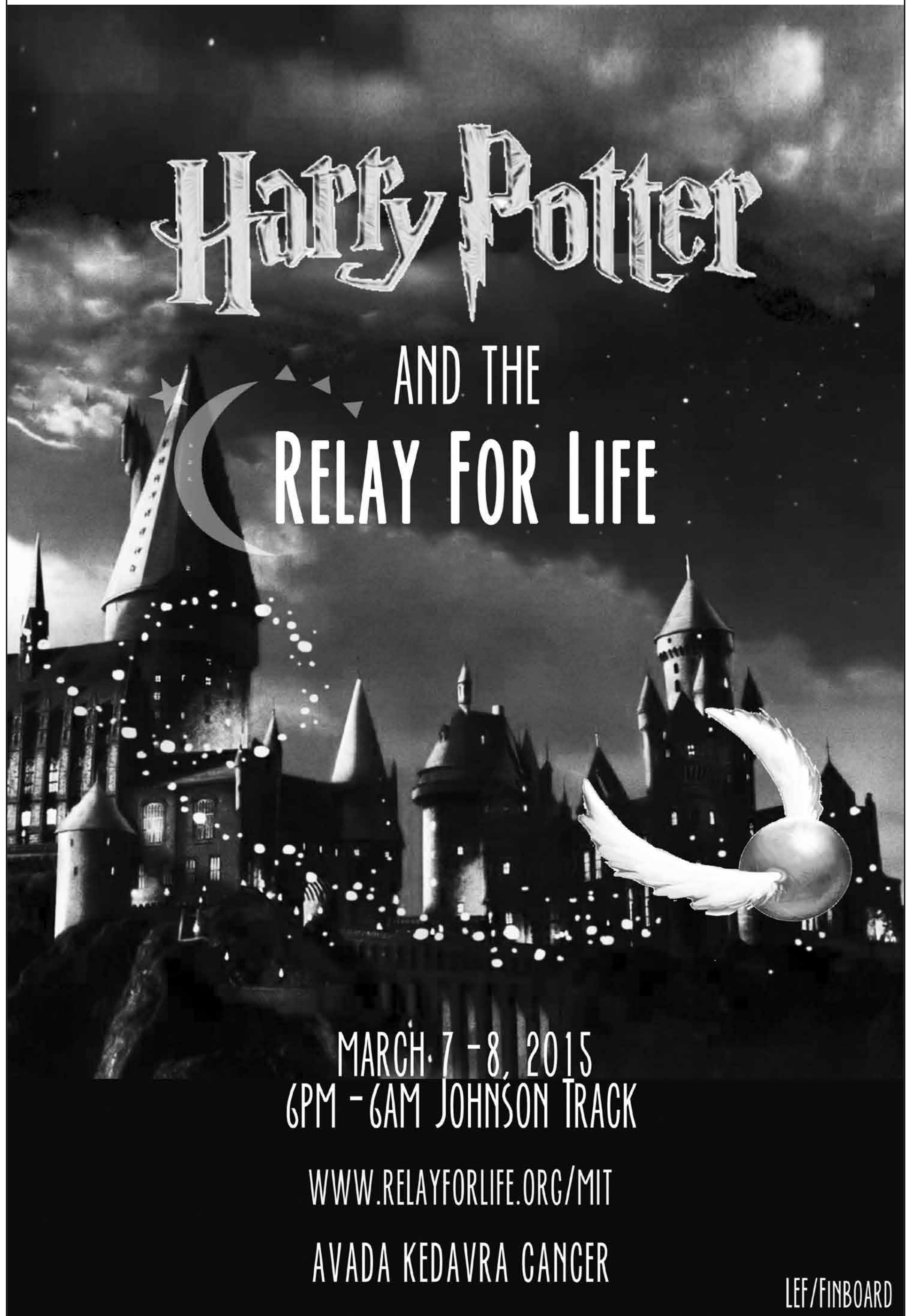
A team works on their project during the hackathon.



One of the participants grabs a quick nap during the hackathon.





A black and white poster for a Harry Potter-themed Relay for Life event. The background features a dark, cloudy night sky with a full moon and a silhouette of Hogwarts Castle. The castle is illuminated with numerous small, glowing lights. In the foreground, a large, stylized crescent moon is positioned behind the text. A single, large, glowing feather is shown in flight, trailing a bright, circular light. The text is arranged in a central, vertical layout.

# Harry Potter

AND THE

## RELAY FOR LIFE

MARCH 7 - 8, 2015  
6PM - 6AM JOHNSON TRACK

[WWW.RELAYFORLIFE.ORG/MIT](http://WWW.RELAYFORLIFE.ORG/MIT)

AVADA KEDAVRA CANCER

LEF/FINBOARD



# 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’s probate judges “have a ministerial duty not to issue any marriage license contrary 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 and forceful refutation of her decision and the findings of federal judges across the country on same-sex marriage. “Government has an obvious interest in offspring and the consequences that flow from the creation of each new generation, which is only naturally possible in the opposite-sex relationship, which is the primary reason marriage between men and women is sanctioned by state law,”

the court ruled. 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 Granade.

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 could not continue to refuse to issue marriage licenses to same-sex couples. The decision was, it seemed, another victory for gay-rights 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.”

# Do you have a story to tell?

## Can you tell a personal story in writing or in an interview?

### The Tech wants to publish stories from the MIT community



### Sample topics:

Experiencing discrimination at MIT

Choosing between divergent career paths

Your slice of MIT culture

Romance at MIT

Or anything else you can tell as a compelling story

Email [cl@the-tech.mit.edu](mailto:cl@the-tech.mit.edu) with stories or proposals

# Join us for an informational meeting on The Future of Late-Night Service



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

- This event is accessible to people with disabilities and individuals with limited English proficiency. If you need a reasonable accommodation (such as American Sign Language Interpreters, assistive listening devices, handouts in alternate formats, etc.) and/or language assistance (such as translated documents or an interpreter) to fully participate, please contact MBTA Marketing at (617) 222-5740 or email [latenightservice@mbta.com](mailto:latenightservice@mbta.com) at least 7 days prior to the event. 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](http://mbta.com), by email at [latenightservice@mbta.com](mailto:latenightservice@mbta.com), or by phone at (617) 222-3200, TTY (617) 222-5146.

## MEETING LOCATIONS

Monday, March 9	Tuesday, March 10	Wednesday, March 11
5:30 p.m.–7:30 p.m.	3:30 p.m.–5:30 p.m.	3 p.m.–5 p.m.
Sheraton Commander Hotel	The Inn at Longwood Medical	State Transportation Building
Mount Vernon Room	Longwood Hall	Transportation Library
16 Garden Street	342 Longwood Ave.	10 Park Plaza
Cambridge, MA 02138	Boston, MA 02115	Boston, MA 02116

If this information is needed in another language, please contact the MBTA Title VI Specialist at 617-222-3200.  
Caso esta informação seja necessária em outro idioma, favor contar o Especialista em Título VI do MBTA pelo telefone 617-222-3200.  
Si necesita esta información en otro idioma, por favor contacte al especialista de MBTA del Título VI al 617-222-3200.  
如果需要使用其它语言了解信息, 请联系麻沙湾区交通局 (MBTA) 《民权法案》第六章专员, 电话617-222-3200。  
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Si yon moun vle genyen enfòmasyon sa yo nan yon lòt lang, tanpri kontakte Espesyalis MBTA Title VI la nan nimewo 617-222-3200.  
Nếu quý vị cần thông tin này bằng tiếng khác, vui lòng liên hệ Chuyên viên Luật VI của MBTA theo số điện thoại 617-222-3200.

Please visit [mbta.com](http://mbta.com) for a complete list of informational meetings.



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SCHOOL OF HUMANITIES, ARTS & SOCIAL SCIENCES



### Solution to Pipes Down


from page 7

CHAD	GOWN	TVSET
AUTO	EDIE	HOTLY
FLOZ	FINE	OCEAN
ELMER	FUDD	MAPLE
HEMI VAL		
SNOW	IN	NEWSCAST
COHAN	TSPS	OSHA
IRATE	RTE	PRIOR
FARE	WIRE	ADDUP
IDARE	YOU	ASSETS
MAO MACS		
DORAG	LETTERBOX	
EMAIL	ONES	BOAR
LAIN	PTUI	IOTA
ERNST	ESPN	SKYY

### Solution to Saturday

from page 8

ASCH	NCAA	ADDS
MOUE	ELLS	LEICA
FDIC	POET	OVERT
MASK	LURE	HITIT
INDUSTRIALSPY		
GENO	ESE	SCOT
IRA	LUAU	HERBAL
GIRL	LUGER	YALE
INTACT	HMOS	NON
WARN UNAIDED		
MOUNTAINLIONS		
OUNCE	MISC	AHAB
OSCAR	ROIL	SELL
STARE	OBOE	ELSE
SPED	DENS	CLOD




## Peace Corps at MIT

### Public Service Career Exploration Panel

Tuesday, March 10

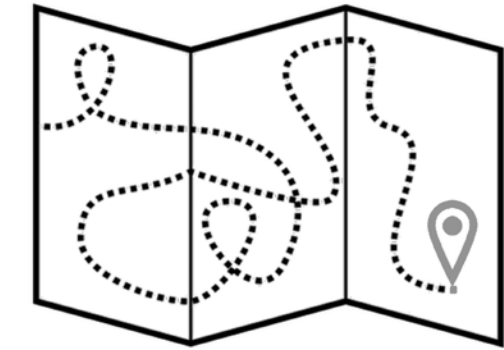
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The bridge connecting Buildings 12 and 24 was removed on Saturday in preparation for the demolition of Building 12.

MELISSA RENÉE SCHUMACHER—THE TECH

# 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.

# CALLING ALL MIT...

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Submit a 1.5-2.5 minute viral video starring your group to  
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# 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.

# Kendall Hip, not Square.



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## Taekwondo ends semester strong

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 semester. Both poomsae and sparring were tough this tournament,

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**



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.

## Friday, March 6

## Men's Tennis vs. Vassar College

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

## Saturday, March 7

## RIFLE vs. MAC Championships

8 a.m., duPont Athletic Center

Men's Volleyball vs. Elmira College

11 a.m., Rockwell Cage

## Men's Tennis vs. Queens College

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

## Women's Lacrosse vs. Lasell College

1 p.m., Steinbrenner Stadium

## Men's Lacrosse vs. Skidmore College

2 p.m., Steinbrenner Stadium

## Men's Volleyball vs. Stevens Institute of Technology

5 p.m., Rockwell Cage

## Monday, March 9

## Men's Tennis vs. Amherst College

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

**Tuesday, March 10**

## Men's Volleyball vs. Dominican University

7 p.m., Rockwell Cage

## Women's Lacrosse vs. Simmons College

7 p.m., Steinbrenner Stadium

# 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 Tourna-  
ment 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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