

Memorial unveiled in honor of Collier

Slain officer is remembered during ceremony in front of Stata Center

By Jennifer F. Switzer
STAFF REPORTER

The dedication of a permanent memorial to Officer Sean A. Collier was held on April 29 in a ceremony that emphasized the strength of both Collier and the MIT community.

“The permanent memorial is intended to be a place of remembrance and reflection, a place that evokes the strength of Collier Strong, a place that reflects the connectedness of our community,” said Executive Vice President Israel Ruiz SM ’01 in his opening remarks.

Collier had been fatally shot by the Boston Marathon bombers as he

sat in his police cruiser by the Stata Center — feet from where the memorial now stands — shortly after the bombings in 2013. The trial of the only surviving bomber, Dzhokhar Tsarnaev, is currently in its sentencing phase.

At the corner of Main and Vassar streets, the memorial to Collier is composed of 32 interlocking granite blocks, held together by nothing but clever geometry and the force of gravity and friction.

President L. Rafael Reif saw these forces as an analogy for the often invisible forces between members of a



VIVIAN HU—THE TECH

Sean Collier’s 2-year-old cousin crouches by the new memorial following Wednesday’s dedication. The ceremony was attended by hundreds of people, including students, MIT President Rafael L. Reif, and police officers from nearby towns.

Memorial, Page 16

Settlement requires edX to supply features for those with disabilities

Federal review found online course site in violation of ADA

By Katherine Nazemi
NEWS EDITOR

edX has entered into a settlement with the Department of Justice over allegations that the online course provider was not fully accessible to people with disabilities, in violation of federal law.

The settlement comes during a separate, ongoing lawsuit between MIT and the National Association for the Deaf (NAD) over a lack of closed captioning in online course videos and educational materials. MIT is due to reply to the NAD’s complaint by May 11.

According to a press release

from the Department of Justice, the settlement will require edX to make “significant modifications” to its website, mobile applications, and content management system.

In particular, the settlement will require edX to make its website “fully accessible” within 18 months of April 2, the date the settlement was reached. This will entail providing “accurate captioning for the deaf, oral navigation signals for the blind, and programming changes so those with dexterity disabilities can navigate content without struggling with a hand-operated mouse,” according to the release.

edX will not have to make any

changes to the content of courses offered through its platform, but will provide guidance to course creators on best practices for making fully accessible online content.

The settlement came after a compliance review undertaken by the Department of Justice found edX to be in violation of the Americans with Disabilities Act (ADA). Specifically, edX was found to violate Title III of the ADA, which prohibits “public accommodations” — including privately owned places of education — from discriminating against people with disabilities or barring people

Settlement, Page 17

IN SHORT

Pre-registration for the fall semester opens May 1. Students must pre-register for a CI-H/HW subject by June 15.

A subject with a final exam may not give assignments or tests after Friday, May 8. To report a violation to the UA, email violations@mit.edu.

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

Funding cuts hurt US innovation, report says

MIT authors say nation’s competitiveness is at stake as Europe, Asia invest in R&D

By Rohan Banerjee
STAFF REPORTER

Decreased federal investment in academic basic research will hinder innovation in industries and at universities, according to a report, entitled “The Future Postponed,” written by a committee of 30 MIT faculty members and administrators.

The report, released Monday, listed 15 specific areas of basic re-

search that would benefit from increased government support. The committee says that its aim is to combat the growing innovation deficit between the U.S. and other nations.

The Tech spoke with physics professor Mark Kastner, chair of the MIT Committee to Evaluate the Innovation Deficit, which prepared the report. He said that the primary

Funding, Page 18

SpringFest concert sees increase in attendance

Budget plan of \$17,000 lowered to \$500 by UA

By William A. Rodriguez
STAFF REPORTER

Despite the rejection of its budget plan by the Undergraduate Association, the UA Events Committee held its annual SpringFEST, organizing events throughout last week leading up to Saturday’s concert.

Headlined by rapper Lupe Fiasco and Boston-based band Bad Rabbits, the concert managed to draw about 1,450 attendees, an

increase from last year.

The UA Events Committee had initially requested a budget of around \$17,000 for SpringFEST weekend, which was presented twice to the UA council and rejected both times despite adjustments made according to the council’s feedback. Ultimately, the UA only approved \$500, which was allocated to buying Ben & Jerry’s ice cream.

SpringFest, Page 14

Upright piano destroyed on last day to drop classes



TRISTAN HONSCHEID—THE TECH

Students drop a piano from the roof of Baker House in an annual Drop Date celebration.

CHEATING FOR THE FEDERAL FUNDING

Atlanta public schools cheating case reveals truths about U.S. education. **OPINION**, p. 4

MTG’S SPRING AWAKENING

Check out iconic scenes from MTG’s newest production. **PHOTO**, p. 11

UNIFIED CLASS FLIES HIGH

See the planes that flew in this year’s Unified competition. **PHOTO**, p. 12



LUPE FIASCO RETURNS FROM 2006

... to sing at SpringFest 2015. **PHOTO**, p. 10

HOW OLD IS ADALINE EVEN?

Find out in our movie review. **ARTS**, p. 9

SECTIONS

Weather2
Opinion4
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Arts8
Campus Life13
Sports20

All quiet on the Eastern front

A more-or-less benign weather pattern will lead to cloudy skies and mild temperatures into the weekend. For the next few days, a so-called 'backdoor front' will influence New England weather. In contrast to typical cold fronts, which channel in cooler air from the northwest, backdoor cold fronts approach from the northeast. During the spring months in New England, this

The front we'll be dealing with developed in response to a low pressure system to the southwest. Cooler, maritime air will linger in the region through Saturday, keeping a slight chance of drizzle in the forecast. By Sunday, winds shift to the southwest as high pressure begins building in from the west. Expect highs to return to the 60s°F (15°C) with mostly sunny skies by early next week.

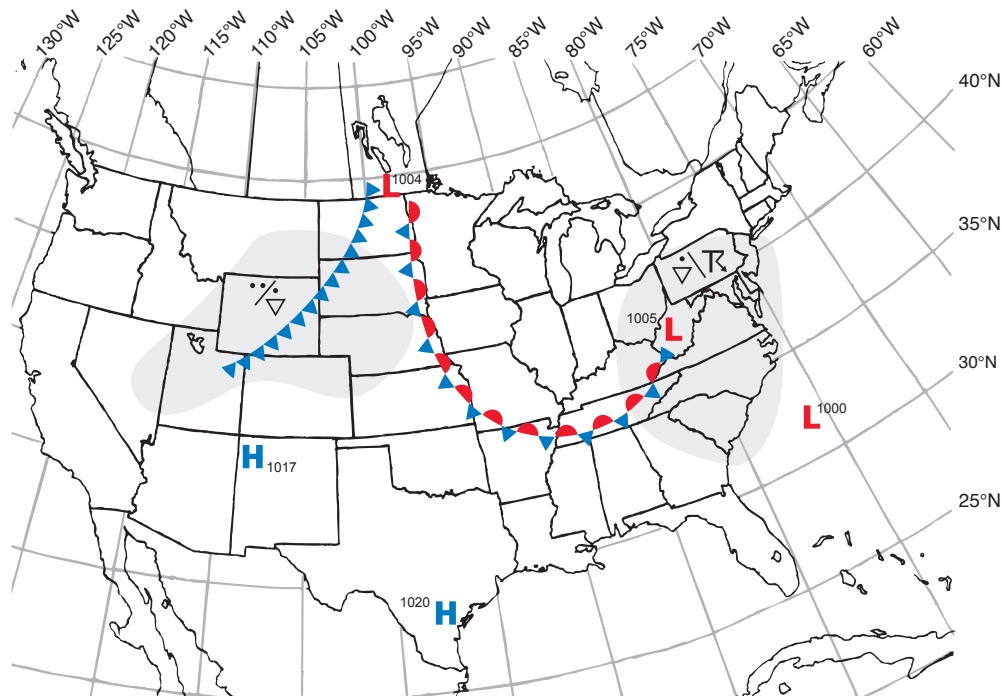
Today: Cloudy with a high of 56°F (13°C). Easterly winds at 6 mph.

Tonight: Cloudy with a low of 44°F (7°C). Winds from the northeast at 6 mph.

Tomorrow: Cloudy with a high of 49°F (9°C). Winds from the northeast at 10–15 mph.

Saturday: Mostly cloudy with a high of 57°F (14°C).

Sunday: Mostly sunny with a high in the middle 60s °F (10°C).



Weather Systems	Weather Fronts	Precipitation Symbols	Other Symbols															
H High Pressure	 Trough	<table border="1"> <thead> <tr> <th></th> <th>Snow</th> <th>Rain</th> </tr> </thead> <tbody> <tr> <td>Showers</td> <td></td> <td></td> </tr> <tr> <td>Light</td> <td></td> <td></td> </tr> <tr> <td>Moderate</td> <td></td> <td></td> </tr> <tr> <td>Heavy</td> <td></td> <td></td> </tr> </tbody> </table>		Snow	Rain	Showers			Light			Moderate			Heavy			 Fog  Thunderstorm  Haze
	Snow	Rain																
Showers																		
Light																		
Moderate																		
Heavy																		
L Low Pressure	 Warm Front																	
§ Hurricane	 Cold Front																	
	 Stationary Front																	

Compiled by MIT
 Meteorology Staff
 and *The Tech*



Student Support Services
Extended Walk-In Hours!

May 4th – May 15th
9am-10:30am / 2pm-3:30pm

To schedule an appointment:
please call (617) 253-4861

5-104

This space donated by *The Tech*

Solution to Squash Sudoku

from page 5

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

Solution to Swimming Sudoku

from page 5

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

Solution to Tennis Techdoku

from page 5

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

Solution to Track Techdoku

from page 5

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

Solution to Training Techdoku

from page 5

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

MUSLIM WRITERS COLLECTIVE
&
MIT Muslim Student Association
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Training Techdoku

Solution, page 2

72x			4x
3		8x	
3+			6x
	3-		

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–4. Follow the mathematical operations for each box.

Squash Sudoku

Solution, page 2

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

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.

Swimming Sudoku

Solution, page 2

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

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.

Technical Problems 5

Technical Problems is a weekly column consisting of puzzles and math problems intended to be accessible to undergraduates of all majors. Solutions are posted two weeks later online. If you are interested in having one or more of your solutions published in the column, please send them to general@tech.mit.edu.

Problem 1

You have six charged batteries, six uncharged batteries and a radio that requires two charged batteries to work. You are allowed to try out nine pairs of batteries and each time check if the radio works. Is there a way to guarantee that you will be able to find a pair of charged batteries?

Problem 2

You have four balls, each with a positive integer mass (in grams), and a balance which reports the signed

difference between the weight of the contents in its left pan and in its right pan. You are allowed to use the balance four times. The balance might malfunction and give you an answer that is off by 1 gram; however, this can occur at most once. Can you always figure out the masses of all four balls?

Problem 3

David has colored the squares of a 2015-by-2015 square grid red and blue. A path is a sequence of squares such that consecutive squares in the path share an edge and no other pairs of squares in the path share an edge. Prove that if the red squares form a single path and the blue squares form a single path, then one of these two paths must begin or end in the center of the 2015-by-2015 grid.

Compiled and edited by Matthew Brennan.

Tennis Techdoku

Solution, page 2

60x			36x		30x
6+		2-	2		
	2-		1-		3÷
3		6÷		30x	
60x			5x		8x
6		3		2	

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.

Track Techdoku

Solution, page 2

180×			12×		2
	1		60×		24×
60×			4×		
12×				8+	
2−	2÷	30×			
		18×			5

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.

[1518] Typical Morning Routine

Hang on, I've heard this problem. We need to pour water into the duct until the phone floats up and ... wait, phones sink in water. Mercury. We need a vat of mercury to pour down the vent. That will definitely make this situation better and not worse.



[1516] Win by Induction

This would be bad enough, but every 30th or 40th pokéball has TWO of them inside about measuring "centrifugal motion" on "a rooftop under the sky";

I LOVE NEW YORK by Richard Silvestri

Solution, page 17

ACROSS

- 1 Prompt on stage
- 4 Confusing pattern
- 8 Evening star
- 14 Recordings making a comeback
- 15 Very dry
- 16 Exceedingly
- 17 It means "and the rest"
- 18 Setting
- 19 Most recent
- 20 Trevi coin?
- 23 Twice-daily riser
- 24 Like Gen. Powell
- 25 In-flight info
- 28 Thickset
- 31 NHL team
- 32 Real estate abbr.
- 33 Polished off
- 35 Start to wilt
- 36 Barker nodding off?
- 40 Shoulder shielder
- 41 Strong refusal
- 42 Japanese beef center
- 43 What clippers are called
- 44 Buffoonery
- 49 Solemn promise
- 50 What surrounds Cyprus
- 51 Poetic adverb
- 52 Really angry rabbit?
- 58 Lack of vigor
- 60 King Cole request
- 61 Say in a postscript
- 62 Trice
- 63 Commando weapons

64 Toon bartender

65 Requite
66 Emitted, with "forth"
67 Muck up

DOWN

1 What some chins have
2 In the mood
3 Portugal's pre-euro money
4 Rigging support
5 Magic Flute piece
6 Entrée often baked
7 Shangri-la
8 Superficial appearance
9 Happening
10 In stitches
11 Victimized
12 Introduction to sociology
13 Turn bad
21 Intel chip rival
22 Tuning-fork twosome
26 Aeneid setting
27 Band box
29 Part of a hull
30 Jabber
31 Train of thought
32 Winter comment
34 Karaoke liability
35 Frustration exclamation
36 Ending for slip or rough
37 Basis of Rent
38 Wool-coat owner
39 Org. in Ludlum novels
40 Runner with a binding

DOWN

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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		

43 Greek sorcery goddess
45 Frat letter
46 Titularly
47 Vulture cousin
48 Zack who directed Man of Steel
50 Undercover operation
53 Foretoken

54 Major work
55 Physical extent
56 Promotional activity
57 Overcome
58 Its website has a DoctorFinder
59 Sweet Potato Awareness Mo.



UPPERCUT by Steve Sullivan



Saturday Stumper by Brad Wilbur

Solution, page 17

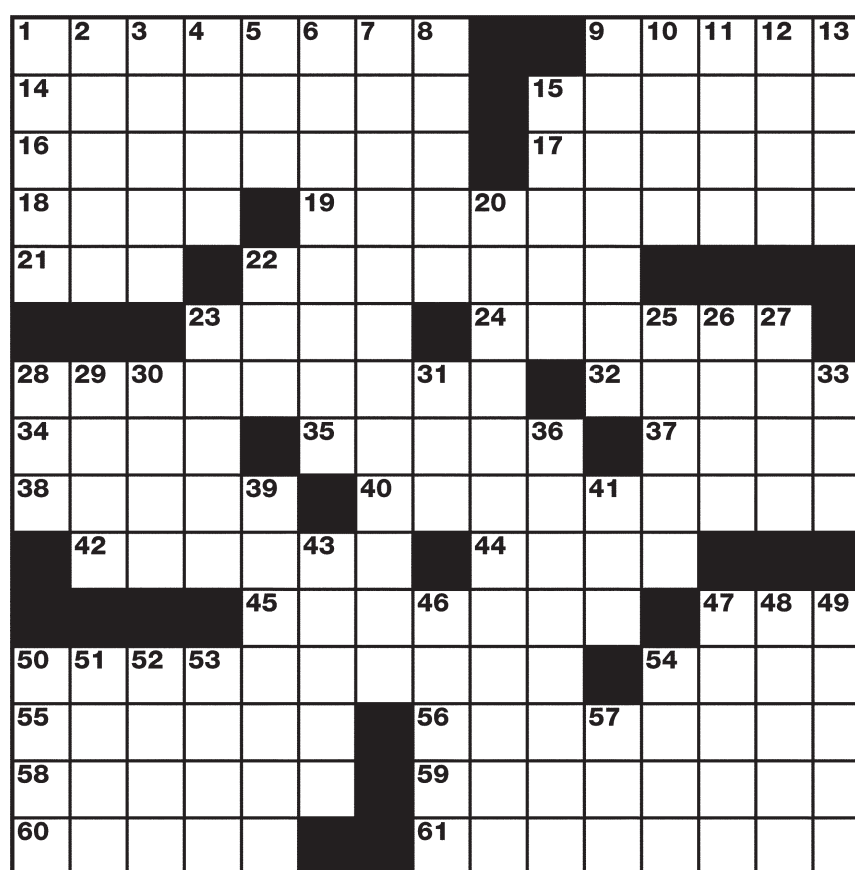
ACROSS

- 1 Church rite
- 9 Jalopies
- 14 One of the inspirations for Betty Boop
- 15 What Shaq took when he moved to the Heat
- 16 Sophocles heroine
- 17 Frost
- 18 Gives up, with "out"
- 19 National ethos
- 21 2015 Golden Globes cohort
- 22 Refuse to answer
- 23 AP's 1989 Female Athlete of the Year
- 24 Gives up
- 28 Daffodil cousin
- 32 Org. issuing 12/24 Twitter updates
- 34 Coveted shade in bottle collecting
- 35 Word from the Latin for "ghastly"
- 37 '70s De Niro vehicle
- 38 Lord Kelvin conceived a machine to predict them
- 40 They're often blonde and braided
- 42 Underground comix pioneer
- 44 Fictional South Pole explorer
- 45 Low-cholesterol steak source
- 47 "But __ eternal summer shall not fade": Shak.
- 50 Flashy set
- 54 Exultation exclamation
- 55 Beginning of many a historical era
- 56 Europe's most numerous ethnic group
- 58 Minnesota's state gemstones

- 59 Craftiness
60 Proton __ (any acid)
61 Won't countenance

DOWN

- 1 Type of wrap
- 2 Elbow attachments
- 3 Spruce
- 4 1912 portraitist of Picasso
- 5 __ wheel
- 6 Chiefly
- 7 Disney's first movie sequel
- 8 Balloon
- 9 Venerable surf-gear brand
- 10 Dreamer of Gothic fiction
- 11 South American superfood
- 12 Pets favored by Queen Victoria
- 13 Leave in place
- 14 Future Oscar winner who is a Jersey Boys character
- 20 Staff notation
- 22 Without butter, say
- 23 "No society will survive a shortage of women" speaker
- 25 Subject of many valuable drawings
- 26 Fields' "Phooey!"
- 27 Start of numerous German duchy names
- 28 On-target
- 29 Scottish-born preservationist
- 30 Current designation
- 31 Source of many valuable drawings
- 33 Slam

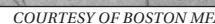


- 36 Cyrano de Bergerac et al.
39 Somewhat less crying
41 Adjective for "pop punk"
43 Satisfies
46 Storage unit for physicists
47 John Rambo lives among them
48 In the future

- 49 Lap dogs' chorus
50 Seuss book recipient, often
51 Toy Hall of Fame original inductee
52 Common Croatian name
53 "Over the Rainbow" observer
54 Coffee-shop enticement
57 Not many drops

The collection features portrait sketches and the *Codex on the Flight of Birds*

The last section of the exhibit features da Vinci's scientific drawings, which include sketches detailing the anatomy of his horse's legs. In addition to these technical drawings, a highlight of this section of the



For me, the exhibit was inspiring because it was relatable. I wasn't standing in front of an enormous painting by da Vinci that he painted as a commission. Rather, I

was looking at a series of drawings that he casually sketched. I could see the individual strokes of his pencil, or an incomplete neck in a portrait sketch. They make me want to start drawing the human face and all of its complicated curves and proportions — to find my own idea of beauty.

Showing at the Museum of Fine Arts until June 14

UA

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MOVIE REVIEW

Blake Lively stars in *The Age of Adaline*

Eternal youth and romance make a strange combination

By Tara Lee
STAFF WRITER

Blake Lively is known to our generation for her glamorous role in the TV show *Gossip Girl*. Though the show has since ended its six-season run, Lively's style and smile have found their way back to the screen in the movie *The Age of Adaline*.

Lively plays the role of Adaline Bowman, a 29-year old woman who has been stuck at the same age for almost 80 years ever since a car accident left her unable to feel the effects of time. As the rest of the world ages, Adaline's body does not. Anytime someone gets too close to her, Adaline runs away to a new city, afraid of falling in love with someone who will grow old without her. When she meets a man named Ellis (Michiel Huisman), however, Adaline tries to stop running but stumbles over the strange complications that develop from her secret.

Providing a glimpse into Adaline's past struggles to conceal her agelessness, flashback scenes depict Adaline during different decades of the 20th century as she avoids photographs that might someday provide evidence of her condition. The scenes have a vintage-quality sepia tint, with Adaline sporting period hair and makeup to match. Personally, I found the entire concept of agelessness difficult to acknowledge, especially during an awkward scene where "29-year-old" Adaline eats lunch with her elderly daughter, played by 83-year-old Ellen Burstyn. Instead of experiencing a touching moment between an ageless mother and her aging daughter, I was distracted by the blatant 50 year age difference between the two actresses. Lively does her best to embody a wise, 107-year-old trapped in a 29-year-old body, but it just comes off as Lively trying too hard to sound mature.

The film takes its time getting to the heart of the plot, filling the first half hour of the film with scenes like those to build up Adaline's world. Comments about her ageless condition seemed forced, and — unlike Adaline — they grew old after a while. Furthermore, while we all know that Blake Lively is flawless in looks and style, the endless beauty shots of her slowly sauntering along in a backless evening gown only dragged out the movie.



COURTESY OF DIYAH PERA

Blake Lively and Michiel Huisman star as Adaline Bowman and Ellis Jones in *The Age of Adaline*.

Though it took a while, I eventually managed to suspend my disbelief regarding this idea of an ageless woman. The film builds some substance during the developing romance between Adaline and Ellis, which later takes over the plot. But, of course, it naturally gets complicated by the fact that Adaline is actually 107-years-old. After Ellis's father (Harrison Ford) is introduced, the film finally finds some depth and suspense through Ford's emotional performance, but it unfortunately does not make up for the stagnant first half of the film.

The movie plays with the interesting concept of eternal youth, but it fails to present the idea convincingly. If Adaline's agelessness were portrayed more believably, my empathy for Adaline's condition would have doubled.

★★★★★

The Age of Adaline

Directed by Lee Toland Krieger

Starring Blake Lively, Michiel Huisman, Harrison Ford

PG-13

Now Playing

MOVIE REVIEW

***Dior and I:* A look into one of the world's most renowned fashion houses**

A fashion documentary that is interesting, though slightly inaccessible

By Karleigh Moore
ARTS EDITOR

Christian Dior was a renowned French fashion designer who founded one of the world's top fashion houses (named after himself). *Dior and I* follows the newly appointed creative director Raf Simons as he works under the pressures of the fashion industry and keeping up with Dior's legacy. Everyone is familiar with image of models strutting down runways, wearing the latest designer fashions; this film offers a rare and up-close look at the work preceding the exhibition. We witness the stages of production: sketching, prototypes, modeling, right up to the big reveal on the catwalk.

The film begins with a very brief overview of Dior's history. The man, Christian Dior, was reserved, preferred privacy, and small social gatherings. In the limelight, Christian Dior was "a thousand workers," an icon, and an instigator of "bloodless revolutions." When we get our first glimpse into the Dior fashion house, we see workers wearing white jackets with "Dior" embroidered above the breast pocket where one might expect to discover the worker's name — a thousand workers indeed.

As the film progresses, it seems that it can't be stated enough that Dior was a fashion revolutionary and that his fashion house is a place of high standards and innovation. The workers constantly praise him and his brand, and Simons is clearly aware that he has big shoes to fill. I must have spotted at least a dozen portraits of Christian Dior throughout the headquarters. The seamstresses joke that at night, they sense Mr. Dior's ghostly presence in the studio, presumably checking on their work. The man is clearly a legend, but for those of us who are uninitiated into the fashion world, it isn't exactly clear why. The film reveals that Dior pushed for more feminine clothing for women after WWII, but perhaps it takes more knowledge of fashion history than the average viewer possesses to appreciate what his contributions encompass.

Director Frederic Tcheng juxtaposes modern day Dior with classical Dior — fashion, workers, and even the studio space. In fact, the integration of modern and classic is a theme throughout, and I found to be the most interesting aspect of the film. Raf Simons has a vision that mixes new-age elements with traditional ideas of fashion. In particular, Simons wants to create high-fashion pieces for women that are elegant and comfortable; he doesn't "want a man to have to support her," he notes as he studies a model wearing a prototype of new high heels. The workers joke several times about Simons' insistence on including pockets on women's clothing — a principle I wish the entire fashion industry would adopt.

When I first saw the term “fashion documentary” in the description of this film, I have to admit, I wasn’t sure if I’d like it in the slightest. Overall, *Dior and I* is a fairly well-made documentary; it drew intriguing parallels between the modern and the traditional, and the commentary from the workers made me want to know more about the people behind the scenes in the fashion industry. I wish the film had provided a bit more context regarding fashion, and because it didn’t, I don’t think I appreciated the film as much as I could have. The documentary will be enjoyed most by a fashion-inclined audience, but the film can be an interesting watch for the average viewer too — if you’re able to stick with the film despite feeling out of your depth.

★★★★★

Dior and I

Directed by Frederic Tcheng

Unrated

Opens Friday, May 1 at the Kendall Square Cinema



COURTESY OF DOGWOOF LTD

Raf Simons is the creative director at Dior.



Photography by Tami Forrester and Robert Rusch

Lupe Fiasco leans back while singing with students at SpringFest 2015.

TAMI FORRESTER—THE TECH



ROBERT RUSCH—THE TECH

Salim Akram of Bad Rabbits jams out on the guitar during the opening act.



ROBERT RUSCH—THE TECH

Students cheer as Lupe Fiasco enters the stage during the 2015 Spring Fest concert.



TAMI FORRESTER—THE TECH

Artist Lupe Fiasco leads the crowd in a dance.



ROBERT RUSCH—THE TECH

Fredua Boakye of the opening act, Bad Rabbits, sings before a crowd of students.



TAMI FORRESTER—THE TECH

Lupe Fiasco, the main number at Spring Fest 2015, sings to a cheering audience.



ALEXANDER C. BOST—THE TECH
Moritz's father, played by Garrett W. Schulte '17, grieves for his son in "Left Behind."



ALEXANDER C. BOST—THE TECH
Matthew T. Iovino '17 acts in the MIT Musical Theatre Guild's production of Spring Awakening. Set in a German town in the late 19th century, the production explores a variety of mature themes born of the characters' nascent sexual curiosity. Shows continue today, tomorrow, and Saturday at 8 p.m. in Little Kresge.



ALEXANDER C. BOST—THE TECH
Wendla (Talia E. Weiss '17) and Melchior (Matthew T. Iovino '17) share a moment in a hayloft during "The Guilty Ones."



ALEXANDER C. BOST—THE TECH
Talia Weiss '17 as Wendla in "Mama Who Bore Me."

MTG Presents

SPRING AWAKENING

Photography by Alexander C. Bost

A large group of actors in period clothing are on a stage. Some are standing, some are kneeling, and some are in a state of distress. The stage is lit with blue and yellow light, and there are white pillars in the background.

ALEXANDER C. BOST—THE TECH

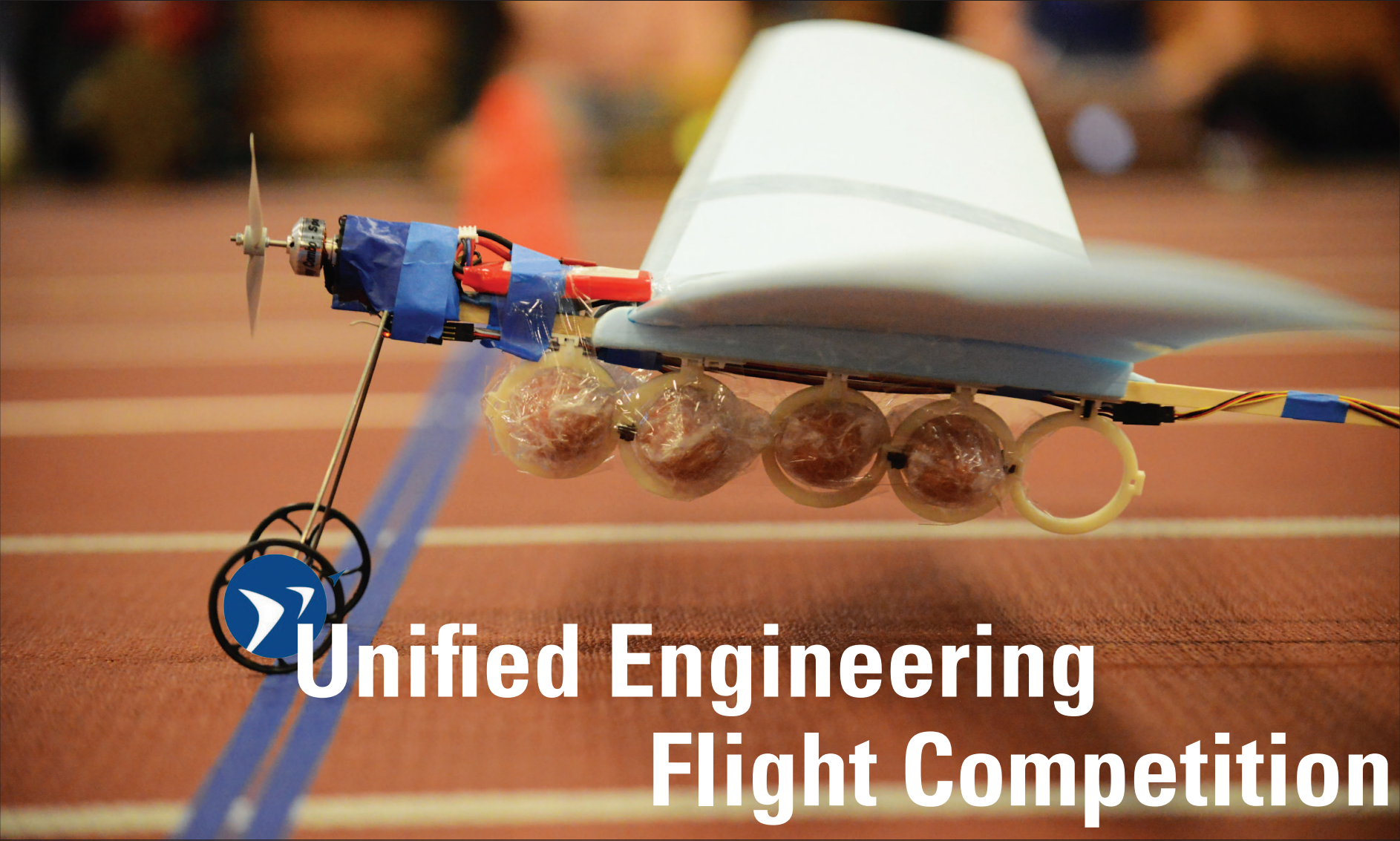
Matthew T. Iovino '17 as Melchior in "Totally Fucked."



Team “Give Me Some Shouga”’s aircraft leaves the starting line for its first attempt at the payload mission.



Team “COME TO PRIMAL” (from left to right: Daniel Dalton ‘17, Jake P. Ligouri ‘17, Filip Twarowski ‘17, and Sean D. Kropp ‘17) work with Prof. Mark Drela and one of the pilots to fix their plane prior to the speed mission.



Unified Engineering Flight Competition

Team “Egg On”’s plane sits at the starting line of the runway in preparation for the payload mission. For this mission, each plane was given a separate score based on how many hardboiled eggs were intact after a 5-lap flight around the indoor Johnson Track.



Members of the team “ProCADinators” (Andrew E. Kurtz ‘17, left, and Edward J. Lopez ‘17) work to repair their plane for the payload mission after a crash led to a break in the fuselage.



Members of the team “Average Joes” (from left to right: Matthew R. Ryback ‘17, Eric A. Riehl ‘17, Bjarni Kristinnsson ‘17, and Bradley J. Walcher ‘17) look on as their plane completes the payload mission with eight hardboiled eggs.

SAAM SAYS

On your side

By Anonymous

“SAAM Says” is a collection of narratives by sexual assault survivors and victim advocates being published during MIT Sexual Assault Awareness Month. This is the last of four pieces in the series.

My freshman year, I awoke in the middle of the night to the sound of someone moving about in my room. Leaning up slightly in bed, I saw that my roommate’s bed was empty and the door was ajar. I said his name wearily to verify that it was him. It wasn’t. A dark figure slipped out so silently I questioned whether I was actually awake. Adrenaline kicked in like a turbo-lagged engine, adding to the nightmarish unreality. I told no one what had happened. Probably just a drunk person in the wrong room, right? But he had moved so stealthily. I began locking my door at night.

That didn’t stop him. One night, my roommate came back late and left our door unlocked for a few minutes to take a shower. My stalker saw his opportunity and crept in while I was vulnerable. When I woke up he was standing over me, hand outstretched. This time my survival

instincts kicked in. “Get the FUCK out of here!” I yelled. He fled, and I pursued him, filled with terror but more afraid to stay put. I intercepted him, confronted him, kept yelling. “You didn’t have my permission to be in there!” I said. “I left that door LOCKED!”

I’ll never forget how I felt in the days following what happened, nor do I wish to forget. I was confused, angry, distracted, and depressed, but most of all I was scared. I fled the company of my suite-mates; I was irrationally terrified that they knew what had happened and blamed me for it. I kept my door locked all the time but didn’t feel safe anywhere. As crazy as it sounds, I blamed myself, constantly thinking of what I might have done to “lead him on,” whatever that means in this context.

For those of you that have felt this way, or feel this way now, I can tell you with conviction that it gets better. For me, it started getting better when I opened up to people. Understandably, not all of my friends were well equipped for my disclosure, and some of the questions they asked me stung. But the friends who really listened were invaluable to my recovery. I also called Violence Prevention and Response’s (VPR) hotline

and connected with Kate McCarthy, who is wonderful. Revived by their compassion, I found what I needed more than anything: someone to tell me that they were on my side.

Now I am a peer educator, trained by the very people who helped me get back on my feet — namely, MIT’s VPR and Students Advocating for Education on Respectful Relationships (SAFER^2). Through my involvement with SAFER^2, I’ve joined a movement of students from all different backgrounds trying to solve some of the biggest problems our generation faces, including sexual assault and gender-based violence. This started as and continues to be a grassroots movement, with origins in conversations held in dorm rooms and over dinner. Now we enjoy the support of Chancellor Barnhart’s office, and are able to get through to more students than ever before — I always love to see an It’s On Us sticker on the computer of someone I have never met, which I take as evidence of successful outreach. But the most important work still occurs in conversations between students, when we talk about consent, being respectful to one another, and creating safer spaces in our living groups.

My mission as a member of SAFER^2 has been to address the conditions that make students feel unsafe. Through all of the work I take on, whether it’s leading a discussion on bystander intervention or organizing the One Night Stand for Student Rights, I am trying to tell those around me what I needed to hear after my stalking crisis: I am on your side. You are safe here. It gets better.

At MIT, sometimes it feels like you don’t have time to care. I get it; when I’m not tabling for It’s On Us in Lobby 10, I’m usually rushing through and dodging charitable solicitors as well. Problem sets are like a constantly recurring natural disaster that keeps us all holed up alone in our rooms, with our stores of caffeine for survival. But if we are to uphold the values of our institution — if we are to improve ourselves and thrive collaboratively, rather than settle for an environment where a lucky few prosper at the expense of many others — then we must support each other, and do more to say, “I’m on your side.” Whoever you are, you have a stake in this, and you have the power to make things better.

Note: This account has been kept anonymous to protect the author’s privacy.

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MELISSA RENÉE SCHUMACHER—THE TECH

On Friday night, students participated in the Dandelion Project, a collective artwork on Kresge lawn. Each participant wrote a wish on a card and hung it up inside a large round tent. At the center of the tent was a “dandelion” made of fiberoptic sticks. Each participant added a new stick to the dandelion. The project was hosted by the MIT 2015 Class Council, MIT STEAM, and Pneuhaus.

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Festivities lead up to Lupe Fiasco concert last Saturday night

SpringFest organizers aim to make it a weeklong event in the future

SpringFest, from Page 1

The rejected \$17,000 budget was supposed to fund a dessert night hosted by Max Brenner and other Boston restaurants, a sushi study break held in collaboration with other MIT clubs, and a BurgerFEST event with The Asgard and other restaurants featuring free appetizers before the SpringFEST concert. Under the original budget plan, the UA Events Committee would have also hosted a SpringFEST after-party and a larger SpringFESTival event on Saturday afternoon with more food trucks and free tanks tops.

On Thursday and Friday, festivities consisted of an Israeli Independence Day Carnival with live camels and Israeli music, a desert night at the Finale bakery, a Palestinian Nakba Memorial, and an improvisational comedy event featuring Roadkill Buffet and the Upright Citizen's Brigade, whose members have included such notable comedians as Amy Poehler, Aziz Ansari, and Kate McKinnon.

On Saturday afternoon, Zinnek-en's and Ben & Jerry's food trucks offered free waffles and ice cream at Kresge, and Dormcon hosted a carnival on the McCormick Lawn. The SpringFEST concert was held later that night from 8 to 11 p.m. at the Zesiger Center.

In an email to *The Tech*, UA

Events Chairs Raichelle Aniceto '16 and Divya Shanmugam '17 emphasized the attendance success of the capstone concert event with Lupe Fiasco and further encouraged the idea of SpringFEST as a week-long campus-wide celebration, rather than just a concert.

“We found success in showcasing other student groups and organizations and creating a week of events that students of different [interests] could enjoy,” Aniceto and Shanmugam wrote. “[We] hope that UA Council will provide support for next year so that we can create SpringFEST16 as an even greater set of week-long events.”

Colleges in the greater Boston area also celebrated their respective spring festival events this weekend with varying prices of admission. At Harvard, pop artist Jessie J performed at ‘Yardfest,’ where students had free entry with a valid Harvard ID. At Tufts University’s ‘Spring Fling,’ Kesha headlined the event and Tufts students were each allotted one free ticket. Kesha also performed at the University of Pennsylvania’s “Spring Fling,” although students were charged \$45 for general admission. The price for MIT’s SpringFEST concert event was \$15 for student and \$20 for the general community before Saturday and \$30 at the door for both the MIT community and the public.

Summer 1: May 19–June 26
Summer 2: June 29–August 7



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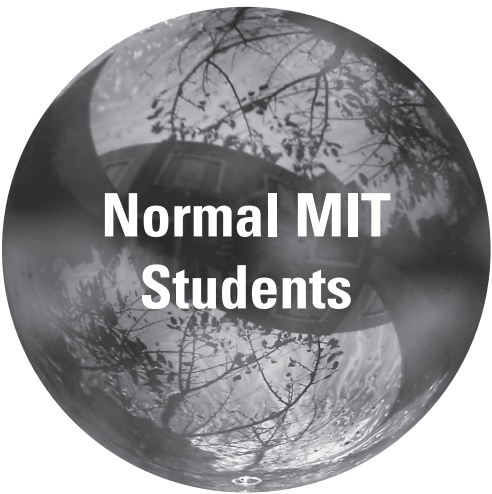
Do you enjoy African or African Diaspora music?





Stata Outdoor Amphitheater
May 2, 2015 - 2:00-5:00 PM
Come join the members of MIT’ s African Dance Group Sakata Afrique as we celebrate another year and showcase our dances. We will also be giving workshops for a few dances. Food will be provided. See you there!

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Stone memorial represents community at MIT, Reif says

Memorial designed, engineered by architecture profs

Memorial, from Page 1

community, which were revealed as the MIT community came together to mourn Collier’s loss.

“Beginning today, this memorial will be a landmark in our daily lives, a new gateway to the campus we share,” he said. “I hope this graceful display of invisible forces can become a daily reminder of those invisible human forces that create community.”

John DiFava, MIT’s police chief, compared the Collier memorial to a Roman memorial to the famous politician Cicero. In his speech, DiFava remembered his father characterizing Cicero as a great man to Romans.

“I have no doubt that in the years to follow, when we are long gone, a father will look at this beautiful structure and say ‘this memorial was built by MIT to honor Sean Collier. To MIT, he was a great man,’” he said.

The creation of the memorial was a collaboration between people from a variety of disciplines, including Professor J. Meejin Yoon, who designed the structure; Professor John Oschendorf, who oversaw its engineering; and Collier’s brother

Rob Rogers, who was the project manager for Suffolk Construction.

Yoon described the process of designing the memorial as “a deeply emotional and humbling experience.”

She praised the strength of Collier’s brother Rogers, who was “on the site daily at the crack of dawn, through blizzard after blizzard, devoted and resolved to build block by block the memorial for today’s dedication,” adding that “Rob [Rogers] always had a quiet strength, a kind spirit, a contagious smile.”

The audience rose in standing ovation as Yoon concluded that “the memorial had not truly been built with big granite blocks but had in fact been built with big hearts, and all love.”

Her last remark alluded to Rogers’ eulogy for Collier: “Live long like he would. Big heart, big

smiles, big service, all love.” These words have been inscribed into the memorial.

With five radial walls curving around an empty ovoid space, the memorial is inspired by the gesture of an open hand, symbolizing Collier’s willingness to help others. The empty space serves as a place of reflection and a physical reminder of his loss.

Amid the stone memorial, honey locust trees were planted to mark the passage of time, while underneath it point lights were set into the pavement to permanently map the constellation of stars on the night of Collier’s death, April 18, 2013.

The design of the memorial’s arches combined old-fashioned masonry techniques with cutting-edge digital fabrication and structural computation techniques, creating what Yoon called a structure of “unprecedented form.”

“MIT is known for science and technology, discovering and innovation, boldness and bearing,” Reif said. “Today through this memorial we demonstrate all those strengths, and we remind ourselves of our capacity for reverence and beauty too.”

“Beginning today, this memorial will be a new gateway to this campus we share.”



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EdX CEO promises universal usability

EdX officials say technology is ahead of policy

Settlement, from Page 1

with disabilities from full and equal enjoyment of the services they provide.

Notably, edX was considered to be a public accommodation despite having a purely online presence. Although the Justice Department said in a press release that it has “long considered Title III ... to apply to online services,” edX general counsel Tena Herlihy noted a gap between existing accessibility laws and their application to emerging online technologies.

“The laws regarding website accessibility should be clear and uniformly applied,” Herlihy wrote in a statement. “While the law and policy catch up, we are very proud to be a leader in website accessibility for learners across the globe.”

“We are excited about where we are going,” Herlihy said.

Anant Agarwal, CEO of edX, echoed this sentiment. “Our vision — quality education for everyone, everywhere — can only be achieved when our site is accessible to all users, including people with disabilities.”

Solution to Saturday Stumper

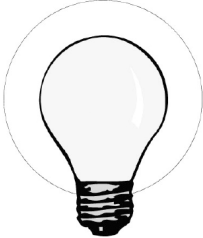
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Solution to I LOVE NEW YORK

from page 6

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Are you dying to tell someone your latest ephiphany?

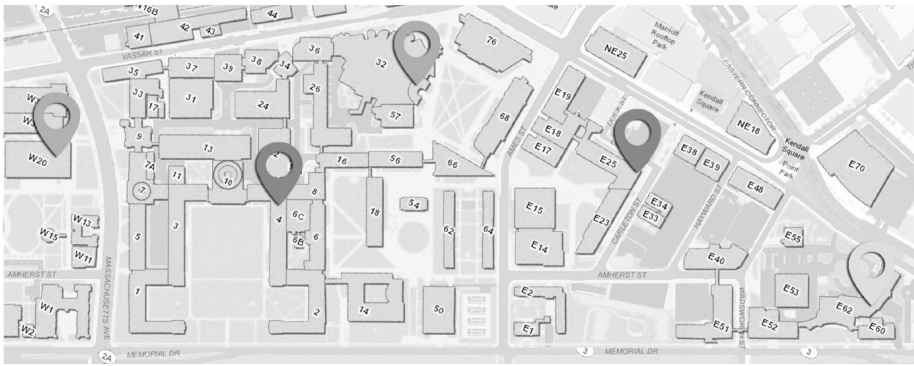
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April 22nd
7:00-8:00pm
W20-306

April 28th
12:00-1:00pm
E25-111
- May 6th**
12:00-1:00pm
E62-450

May 7th
5:00-6:00pm
32-155



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Call for Nominations

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For the **Teaching Prize for Graduate Education**, preference will be given to nominees who teach mainstream subjects in which fundamental principles of the relevant fields are presented. Such courses typically provide the basis for advanced education and research and prepare students for professional careers.

Nomination letters from either faculty or students are welcome. Letters should indicate the name of the nominee, course taught, and reasons for nomination. Although one strong letter is sufficient, additional letters will strengthen the nomination.

Please submit nominations at <http://science.mit.edu/teaching-prize-nomination-form>.
Nominations are due May 29, 2015.

For additional information please contact:
Annie Lee, School of Science, 6-131, ayl@mit.edu, 617-253-5951



A Jurassic Park-themed Lobby 7 hack appeared Sunday morning featuring three velociraptors, a banner proclaiming “When Dinos Ruled MIT”, and a giant pterodactyl with a 15-foot wingspan suspended from the dome.

ROBERT RUSCH—THE TECH



Karen D. Hao '15 sings with MIT Resonance during Saturday night's concert.

CHAARUSHENA DEB—THE TECH

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Innovation delayed by cuts to funding

MIT report warns that R&D forms shrinking part of federal budget

Funding, from Page 1 and 2013. Unreliable funding disrupts long-term projects that the report suggests are necessary to promote innovation.

In the wake of this declining public investment in research, the report states that other countries have gained the upper hand in contributing to major scientific accomplishments. The European Space Agency successfully landed a spacecraft on a comet after a 10-year effort, and CERN (the European Organization for Nuclear Research) confirmed the existence of the Higgs boson subatomic particle.

The report does not discuss any specific costs for funding these areas of research, nor does it lobby for any specific pieces of legislation. According to Kastner, more concrete cost estimates will be outlined in a second-phase report by the committee that will be targeted at philanthropists.

One of the areas of research outlined in the report is Alzheimer's

goal of the report was to stimulate interest among political leaders about promising areas of research that require more federal funding.

“It's important to remind Congress and the public that the health of the country depends on doing research. Congress could easily find money for research because it's a very small fraction of the federal budget,” Kastner said.

The portion of the federal budget

spent on research and development has shrunk from 9.1 percent in 1968 to 3.6 percent in the 2015 budget. In comparison, Europe and Asia have been steadily increasing their investments, with China expected to become the world's largest single investor in research and development by the early 2020s, according to projections from the Battelle Memorial Institute and R&D magazine.

MIT's report was unveiled in Washington to members of the press on Monday in an event organized by the American Association for the Advancement of Science, MIT, and other academic associations. The rollout was followed by briefings for congressional and federal administration staff.

The report argues that with the declining role of basic research in industry, federally funded research at the university level is the primary avenue for scientific innovation. This leaves research efforts vulnerable to abrupt changes in funding, like the sequestration cuts of 2011

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William R. Ruschel '18 soars above the jumping pit during the New England Women's and Men's Athletic Conference championship on Saturday. MIT won the championship for the 15th straight year.

ALEXANDER C. BOST—THE TECH

*Baseball player Parker
Tew is recognized again*

By Phil Hess
DAPER STAFF

Parker A. Tew '15 has been selected as the New England Women's and Men's Athletic Conference (NEWMAC) Baseball Player of the Week, the league announced on Monday. It is the second time this season that Tew has won the award, and it is the fourth time overall an Engineer has been selected this season.

Tew hit .583 in the three games last week that counted towards the award (NEWMAC Tournament games were not considered), driving in six runs and scoring four times. He started his week with three hits against Clark, including a home run, driving in four in the final regular season NEWMAC game of the season. The senior shortstop then had a pair of doubles among his three hits against Western New England, including a two-run double that started what proved to be the game-winning rally.

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Runners open up about turning the last corner, finding snow-free training routes

Running 26.2 miles at a stretch can be challenging. Doing it over a course that literally contains a Heartbreak Hill in cold and rainy weather might seem impossible. But graduate students Roy Wedge, Georgia Lagoudas, and Daniel Rothenberg did just that last week. Following their successful completion of the Boston Marathon, *The Tech* caught up with them as they shared how they went from desperately seeking a running trail during Boston's coldest winter to crossing the finish line at Copley Square on Marathon Monday.

“Even when all the other roads and sidewalks were covered with snow, they did a very good job of keeping the carriage road clear,” said Rothenberg, who is a Course 20 Ph.D. candidate doing cancer research at the Koch Institute. “It seemed like everybody was training out there. Seeing all those runners picked me up as it gave me a sense of community.”

"The medical volunteers had tons of mylar blankets to hand out to the runners," said Wedge, a graduate student at CSAIL who was named NEWMAC champion and NEWMAC runner of the year in his senior year at MIT.

Lagoudas, a Course 20 Ph.D. candidate who works at the Broad Institute, had her first experience of the Boston Marathon

"The whole city comes out to cheer, and it's amazing," she said. "It was the marathon [all] the runners come to. So after going out there and cheering and just seeing so many people, I realized I just had to do it."

Nothing exemplified the enthusiasm of those cheering on more than the Wellesley students.

Wedge remembers when he turned the last corner.

Lagoudas said that running the final stretch on Beacon Street "feels like you are on top of the world."

"You realize that you've finished most of it and you know for certain nothing can stop you reaching finish line," she said. "You kind of feel like you are riding on the energy of the spectators at that stage."



Daniel Rothenberg G runs the Boston Marathon.



Benjamin C. Freed '17 competes in the steeple chase during the New England Women's and Men's Athletic Conference championship on Saturday. MIT won the championship for the 15th straight year.

3 p.m., Briggs Field

[illegible]