

MIT's Oldest and
Largest Newspaper

tech.mit.edu



WEATHER, p. 2

FRI: 56°F | 45°F
Overcast
 SAT: 63°F | 50°F
Partly cloudy
 SUN: 57°F | 47°F
Partly cloudy

Volume 134, Number 49

Friday, October 24, 2014

Portions of SidPac to close for repairs

*Graduate dorm will not accept
new residents next school year*

By Tushar Kamath
NEWS EDITOR

Sidney-Pacific, MIT's largest singles graduate dormitory, will undergo renovations starting this coming summer to replace the main heating, ventilation, and air conditioning system. As a result, sections of the building will be temporarily closed for renewal, displacing 370 residents from their rooms to other ends of the dormitory, off-campus, or elsewhere in the graduate dormitory system.

As a result, no new graduate students will be permitted to move into the dormitory until the renovations are complete.

The announcement came in an email to Sidney-Pacific (SidPac) residents this past Tuesday. The next day, Dean of Residential Life and Dining Henry Humphreys and Director of Renovations and Renewal Michael Kearns called a town hall meet-

ing at SidPac where students voiced their frustration.

SidPac residents attending the meeting asked questions ranging from whether seniority-housing points would translate to other dorms, to issues of how the renovations will affect utilities.

In the town hall meeting and subsequent interview with *The Tech*, Humphreys indicated that a few options were available for those displaced graduate students. These residents may choose to stay in SidPac, but must move into a two-bedroom quad suite on another side of the dormitory, necessitating students sharing the same bedroom.

To some at the town hall, this was the most unsavory option. "When you come back and suddenly you have another person in your room and that is not going to work... and it's your room,

Sidney-Pacific, Page 12

AeroAstro celebrates centennial



Buzz Aldrin responds to a question as a part of a panel of Apollo astronauts during the Department of Aeronautics and Astronautics Centennial Symposium. The panel was held at Kresge Auditorium on Oct. 22.

CHAARUSHENA DEB—THE TECH

Judi Segall starts as ombudsperson

Brings years of conflict resolution expertise to the position

By Amy Wang

On Sept. 2, Judi Segall was welcomed in as MIT's newest ombudsperson. In her new role, she will serve as a confidential resource to the MIT community by helping visitors attempt to constructively and peacefully resolve conflicts.

Segall, with her years of experience in conflict management, hopes to assist members of the MIT community manage their problems in a way that supports what she described as MIT's culture of innovation and collaboration.

The Ombuds Office attempts to resolve conflicts without going through an adversarial system. According to Segall, by avoiding formal complaints, the Ombuds Office helps individuals work through problems so that they are not at legal odds with another person.

When distraught visitors come to

Segall, she said she often says, "In an interpersonal conflict, you own the problem, but you also own the solution." She tries to help her visitors see the variety of possible solutions and consider both the short-term and long-term consequences. Based on her past experiences, Segall claims that when her visitors realize they are in control, they give themselves the opportunities to make decisions from a more logical perspective.

Segall served as director of the Stony Brook Ombuds Office for 17 years. She also taught graduate student seminars on conflict management and leadership development.

She was president of the University and College Ombuds Association as well as the Ombuds Association before they merged to become the International Ombudsman Association (IOA). She served as the inaugural president of the IOA in 2006.

Segall said her strongest impres-

sion of MIT is the community's dedication to change the world. In her five weeks here, she said she has met people throughout the Institute in order to inform herself about the community's culture and operations. She says she has been "continuously impressed by the openness of continued learning on campus," and greatly appreciates "the harmonization of the arts within the MIT culture."

While Segall is not teaching for the 2014-2015 academic year, it remains a possibility in the near future.

MIT's Ombuds Office is located in 10-213. The Ombuds Office sees a large number of students over the year, including a significant number of graduate students, as well as postdoctoral scholars and faculty members.

According to the MIT Ombuds, they are able to direct individuals to more resources when necessary. The

Segall, Page 11



More photos on
PAGE 7

Sarkis named dean of School of Architecture and Planning

Hashim Sarkis, practicing architect and current Aga Khan Professor of Landscape Architecture and Urbanism in Muslim Societies at Harvard University's Graduate School of Design (GSD), was named the tenth dean of MIT's School of Architecture and Planning (SA+P). His appointment begins in January, formally succeeding Professor Adele Naude Santos.

Sarkis, a member of the Harvard faculty since 1998, has been director of the Aga Khan Program for Islamic Architecture at the GSD (housed jointly at Harvard and MIT), for the

last 12 years. The program is one of the best for the study of architecture, urban issues, and visual culture in Islamic societies. Sarkis expressed that he is looking forward to working within MIT's framework of how to approach architecture.

"Educators of architects and planners worldwide are emulating the MIT research-based model, and it is a true honor to build on Adele's legacy and to guide this model forward," Sarkis told the MIT News Office. "MIT at large provides an ideal setting for such an undertaking, especially as it invests in the future

of education and in initiatives like energy, environment, and innovation that are at the core of SA+P. It is especially invigorating to see the scientists and engineers reach out to the designers and to see how much they value their contribution to the One Community."

Sarkis comes to the Institute with an extensive portfolio of award-winning architectural projects from around the world with his firm, Hashim Sarkis Studios, and a PhD in architecture from Harvard in 1995.

—Stan Gill

IN SHORT

Johnson Ice Rink is now open for the winter! The most recent skating schedule can always be found at <http://web.mit.edu/athletics/www/skateschedule.pdf>. Enjoy the first evening session of the season tonight from 7–11 p.m. Skate rentals are available during times the rink is open for \$5 for MIT students and \$7 for others. You must bring your own equipment to participate in recreational hockey.

Concert Choir's Community Sing is today at 5 p.m. in Lobby 10. Anyone is welcome to come sing along

— music and snacks are provided!

MIT Wind Ensemble and Festival Jazz Ensemble's annual Family Weekend Concert is tonight at 8 p.m. in Kresge Auditorium featuring President L. Rafael Reif narrating Copland's *Lincoln Portrait*. The event is free and open to the public.

Voting for the Underclassmen Giving Campaign starts this Monday in Lobby 10. Stop by in person or online to donate and vote for one of the projects to win an expedition grant!

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

INSTITUTE DOUBLE TAKE

Out on the Charles during the magic hour.
PHOTO, p. 13

DON'T THINK TOO MUCH

Or you might psych yourself out of eating. **FUN, p. 6**

WELCOME TO FAMILY WEEKEND

Where you can see "world-class faculty" in action. **FUN, p. 5**

UNDOCUMENTED AT THE INSTITUTE

Two students speak about their experiences getting to and attending MIT.
CAMPUS LIFE, p. 10



A WIN FOR MEN'S SOCCER

Engineers beat Framingham State 2–1
SPORTS, p. 15

SECTIONS

World & Nation2
Opinion4
Fun Pages5
Campus Life10
Sports15

Taliban gain strength in Afghanistan’s north

By Azam Ahmed
THE NEW YORK TIMES

CHAHAR DARA, Afghanistan — The last time that Afghans in the northern province of Kunduz felt so threatened by the Taliban was in 2009, just before President Barack Obama deployed thousands of troops to push the insurgents back from the outskirts of the province’s capital. Now the Taliban are back, but the cavalry will not be coming. With just two months left before the formal end of the 13-year international combat mission, Western officials insist that the Afghan security forces have managed to contain the Taliban’s offensives on their own. But the insurgents’ alarming gains in Kunduz in recent weeks present a different picture. In an area that has not been a primary front against the Taliban for years, there are now two districts almost entirely under Taliban rule, local officials say. The Taliban are administering legal cases and schools, and even allowing international aid operations to work there, the officials say. The new Afghan government

under President Ashraf Ghani Ahmadzai has acknowledged the depth of the crisis, telling local officials in a videoconference that Kunduz’s situation was a priority on a par with major battle fronts in the Taliban-heavy south and east this year. Already, troop reinforcements have been sent from Mazar-i-Sharif, the main city in the north. Taken together with new Defense Ministry statistics showing a huge rise in combat deaths for the Afghan army and police forces, the losses in Kunduz point out a deeper-than-expected concern about the ability of the security forces to hold territory without Western troops directly entering the fight. Local residents and officials in three of the province’s most challenged areas, Chahar Dara, Dasht-e Archi and Imam Sahib districts, describe a military and police force unable to mount effective operations. Rather than pushing back on the ground, Afghan forces have opted to shell areas near the capital under Taliban control. That has led to the deaths of more than a dozen civilians this summer, villagers claim.

“The Taliban could take the city any time they want to,” said Hajji Aman, a businessman in Kunduz City, who has been highly critical of the government’s response to the crisis. “They just don’t want to bother with holding and managing it right now.” Kunduz province is a vital but chaotic crossroads in northern Afghanistan, and even when the Taliban have posed a lesser threat, criminal networks have kept it tumultuous. But security there deteriorated significantly in 2008 and 2009, amid a heavy Taliban push as coalition forces concentrated their efforts in the south and east. In a regional troop surge that began in 2010, the United States deployed about 3,500 troops in northeastern Afghanistan and kept up operations there through 2011. But the gains made during that period seem to have all but evaporated in the past few months. “The fighting in Kunduz did not start this year,” said the acting provincial governor of Kunduz, Ghulam Sakhi Baghlani. “But in past years, we had international forces helping the Afghan security forces.”

Canada worries as extremism lures more abroad

By Marc Santora
THE NEW YORK TIMES

In January 2013, strewn amid the rubble and debris left after a terrorist attack on a gas plant in the Algerian desert were the remains of two men who had traveled far from home to wage what they viewed as a holy war. The men had been friends in high school in Ontario, Canada, before they set off on a journey in 2011 that would take them to Morocco, Mauritania, a terrorist training camp in Mali and, ultimately, to their deaths in the sands of Algeria. The forces that drove the men, Xris Katsiroubas and Ali Medlej, from their sedate life in Canada have only gathered momentum since then, both in Canada and in other Western nations. In recent months, more than 100 Canadians have sought out conflicts in foreign lands from Somalia to Syria, according to a government report. The threat was brought home for

Canadians first on Monday, when a man who was inspired by Islamic extremists based overseas used his car to run down and kill a soldier in Quebec. The man was later killed by the police. On Wednesday, Ottawa, the country’s capital, was locked down after a gunman shot and killed a soldier at a war memorial and then stormed the nation’s Parliament building. The gunman, who himself was fatally shot, was identified by the authorities as a young man who had recently converted to Islam. Prime Minister Stephen Harper, who spoke to the nation from an undisclosed location Wednesday evening, said that while the motive behind the attack that day was under investigation, the act had clearly been meant to terrorize. He said the attack was a “grim reminder” of the threats that the country faces. Harper has been a staunch defender of the effort to destroy the extremist group called the Islamic State. On Oct. 8, Canadian lawmakers

voted to authorize the nation’s military to participate in the U.S.-led airstrikes in Iraq. “If left unchecked, this terrorist organization will grow and grow quickly,” Harper said when the measure passed. “They have already voiced their local and international terrorist intentions and identified Canada as a potential target.” Harper was referring to comments made by Abu Muhammad al-Adnani, an Islamic State spokesman, who sought to rally fighters to the group’s cause and urged individual Muslims to attack civilians. Adnani exhorted them to “kill a disbelieving American or European — especially the spiteful and filthy French — or an Australian, or a Canadian, or any other disbeliever from the disbelievers waging war, including the citizens of the countries that entered into a coalition against the Islamic State.” The threat of a “lone wolf” attack is a top concern for Western security agencies, including Canada’s

South Korea tears down Christmas tower on border

By Choe Sang-hun
THE NEW YORK TIMES

SEOUL, South Korea — South Korean marines have dismantled a 43-year-old Christmas tower on the border with North Korea that the North had threatened to attack with artillery, officials here said Wednesday. Built on a front-line hilltop northwest of Seoul in 1971, the 59-foot steel tower, tipped with a cross, used to be illuminated with cascades of light bulbs around Christmas during the Cold War years. Batteries of loudspeakers sent Christmas carols drifting across the snow-covered border into the North, where the totalitarian regime repressed religious freedom. It was part of the psychological warfare the two Koreas continued to wage along the 155-mile border even after their three-year war ended with a truce in 1953. The

sides carved their border hills with large slogans exhorting opposing troops to defect to the capitalist South “for freedom” or to the “people’s paradise” of the communist North. They also used radio broadcasts and balloons carrying propaganda leaflets. The rival Koreas discontinued most of the campaign after they agreed to stop slandering each other when they held a summit meeting in 2000. The South Korean marines stopped lighting the Christmas tower in 2004. In 2010, when the North was accused of torpedoing a South Korean warship, the military let Christian groups light the tower again. It was around this time that conservative activists in the South also began sending propaganda balloons into the North. The tower was lighted one more time in 2012, when the North fired a long-range rocket two weeks before Christmas.

North Korea, which denies involvement in the sinking of the South Korean ship, has lashed out at the revival of the Christmas tower and leaflet balloons, calling them a breach of the 2000 summit agreement and threatening to fire on them. On Oct. 10, the two armies exchanged machine-gun fire after the North tried to shoot down leaflet balloons that South Korean activists had released across the border. South Korean police officers and villagers near the border have since tried to stop the activists from launching balloons. The Christmas tower was torn down last week, military officials confirmed Wednesday. They denied that its removal was related to South Korea’s efforts to entice North Korea into high-level dialogue despite the recent shooting episode. They said the old tower had become so rusty that it was a safety hazard.

9 in Connecticut being watched for Ebola symptoms

Nine people in Connecticut who may have been exposed to the Ebola virus have been told to stay at home and are being monitored by local health authorities for symptoms, a spokesman for the State Public Health Department said Wednesday. The people in question were not sick, the spokesman, William Gerrish, said, but were being watched under an order signed by Gov. Dannel P. Malloy on Oct. 7, declaring a public health emergency in the state. They were not publicly identified because of privacy concerns, but officials said three were Yale University students and the others were from one family. At least some had traveled to West Africa. Malloy’s order enabled him to give the public health commissioner, Dr. Jewel Mullen, the power, “under conditions prescribed” by her, to order the isolation or quarantine of anyone she reasonably believed to have been exposed to Ebola, infected with it or at risk of transmitting it. Officials said that the quarantining of the nine people was voluntary, and that none had objected to it. On Wednesday, federal health officials said that starting next week, travelers arriving in six states from Guinea, Liberia or Sierra Leone must have their temperatures taken and stay in touch with health officials daily for 21 days, the incubation period for Ebola. Connecticut is not one of those states. “The governor has asked the department to act out of an abundance of caution, and that’s exactly what they are doing,” a spokesman for Malloy said. —Anemona Hartocollis, *The New York Times*

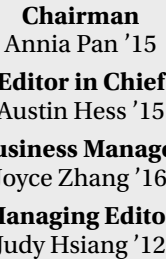
Amazon loss exceeds forecasts, sending stock down

Amazon greatly lowered expectations last summer that it would make any money this year. But it did not lower them enough. Amazon, the retailer and entertainment company, reported Thursday that it lost 95 cents a share in the third quarter, compared with a loss of 9 cents in 2013. Analysts had expected a loss of 74 cents a share, according to Yahoo Finance. Revenue, as always at the e-commerce giant, grew strongly, but a little less than expected. Sales during the quarter were \$20.58 billion. Analysts had expected \$20.84 billion. Amazon shares fell 10 percent after hours on the news, which was reported after the close of regular trading. Over the past year, as worries about Amazon have picked up, the previously highflying stock has fallen about 15 percent. The company was cautious in its outlook for the fourth quarter, saying that even in the best case, it would make less than it did last year. It also said its revenue in the quarter might grow as little as 7 percent — an amount that would be thrilling to any other big retailer but that is much less than Amazon’s traditionally robust growth. Before the earnings were released, analysts were generally enthusiastic. Cowen & Co. said it expected Amazon to lose “only” 57 cents a share. Colin Gillis of BGC Partners, usually somewhat skeptical of Amazon, issued an upbeat note that focused on the potential of the company to use its hardware for an advertising network. “We are actually mildly positive on the potential of the current investment cycle as Amazon builds an ecosystem with its Kindle readers (success), tablets (mild success), App store (mild success), Fire TV (limited traction but a good product) and phone (failure, priced too high and limited distribution),” Gillis wrote. He noted that the retailer knew where its tens of millions of customers lived, what they liked and how they consumed. Michael Pachter of Wedbush Securities was a mild dissenter, citing “a variety of customer experience enhancements” that will soak up potential profits. These enhancements include a streaming music service recently introduced by Amazon. It is free for Amazon Prime members. —David Streitfeld, *The New York Times*

North Korea to bar foreign tourists over Ebola fears

SEOUL, South Korea — North Korea has announced it will not accept any foreign tourists beginning Friday because of fear of the Ebola virus, three agencies that take tourists to the isolated country said Thursday. The news came as the country said it was stepping up inspections and quarantine measures at its airport, borders and ports to guard against the spread of the deadly virus, which has killed thousands of people in the latest outbreak. “Three days ago, they said that anybody who’s been to West Africa would have to provide a doctor’s certificate stating that they don’t have Ebola,” said Gareth Johnson of Young Pioneer Tours, a travel operator based in China. “And then today, they just said no foreign tourists at all.” Johnson said that he got the notice from his North Korean partners and that one of his tour guides who was visiting North Korea with a group of foreign tourists had also confirmed it through the authorities there. Johnson said his company had to cancel its plan to take a group of 20 tourists to the North on Monday. He said the ban on entry for foreign tourists affected all the borders with North Korea. Johnson called it a “complete blanket ban,” regardless of where a foreign tourist came from. David Thompson of Juche Travel Services in London said his company was contacting all customers who have booked North Korean tours in the coming months. “At the moment, we do not know when the country will reopen its border to tourism,” he said. Nick Bonner at Koryo Tours, another China-based company that offers tours to North Korea, confirmed the ban but said it was still unclear whether North Korea was trying to ban all tourists or only those from regions that have had an Ebola outbreak. Both Johnson and Bonner said they were not sure whether the ban would also affect foreign diplomats or businesspeople. An official at the Beijing office of Air Koryo, the North Korean state airline, said no flights to the capital, Pyongyang, had been canceled, indicating that nontourist visitors would still be allowed to enter. —Choe Sang-hun, *The New York Times*

WORLD&NATION WORLD&NATION WORLD&NATION WORLD&NATION WORLD



News Editors: Tushar Kamath '16, Leon Lin '16, Kath Xu '16; **Associate News Editors:** Alexandra Delmore '17, William Navarre '17; **Staff:** Sara Hess G, Isabella Wei '14, Adisa Kruayatidee '15, Janelle Mansfield '15, Xin Chen '17, Patricia Z. Dominguez '17, Omar Ibarra '17, Katherine Nazemi '17, Rohan Banerjee '18, Drew Bent '18, Ray Wang '18; **Meteorologists:** Vince Agard '11, Roman Kowch '12, Shaena Berlin '13, Casey Hilgenbrink '15, Ray Hua Wu '16.

Editors: Esme Rhine '15, Will Conway '16, Anthony Yu '16; **Associate Editors:** Justine Cheng '17, Colleen Madlinger '17, Lenny Martinez '17; **Staff:** Tiffany A. Chen '17, Lutong Tracy Cheng '17, Xin He '17, Krithika Swaminathan '17, Karia Dibert '18, Vivian Hu '18, Sophie Mori '18.

Editor: Jacob London '15; **Staff:** Feras Saad '15,
Aaron Hammond '17.

Editors: Austin Osborne '15, Ali C. Soylemezoglu '17; **Associate Editor:** Katie Bodner '15; **Staff:** Michael Gerhardt '12, Zach Hynes '12, Nicholas Myers '12, Carlos Greaves '13, Nidharshan Anandasivam '14, Sarah Weir '14, Shri Ganeshram '15, Felicia Hsu '15, Nick Lopez '15, Deepak Narayanan '15.

Editors: Denis Bozic '15, Chennah Heroor '15;
Associate Editor: Karleigh Moore '16; **Staff:** Juan
Alvarez G, Daniel Kolodrubetz G, Ian Matts G,
Edwina Portocarrero G, Kristen Sunter G, Katie
Villa G, Bogdan Fedeles PhD '09, Roberto
Perez-Franco PhD '10, Rachel Katz '17, Priya T.
Kikani '17, Tara Lee '17, Attila Forruchi.

Editors: Tami Forrester '15, Christopher A. Maynor '15; **Associate Editors:** Ho Yin Au '13, Alexander C. Bost; **Staff:** Eric Hao G, David Da He G, Melissa Renée Schumacher G, Scott Johnston '03, William Yee '10, Akimitsu Hogge '13, Sherry Ren '15, Emily Kellison-Linn '16, Sarah Liu '16, Rachel E. Aviles '17, Landon Carter '17, Skanda Koppala '17, Helen Nie '17, Henry Tareque '17, Tristan Honscheid '18, Daniel Mirny '18, Megan Prakash '18, Andrew Swayze.

Editor: Kali Xu '15; **Staff:** Stephanie Lam G, Emily A. Moberg G, Davie Rolnick G, Victoria Young G; **Cartoonists:** Letitia W. Li G, Paelle Powell '15, Stephanie Su '15, Steve Sullivan '15, Erika S. Trent '15, Timothy Yang '15, Dohyun Lee '16.

Staff: Christina Curlette '16, Alyssa Napier '16, Madeline J. O'Grady '16.

Advertising Manager: Nayeon Kim '16; **Staff:** Joseph Maurer '12, Arturo Gonzalez '14, Michelle Chao '17, Casey Crownhart '17, Fiona Lam '17.

Director: Greg Steinbrecher G; **Staff:** Alex Chernyakhovsky '14.

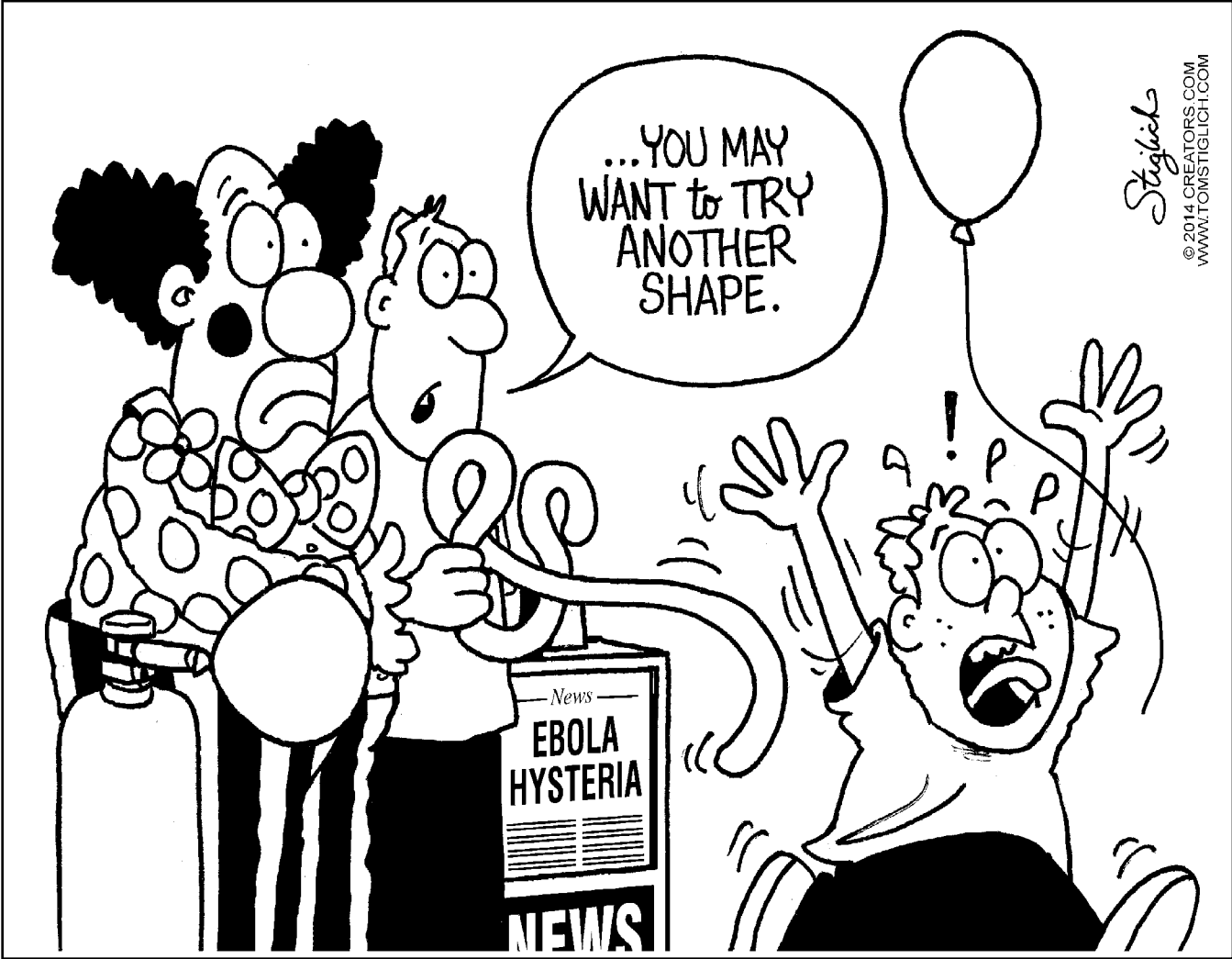
Editor: Stephen Suen '15; **Staff:** Aaron L. Scheinberg G, Aakanksha Sarda '14, Lourdes D. Bobbio '15, Clara Liu '15, Vivian Liu '15, Mario Martínez '15, Jake Barnwell '16, Sarah Coe '16, Emilio Pace '16.

Contributing Editor: Stan Gill '14; **Senior Editors:** Anne Cai '14, Deborah Chen '14, Sarah Ritter '14, Jessica L. Wass '14, Bruno B.F. Faviero '15.

Paul E. Schindler, Jr. '74, V. Michael Bove '83,
Barry S. Surman '84, Deborah A. Levinson '91, Karen
Jonathan E.D. Richmond PhD '91, Karen
Kaplan '93, Saul Blumenthal '98, Frank,
Dabek '00, Satwiksi Seshasai '01, Daniel Ryan
Bersak '02, Eric J. Cholaneril '02, Nathan
Collins SM '03, Tiffany Dohzen '06, Beckett
W. Sterner '06, Marissa Vogt '06, Andrew
T. Lukmann '07, Zachary Ozer '07, Austin
Chu '08, Michael McGraw-Herdge '08, Omar
Stephens '08, Marie Y. Thibault '08, Ricardo
Ramirez '09, Nick Semenkovich '09, Angeline
Wang '09, Quentin Smith '10, Jeff Guo '11, Ethan
A. Solomon '12, Connor Kirschbaum '11, Jessica
J. Pourian '13, Aislyn Schalck '13, B. D. Colen.

Judy Hsiang '12, Esme Rhine '15, Will Conway '16,
Anthony Yu '16, Karia Dibert '18, Vivian Hu '18.

The Tech (ISSN 0148-9607) is published on Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer by The Tech, Room W20-483, 84 Massachusetts Avenue, Cambridge, Mass. 02139. Subscriptions are \$50.00 per year (third class). **POSTMASTER:** Please send all address changes to our mailing address: The Tech, P.O. Box 397029, Cambridge, Mass. 02139-7029. **TELEPHONE:** Editorial: (617) 253-1541, Business: (617) 258-8324. Facsimile: (617) 258-8226. *Advertising, subscription, and typesetting rates available.* Entire contents © 2014 **The Tech**. Printed by Upper Valley Press, Inc.



Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Annia Pan, Editor in Chief Austin Hess, Managing Editor Judy Hsiang, and Opinion Editor Jacob London.

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

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

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

Once submitted, all letters become property of *The Tech*, and will not be returned. Letters, columns, and cartoons may also be posted on *The Tech's* Web site and/or printed or published in any other format or medium now known or later that becomes known. *The Tech* makes no commitment to publish all the letters received.

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

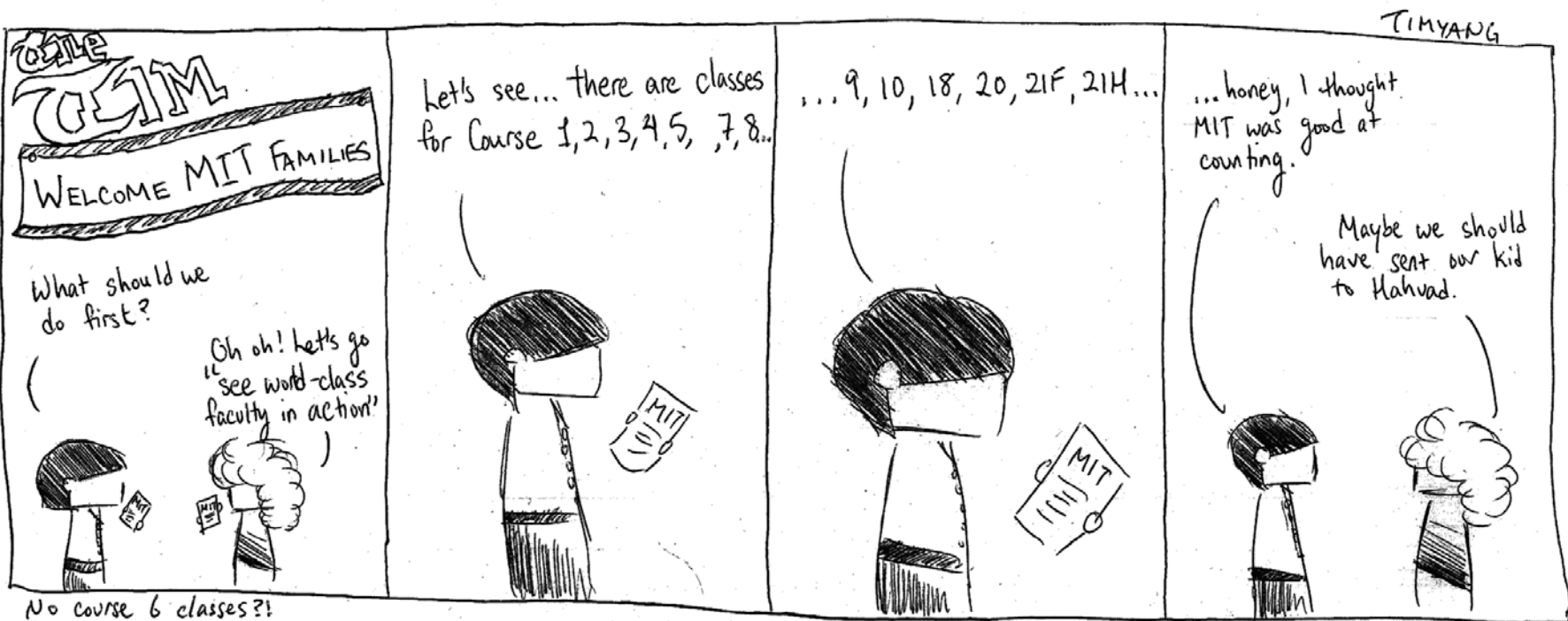
The Tech's telephone number is (617) 253-1541. Email is the easiest way to reach any member of our staff. If you are unsure whom to contact, send mail to general@tech.mit.edu, and it will be directed to the appropriate person. You can reach the editor in chief by emailing eic@tech.mit.edu. Please send press releases, requests for coverage, and information about errors that call for correction to news@tech.mit.edu. Letters to the editor should be sent to letters@tech.mit.edu. *The Tech* can be found on the World Wide Web at <http://tech.mit.edu>.

PSEUDO-WISDOM OF THE DAY

“There is no con in procrastination -
only a ‘pro.’ ”



WWW.QEDCOMICS.COM



See the Light by Fred Piscop

Solution, page 11

ACROSS

- 1 Wall St. happenings
- 5 Little bug
- 9 What some checkers check
- 14 Made haste
- 15 Clinton attorney general
- 16 Domed structure
- 17 Reunion group
- 18 Certain truant's status
- 19 Picture postcard features
- 20 Compare favorably with
- 23 Trip part
- 24 Slice of history
- 25 Japanese sliding screen
- 29 Bows out
- 32 Creator of Kermit and Ernie
- 35 Phillips Petroleum merger partner
- 37 Apt. coolers
- 38 Software version
- 39 Not a priority
- 42 Vivid crayon type
- 43 N.Y. setting in Aug.
- 44 Baffler
- 45 Psychic ability
- 46 Mr. Clean alternative
- 48 Quite a spread
- 49 Ginnie _
- 50 Center starter
- 52 Loves unrequitedly
- 59 Trite, as a joke
- 61 Ne'er-do-wells
- 62 Knock flat
- 63 Unembellished

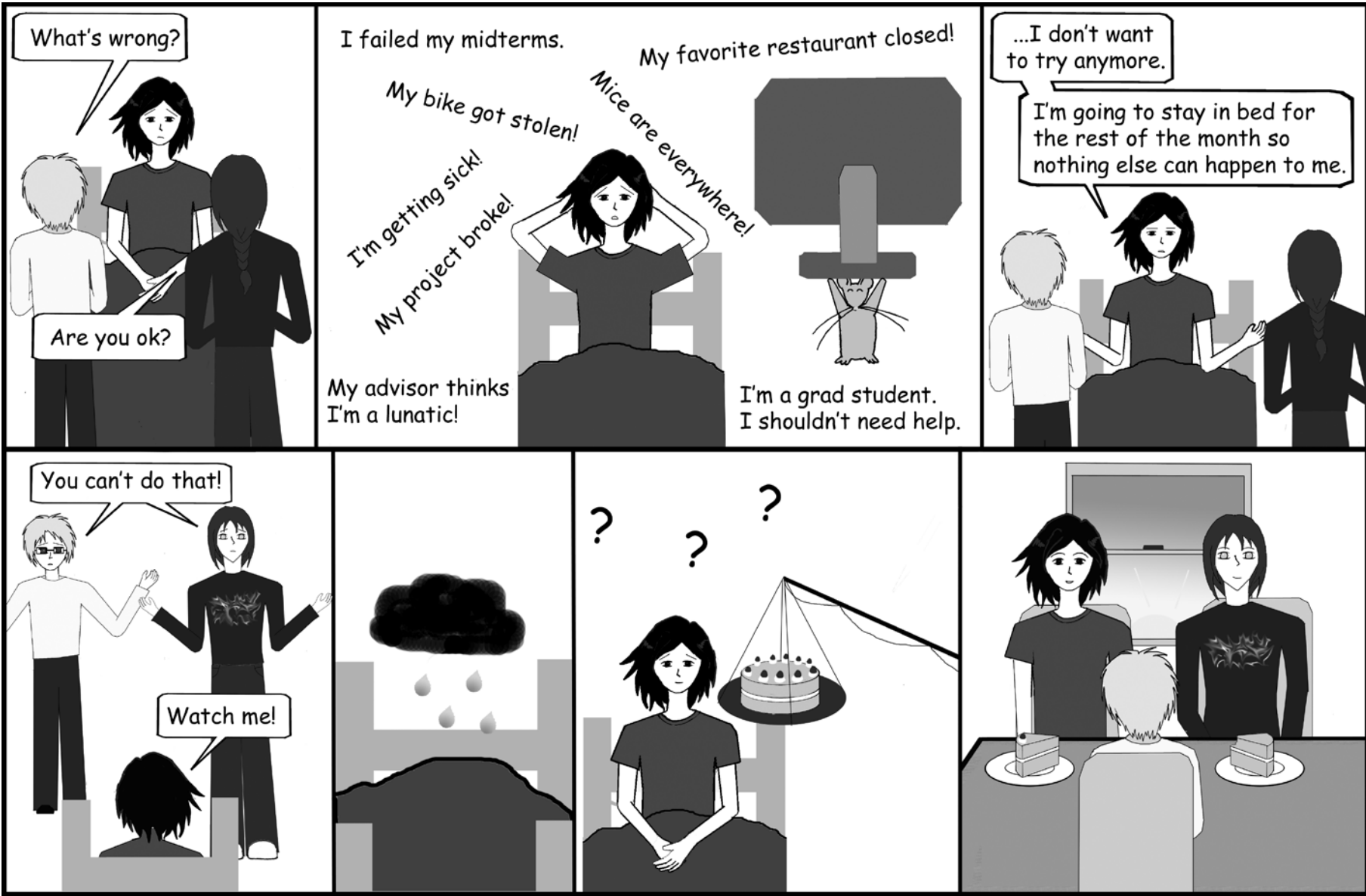
- 64 Source of eye color
 - 65 Inclusive abbr.
 - 66 Century 21 rival
 - 67 Nod off
 - 68 Controvert
- DOWN**
- 1 Cast wearer's annoyance
 - 2 Royal pastime
 - 3 Slanderous, by definition
 - 4 Email command
 - 5 Mealtime blessing
 - 6 Grammy category
 - 7 Unattributed: Abbr.
 - 8 Divulged
 - 9 Abes in wallets
 - 10 Anxious feeling
 - 11 Pinocchio goldfish
 - 12 Roadside assistance
 - 13 What the USCG may respond to
 - 21 Rabbit chaser of fiction
 - 22 Doesn't disturb
 - 25 Muffin cousin
 - 26 Makes keener
 - 27 Numero uno
 - 28 Name of 23 popes
 - 30 Hobbyist's knife brand
 - 31 "Ew-w-w!"
 - 32 Block-stacking game
 - 33 Bullet points
 - 34 French Revolution radical
 - 36 Compliant one
 - 38 Fondue cheese

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				68				

- 40 Craigslist postings
- 41 Ill-suited
- 46 Voice source
- 47 Musical with "Valjean's Confession"
- 49 Extreme enthusiasm
- 51 So last year
- 52 Jam-pack
- 53 Footnote abbr.
- 54 Franc's replacement
- 55 Initialed, perhaps
- 56 Appraise
- 57 Printer's primary color
- 58 Sanctified
- 59 Lifeguard's skill
- 60 World Cup cry

Somewhere on the Search for Meaning

by Letitia Li



UPPERCUT

by Steve Sullivan



Sudoku

Solution, page 11

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

Techdoku

Solution, page 11

30x			144x		3x
1-	12+			2	
		4x	20x		
90x				20x	
	6+	20+			
1		6x		5	

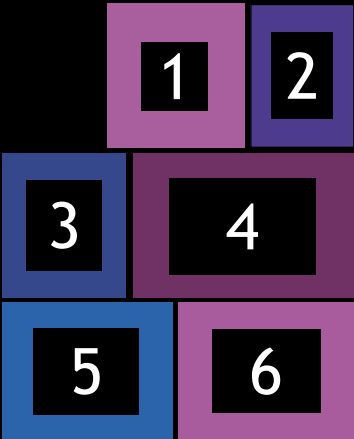
Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

SK Late Night

Photography by
Landon Carter

Sigma Kappa hosted Late Night on Sunday, October 19th at Kresge Auditorium as part of their philanthropy efforts. Various groups on campus competed in the talent show for various awards.

- 1. Delta Kappa Epsilon.
- 2. Francis Chen.
- 3. Kevin Tian of Zeta Beta Tau.
- 4. Nichole Clarke of Pi Beta Phi. They would go on to win the Judge's Choice Award.
- 5. Zeta Psi. They would go on to win the top award.
- 6. Stephanie Zhang of Kappa Alpha Theta.



PROFESSIONAL EDUCATION

CELEBRATING
65 YEARS

Short Programs

Est. 1949

Offers about 40 classes annually, mostly in summer, involving over 70 MIT faculty members and lecturers. Focus on intensive class work, lab exercises, and discussion of challenges faced by the global group of attendees from industry, government, and academe.

Advanced Study Program

Est. 1964

Provides access to regular MIT classes for industry practitioners, without requiring entry into degree programs. A global pioneer in distance and online learning, with programs dating to the mid 1990s; currently serving about 75 Fellows annually.

Custom Programs

Est. 2003

Provides large-scale multi-year custom professional development programs for technical employees of BP, Novartis, Accenture, and other enterprises.

International Programs

Est. 2009

Offers 2-5 day programs in locales from Chile to Singapore to Dubai, for professionals from a diverse range of backgrounds.

Online X Programs

Est. 2014

A major digital learning initiative to provide greater access to MIT expertise for technology-oriented professionals, and give MIT faculty greater exposure to global audiences and issues, particularly in emerging economies.

MIT LIFELONG LEARNING FOR TECHNOLOGY PROFESSIONALS

Since our launch by President Killian in 1949, MIT Professional Education has provided tens of thousands of practicing engineers, scientists, and managers from around the world with professional development programs led by MIT faculty.



Bhaskar Pant
Photo by Stuart Darsch

As MIT’s gateway to lifelong learning for 65 years, our mission has always been to create two-way lines of communication between the Institute and industry with mutual benefits. Participating professionals learn new skills and perspectives that make them more effective, and our participating faculty members get firsthand frontline insights that inform their research and teaching. Their comments on these pages are powerful testimony to the value they and the Institute receive.

We’re proud of our heritage and of our success: this past summer we hosted over 1000 Short Program attendees from more than 60 countries. We’re most excited, however, about our next frontier: digital learning and international programs, which are focused on global audiences and issues, particularly in emerging economies. There is great hunger for knowledge in these economies, and they’re also places that our faculty and students are keen to understand better.

Our enduring success is due to the excellence of what MIT as a whole provides—this is why so many accomplished professionals from around the world want to expand their knowledge with us. We hope that you will share our pride as we celebrate the 65th anniversary of our Short Programs and the 50th anniversary of our Advanced Study Program, and continue pursuing the Institute Mission Statement’s charge “to bring our common knowledge to bear on the world’s great challenges”.

Best Regards,

Bhaskar Pant

Bhaskar Pant
Executive Director
MIT Professional Education
bpant@mit.edu

“Short programs connect real-world problems with fundamental education. The industrial participants challenge us with the problems of their day jobs, and this carries over to and has profound impact on how we teach our regular MIT students.”



CHARLES COONEY
PROFESSOR OF
CHEMICAL
ENGINEERING

“MIT Professional Education is irreplaceable, because it connects me, on a deep and comprehensive level, with leaders and practitioners in industry. The intense weeks of classroom work and discussion allow me to focus my research and educational activities on high-impact targets that are relevant to urgent real-world needs.”



MARKUS BUEHLER
DEPARTMENT HEAD AND PROFESSOR, CIVIL
AND ENVIRONMENTAL ENGINEERING

“It helps me as an MIT professor to work with practitioners—an FBI agent who’s in charge of New England’s homeland security, someone in Disney’s security operation. When I talk to my students, it’s not all hearsay from books and articles, but from talking to people about their life responsibilities.”



RICHARD LARSON
DIRECTOR, CENTER FOR ENGINEERING SYSTEMS
FUNDAMENTALS
PROFESSOR OF ENGINEERING SYSTEMS

“We’ve had a summer course on advanced drug delivery systems for 35 years that has trained thousands of people. It’s wonderful to see that so many of these have become leaders.”



ROBERT LANGER
DAVID H. KOCH INSTITUTE PROFESSOR
DEPARTMENT OF CHEMICAL ENGINEERING

➔ GET THE FULL STORY OF MIT
PROFESSIONAL EDUCATION AT
professionaleducation.mit.edu

MIT PRESIDENT RAFAEL REIF
MIT PROFESSIONAL EDUCATION: A STRATEGIC ASSET FOR THE ENTIRE INSTITUTE



The programs that make up MIT Professional Education have benefitted tens of thousands of engineers, scientists, and managers worldwide, and I know from personal experience* that teaching in these programs is richly rewarding for our faculty. And for the Institute as whole, the dividends earned over the past 65 years have been tremendous—we are better connected to the front lines of technology-driven enterprise, and better able to fulfill our mission of disseminating knowledge and effecting positive change. Going forward, the experience and skill of the MIT Professional Education team, and their collaborating faculty members, provide a robust foundation for our work in lifelong learning, and a strategic asset for the entire Institute.

*President Reif was the instructor for the 1997 short program Multilevel Interconnect Process Technologies for Microelectronic Fabrication

“Our Nuclear Plant Safety course has helped educate hundreds of professionals from all over the world since 1966. Its success is a testament to the increasing importance of MIT’s professional courses, as industries seek to maximize the benefits of fast-changing innovative technologies while also thinking about their impact on society.”



MUJID KAZIMI
DIRECTOR, CENTER FOR ADVANCED NUCLEAR ENERGY SYSTEMS
PROFESSOR OF NUCLEAR ENGINEERING
PROFESSOR OF MECHANICAL ENGINEERING

“Creating the first online Professional Education course was fantastic—a very collaborative, friendly, visionary, and zestful experience. The MIT-CSAIL faculty enjoyed creating content, the students found great value, and everybody on the BigDataX team looks forward to future projects and collaborations.”



DANIELA RUS
DIRECTOR, MIT-CSAIL
PROFESSOR OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

PRESIDENTIAL PERSPECTIVES
ON PROFESSIONAL EDUCATION

JAMES R. KILLIAN, JR.
MIT PRESIDENT 1948–1959

Killian established the Office of the Summer Session (later known as the Professional Institute and now as Short Programs) in 1949 “to utilize the facilities of the Institute during the summer months to the advantage of industrial, technical, and scientific people who cannot participate in our year-round academic program, and to provide parts of our regular academic program for members of our student body who wish to remain for study in Cambridge during the summer.”



JULIUS R. STRATTON
MIT PRESIDENT 1959–1966

Stratton oversaw the 1963 establishment of the Center for Advanced Engineering Study (now the Advanced Study Program). “Designed to provide a substantial new curriculum of postgraduate work for both practicing engineers and for professors of engineering, the Center... promises to give form to an altogether new component of engineering education.”



CHARLES M. VEST
MIT PRESIDENT 1990–2004

MIT’s Summer Session (now Short Programs) was launched simultaneously with the research-oriented Industrial Liaison Program. In his 50th anniversary talk in 1999, Vest commented, “Both proposals were deeply rooted in the basic values of MIT, and both were designed to help faculty into greater direct contact with senior leaders and decision-makers in industry and government....There can be little doubt of the enduring value [the Summer Session] has had for both the Institute and the larger community we serve.”



Danny Wang
and Kristala
Prather

FIFTY YEARS OF FERMENT

Fermentation Technology, one of the longest-running courses in the Short Programs portfolio, was first offered in 1962 and now boasts over 5,000 alums worldwide. While the name has remained constant, the content has constantly evolved to include the latest biological and biochemical advances.

It’s widely known as “Danny Wang’s Fermentation Technology class” after Institute Professor Daniel I.C. Wang, who took it over in the mid-1960s from its founder, Professor Richard Mateles of the former Nutrition and Food Sciences Department. Wang continues to direct the class, with Chemical Engineering Associate Professor Kristala Prather handling teaching duties.

In 1976, the course was offered for the first time abroad (in Zurich, Switzerland), and in 1978, for the first time at an industry site (Eli Lilly, Indianapolis, Indiana). Since then it has been taught worldwide, and its content adapted into a 1979 textbook, *Fermentation and Enzyme Technology* (Wiley).

The only years the course has not been offered at MIT were 1964 and 1966. “Those two years off led to our choosing this year, 2014, to celebrate the 50th anniversary of Fermentation Technology,” says Prather. “We look forward to what the next 50 years bring!”

“Our product families and platforms course, entering its eighth year, has created a global community of professionals who leverage the curriculum’s concepts in strategy, platform architecture, and design for commonality. Through our social media, alums and a growing group of engaged companies are connecting, sharing insights, and creating value for their firms and customers.”



OLIVIER DEWECK
PROFESSOR OF AERONAUTICS AND ASTRONAUTICS AND
ENGINEERING SYSTEMS

“I teach innovation, and innovation is a two-way street. I have benefited a great deal from my interactions with the participants in my professional course — as the innovation landscape changes, I have found my class to be as much a venue for an exchange of ideas as a traditional class.”



SANJAY SARMA
MIT DIRECTOR OF DIGITAL LEARNING
PROFESSOR OF MECHANICAL ENGINEERING

“Our Lean Enterprise course has attracted academics from all over the world, who take the knowledge back to their institutions; many of those people have become colleagues. MIT Professional Education has helped us fulfill our original mission of getting the course material into academic programs.”



EARLL MURMAN
FORD PROFESSOR OF ENGINEERING EMERITUS
PROFESSOR EMERITUS OF AERONAUTICS AND ASTRONAUTICS



“Part of MIT’s mission is to provide exceptional educational programs that prepare people to make a difference in the world, whether they’re undergraduates, graduate students, or practicing professionals. We’re proud that MIT Professional Education is carrying out this work in so many avenues and in such innovative ways.”

SCHOOL OF ENGINEERING DEAN IAN WAITZ:
EDUCATION THAT PREPARES
PEOPLE TO MAKE A DIFFERENCE

Ebola case raises problems for NYC

Patient claims to have made trip around city while symptomatic

By Anemona Hartocollis
THE NEW YORK TIMES

New York City’s first confirmed case of Ebola has raised complicated logistical issues of how to trace the possible contacts of an infected patient in a city of more than 8 million people with a sprawling mass transit system and a large population of workers who commute every day from surrounding suburbs and states.

By the time the patient, Dr. Craig Spencer, an emergency doctor who had recently returned from Guinea, arrived at Bellevue Hospital Center in Manhattan by ambulance Thursday, he was seriously ill, with a 103-degree temperature and the beginnings of diarrhea, officials said.

Spencer complicated the tracing process when he told health officials that just the night before, he had gone bowling in Brooklyn, making the long trip there from his home in Upper Manhattan by subway and then returning in a car hired via Uber.

It was soon clear that health authorities were worried, as word emerged that they were isolating not just Spencer’s fiancée but also two friends who had been with him in the two days before he arrived at the hospital.

City officials were making plans to provide case managers for every family or person who might need to be quarantined.

New York has some advantage in that it may be able to learn from what happened in Dallas, where two nurses became infected with Ebola after treating the first Ebola patient in the United States, Thomas Eric Duncan, who died of the virus on Oct. 8.

Israel Miranda, president of the union of uniformed emergency medical technicians and paramedics, said Thursday that he was satisfied with the way Spencer’s transport to the hospital had been handled.

Two ambulances responded, and two paramedics fully encased in protective suits brought Spencer out of his apartment.

When the paramedics left the hospital, their suits were sprayed with disinfectant and cut off from behind by a special unit, Miranda

said. The ambulance was also decontaminated.

He said the paramedics would have their temperatures taken twice a day for 21 days.

Soothing the fears of those who may have been at The Gutter, the Brooklyn bowling alley Spencer visited, or who might have ridden in a subway car with him could well be more challenging.

Spencer has been isolated in a seventh-floor ward at Bellevue, the city’s main public hospital, that was specially designed to treat highly infectious tuberculosis patients. The unit is locked and guarded, with rooms where health care workers can be decontaminated and cameras can monitor patients remotely.

Colorfulwallets®

Daily use,

Hold it

Credit card

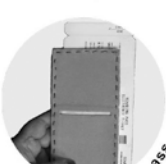
ID slot

Front pocket

Money

Tap n Go

Jacket

Boardingpass

Handmade in the USA

Using lambskin leather, nylon-lining, all-purpose glue, polypropylene plastic, and acrylic paint

Measures 6.7h x 3.1w x 0.3d

Selection Cool blue, Mermaid green, Sour yellow, Sunrise orange, and Outdoor pink

Purchase through Amazon





A balance of engineering and style™

Segall values Institute’s culture

She sees ‘openness of continued learning’ on campus

Segall, from Page 1

Ombuds Office is also independent of any other organization on

campus, and is therefore able to guide visitors through problems impartially. The Ombuds report to President L. Rafael Reif, and

may reach out to certain individuals or groups to allow them to resolve conflicts without a public audience.

Bose is pleased to offer special savings for all students, employees and retirees of M.I.T.



Call now to receive savings on most Bose® products, from complete home entertainment systems to solutions for today’s most popular portable music devices.

SoundLink® Mini Bluetooth® speaker

Full, natural sound from an ultra-compact speaker that fits in the palm of your hand. Colored covers available: Blue, Red, Mint, Green, Orange, Gray and Pink.



Audio headphones

Bose sound quality that fits your music – and your style. In a variety of colors. With inline mics for phone calls.

Please direct all inquiries to the “M.I.T. Purchase Program.”

1-800-298-BOSE (2673)

BOSE
Better sound through research

©2014 Bose Corporation. Delivery is subject to product availability. The two-tone swirl headphone cord is a registered trademark of Bose Corporation. CC014869

Following opportunity is open to eligible Sophomore and/or Junior students in the School of Engineering and the School of Science

THE BARRY M. GOLDWATER SCHOLARSHIP

The Barry M. Goldwater Scholarship and Excellence in Education Program was established by Congress in 1986 to honor Senator Barry M. Goldwater, who served his country for 56 years as a soldier and statesman, including 30 years of service in the U.S. Senate. The purpose of this program is to provide a continuing source of highly qualified scientists, mathematicians, and engineers by awarding scholarships to college students who intend to pursue careers in these fields.

The Goldwater Program provides scholarships of up to \$7500 per academic year. Sophomore scholarship recipients will be eligible for two years of scholarship support. Junior scholarship recipients will be eligible for one year of scholarship support.

If you feel you are qualified for one of these prestigious awards, please discuss this with your academic advisor or your department head.

Nominations must be from YOUR DEPARTMENT and are due at the School of Science or School of Engineering Dean’s Office (as appropriate to your major) by

November 18, 2014

For further information:
Contact your academic administrator;
and/or the following:

<http://www.act.org/goldwater/> or <http://web.mit.edu/engineering/goldwater.html>

School of Engineering contact: Victor Duque, Room 1-206, x4-7108, vau3@mit.edu
School of Science contact: Thomas Fisher, Room 6-125, x3-8900, fishert@mit.edu

Solution to Crossword

from page 5

EDIT	USEME	CAPE
YOGA	NOTUP	HIRE
EVER	FRANC	IDOL
DETROIT	LIONS	
ANT	TEENSY	
IMAGE	MAC	ELOPE
MANO	RELOAD	HAS
PRINCETON	TIGERS	
AIM	AVENGE	ELSE
INAPT	SEA	ROPE
RELICS	HIM	
CHICAGO	BEARS	
BARK	NASAL	TRAY
OPAL	UNTIL	REIN
GENE	STONY	YALE

Solution to Sudoku

from page 6

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

Solution to Techdoku

from page 6

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

Even The Tech needs tech support and we’re looking for some. join@tech.mit.edu

CANOBIE

LAKE PARK

RTE. 93 EXIT 2 OR 3 SALEM, NH

SCREEEMFEST

WEEKENDS Sept. 27 - Nov. 1

Group Rates available for 25+ Plus!

HAUNTED HOUSES

Dead Shen

MERRIMENT INCORPORATED

VIRUS

THE VILLAGE

CANNIBAL ISLAND

THE SIDE SHOW VARIETY SHOW

OPEN FRIDAYS
at 6PM,
SATURDAYS
& SUNDAYS
at 1PM!
FREE PARKING!

ROCKTOBER FEST

LIVE TRIBUTES to your
FAVORITE ROCK & METAL BANDS
Weekends Sept. 27 - Nov. 1

The Magic Seed
Petting Zoo
& Sculpture Garden

Sept. 13 - Nov. 1
Saturdays & Sundays 1pm-5pm

HAUNTED HOUSES, RIDES,
LIVE SHOWS, PETTING ZOO, ROCKTOBERFEST & SO MUCH MORE!

For hours, prices and more info on our fall events,
visit canobie.com.

Residents hope to maintain culture

Construction to affect student life with sporadic shutoff of utilities

Sidney-Pacific, from Page 1

are you forced out when someone invades your home?" one resident asked Humphreys.

Students may also be placed in other dormitories in the graduate housing system or find off-campus housing.

"This past year we were at capacity both for single and married graduate housing. We did have availability in Tang this past year, but whether that will occur this coming year, I honestly can't tell you," said Humphreys, when asked where the 370 students will relocate.

The housing office will give Sid-Pac residents who decide to stay the option to cancel their housing without penalty at any time. If these students choose to move off-campus at any point after choosing to stay in the dorm, their continuing status — the ability to remain in SidPac — will still be maintained. Students who move out before the renovations begin will forfeit their continuing status.

Those students who choose to take the two-bedroom quad option will also have some of their rent reduced, though the specific details of this have not been determined. Humphreys said that no other financial assistance will be given to students planning to move off-campus.

For those residents who are not asked to move, the construction may still affect day-to-day life at SidPac. "There will be single-digit, small short term shutdowns... electricity, chilled water, and something like that. We'll schedule those at the best time for building and with plenty of notice," stated Matthew Kearns in the town hall.

Other issues associated with the renovations have not been fully determined, such as the hours when the construction will take place, when students will have to enter into an inter-building lottery if they choose to switch dorms, and what will happen to the current residents' seniority points if they choose to move off campus. "We wanted to

work with the student leadership to answer those particular questions," said Humphreys in a response to a question regarding accumulating housing points after leaving SidPac and rejoining.

More important to residents, however, was the prospect of losing the community in SidPac.

"If there are no new residents coming in during construction year, then you will have no new people that will be able to make that community," claimed another resident during the town hall.

"SPEC and the student government's biggest concern going forward is to keep the community together during the construction," said Jenny Wang G, President of the Sidney-Pacific Executive Council, in an email to *The Tech*. "The culture in SP is very special on campus so we want to preserve it for the future."

The planned renovations at Sid-Pac most closely resemble last year's Bexley shutdown. "The key thing that we learned during Bexley... is constantly communicating with the group of leaders," said Humphreys. "I want to make sure we keep rumors down to a minimum... students are already stressed enough about having a project going on."

Wang reiterated the communication effort from the student government perspective. She said, "There will be a continuing conversation between the administration, the student leadership, and the residents over the next weeks and months as the planning progresses."

In the interview, Humphreys emphasized maintaining communication with the students affected throughout the process. "We will have as many meetings as we need to have with the students to get them to a place where we know that they're comfortable personally, but also that the community feels like they're sustainable," he said.

A frequently asked questions handout, given during the first town hall meeting, also requested students send their questions to sidpachvac@imit.edu.

CUSTOM PRINTED & EMBROIDERED T-SHIRTS

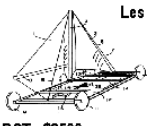
SWEATSHIRTS - POLOS - HATS & MORE!

- Deal Direct - NO Middlemen!
- Great Pricing & Free Delivery*
*Cambridge & Boston Area
- Traditional Screenprinting
- Full Color Digital Printing
- Embroidery

ph - 617-625-3335
email - info@qrsts.com
www.qrst.com

Somerville, MA

part of R.A.W. (Rinnigade Art Works)



Les Virany VI-1 '83
Registered
Patent
Agent
412-608-8791
lvirany@yahoo.com

PCTs \$3500
PPAs \$750

Get Green Card Approval
Legal experts to craft I-140s
that get 1st time approval.
Free case evaluation at
tomcdonaldlawoffice.com

Participate in our Psychology Experiment and receive \$40
Opportunity to win an additional \$10!
(Harvard Decision Science Laboratory)

Interested in making some \$\$?

We are looking for individuals to participate in our 'Health, Performance and Social Networks' study at the Harvard Decision Laboratory. Sign-up from the link below, and bring a partner with you - a friend, romantic partner or a family member - anyone who you believe knows you well, and receive \$40 in cash (\$20 each)!

In addition, by taking our follow-up survey two weeks after your participation date, you will have a chance to win an additional \$10 Amazon gift-card!

Sign-up HERE: <http://goo.gl/forms/jBPiOmQgpj>

WE'RE SEEKING TO BUILD OUR FORCES
JOIN@TECH.MIT.EDU

Institute Double Take



By Ho Yin Au

STAFF PHOTOGRAPHER

Being out and about during magic hour with a camera — the time right before sunrise and after sunset — is a great way to capture beautiful photos. The light is soft and tinged with warm colors. In the evening, the orange and yellow city lights illuminate

the skyline, providing a nice contrast to the blue and purple skies. Everything glows. At 6:30 p.m. on October 8th, 2013, the sun had already set, and the sailboats were returning to dock in the fast waning rays of twilight. It was quite a colorful and serene scene, punctuated by the waxing crescent moon. A high aperture and ISO was used to keep as much of the scene in focus as possible. Even

though the original was in color, a black and white version was created for a business that wanted a framed 30" by 30" print in their office. The original image was in 3:2, so a simple square crop wouldn't work without cropping some of the sailboats. I used the content-aware resizing tool in Photoshop to keep the essence of the original image in the new aspect ratio, with the business's approval.

Aperture:

 $f/8$

Exposure Time:

1/10 sec.

Sensitivity:
ISO 3200

Effective Focal Length:
45 mm

45 mm

crowdfund 

**Supporting community, ideas,
and innovation at the source of
its inspiration.**

Enrollment is now open for MIT's exclusive crowdfunding resource

To learn more about Crowdfund MIT or
to apply to start your own campaign, visit: giving.mit.edu/crowdfund

DONATE SPERM
EARN UP TO
\$1,500/Month

BE A HERO

SPERMBANK.COM
APPLY ONLINE



MITSSS Presents

KOPITIAM

COME SAVOR THE INCREDIBLE SINGAPORE GASTRONOMICAL DELIGHTS!

1ST NOV '14 (SAT) 12-3PM

SIDPAC MP ROOM (NW86)

CASH ONLY

"The shiokest food event of the year."
-macadish.com

"If I could, I would order everything twice over!"
-ijiatishootipost.com

"1st law of foodynamics. Long Queue = Good Food."
-scienceofmakan.com

Sponsored by:

LEF/ARCADE

Event sponsored by



Graduate Student Council

all graduate students welcome

Distinguish Yourself

as a Burchard Scholar

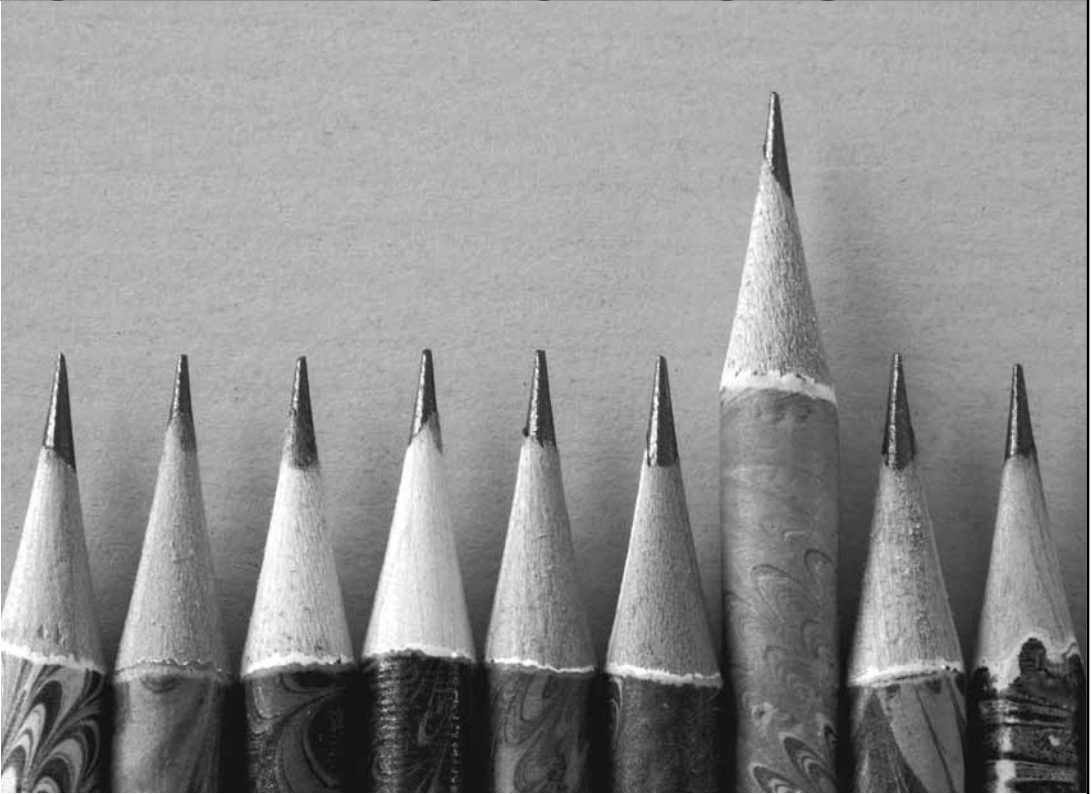
Expand your intellectual and social horizons.

Meet with other Burchards and MIT faculty each month for a delicious dinner and seminar on topics of the day. Sophomores and Juniors who have shown excellence in some aspect of the humanities, arts, or social sciences are encouraged to apply. Burchard Scholars can be majors in any department; no preference is given to HASS majors.

Apply at:

shass.mit.edu/burchard

Sophomores + Juniors—Apply by November 20, 2014



great ideas change the world

SCHOOL OF HUMANITIES, ARTS, & SOCIAL SCIENCES

Men's soccer defeats Framingham State 2-1

Engineers improve their record to 6-4-4 on the season with non-conference win

By Matt Noonan
DAPER STAFF

For the second straight contest, Sean D. Bingham '16 and Joshua M. Wilson '18 each found the back of the net as the MIT men's soccer team defeated Framingham State 2-1, in non-conference action on Tuesday evening at Maple Street Field. With the win, Tech improves to 6-4-4 overall, while the Rams fall to 4-9-2.

Tech commenced the contest with five consecutive shots, including two attempts directed toward Framingham State goalkeeper Jacob Nichols, which were turned away. Cory Cardeiro capitalized on the game's next shot — the Rams' initial shot of the match at 30:19, which provided the hosts with their only advantage of the evening. Cardeiro deposited his sixth goal of the season after he dodged past MIT's backline on a broken play.

MIT evened the score roughly a minute later when Bingham converted on his second penalty kick of the season at

31:42 for his 11th goal. Wilson capitalized on the Cardinal and Gray's next attempt at 36:39 by firing home a feed from Bingham for his ninth goal, which provided the visitors with a 2-1 lead at the break.

Framingham State's defense began the second half blocking back-to-back attempts by Austin E. Freel '16 and Wilson before the Rams' offense countered with consecutive shots by Cardeiro and Suhairu Kato that were blocked by MIT's backline. Cannon also came up with a big stop too as he denied a penalty shot by Bryan DaSilva at 52:14.

MIT outshot Framingham State, 17-11, including 10-3 in the opening session. Nichols finished the match with seven saves, while Cannon registered four stops. Tech also held an advantage in corners, 10-0, with six occurring during the second stanza. Wilson, who led the Engineers and all players in shots, matched a career and season-best with five shots.

Both teams return to action on Saturday, October 25 as MIT hosts Springfield College at 1 p.m., while Framingham State welcomes Massachusetts Maritime Academy for a 12 p.m. start.



ALEXANDER C. BOST—THE TECH

Fernando A. Yordan '17 spars against a competitor during the 2014 MIT Taekwondo Tournament on Sunday, Oct.19. The tournament, featuring 424 competitors from 24 schools, saw MIT earn second place in ECTC Division I.

UPCOMING HOME EVENTS

Saturday, October 25

Sailing vs. Oberg Trophy

9:30 a.m., Charles River

Women's Swimming and Diving vs. Charlie Batterman Relays

12 p.m., Zesiger Center Pool

Men's Swimming and Diving vs. Charlie Batterman Relays

12 p.m., Zesiger Center Pool

Men's Soccer vs. Springfield College

1 p.m., Steinbrenner Stadium

Football vs. Western New England University

5 p.m., Steinbrenner Stadium

Men's Water Polo vs. Connecticut College

7 p.m., Zesiger Center Pool

**DON'T GET STUCK
BETWEEN A ROTH
AND A HARD PLACE.**

The ins and outs of retirement planning can be puzzling. So at TIAA-CREF, we use personalized advice¹ to help clients reach their long-term goals. We do it in person, online and on the phone. All at no extra charge. See what our professional advice and award-winning performance can do for your financial health. The sooner you act, the better.

**Learn more in one click at TIAA.org
or call 855 200-7244.**



Financial Services

Outcomes
That Matter



¹Restrictions apply. Must be enrolled in a TIAA-CREF retirement plan to be eligible. ²The Lipper Award is given to the group with the lowest average decile ranking of three years' Consistent Return for eligible funds over the three-year period ended 11/30/12 and 11/30/13, respectively. TIAA-CREF was ranked against 36 fund companies in 2012 and 48 fund companies in 2013 with at least five equity, five bond, or three mixed-asset portfolios. TIAA-CREF Individual & Institutional Services, LLC, and Teachers Personal Investors Services Inc. C17743A ©2014 Teachers Insurance and Annuity Association of America – College Retirement Equities Fund (TIAA-CREF), 730 Third Avenue, New York, NY, 10017.

Consider investment objectives, risks, charges and expenses carefully before investing. Go to tiaa-cref.org for product and fund prospectuses that contain this and other information. Read carefully before investing. TIAA-CREF funds are subject to market and other risk factors. Past performance does not guarantee future results.

MIT drops to 10-2 overall and 5-1 in conference play after the defeat

DAPER STAFF

Wellesley wasted little time in increasing its cushion as it went up 2-0 after 4:12 elapsed in the second half. On a penalty corner, Courtney Peterson inserted the ball and it eventually made its way to Meghan Peterson

The Blue continued to control the action, resulting in Gruet's second strike of the night. With the ball at the top of the arc, Emmy Hamilton sent it through MIT's defense to the far post where Gruet tipped it in with 26:30 on the clock. Stymied for most of the frame, the Engineers nearly ended the shutout on a quick hit by junior Morgan E. Gulliver '16 with eight minutes to go but Lucy Hurlock denied the attempt. Wellesley replied by capping the scoring 90 seconds later when Sridhar collected the rebound of Courtney Peterson's saved shot and slipped it past Kyritsis.

Both squads continue NEWMAC play on the road on Saturday, Oct. 25. MIT will travel to No. 17 Mount Holyoke College while Wellesley will visit Clark University.



Allison A. Davanzo '18 spikes the ball during Tuesday's game against Babson College. MIT won the NEWMAC game 3-1, continuing the winning streak and advancing the team to a 23-2 overall score.

DANIEL MIRNY—THE TECH

The logo for MIT Federal Credit Union. It features a stylized red dome with horizontal stripes above a series of red horizontal bars. Below these is the text "MIT" in large, bold, grey letters, followed by "FEDERAL CREDIT UNION" in smaller, bold, grey letters.

Federally insured by NCUA