

REPORTER'S NOTEBOOK

In ceremony, Reif takes helm of MIT

Dignitaries honor new pres.

By Maiko Kitaoka
STAFF REPORTER

The past week was full of celebrations in honor of the inauguration of MIT's 17th president, L. Rafael Reif. The events reached a peak Friday afternoon with the inaugural ceremony in Killian Court.

The morning dawned clear and sunny, if a bit chilly. There was a nip in the air signaling the colder season ahead as students, faculty, alumni, and other guests piled into Killian Court that afternoon. But underneath the large white tent — which encompassed nearly the entire Court — the mood was anything but cold as audience members took their seats.

Accompanied first by the MIT Ceremonial Brass and then by the Rambax MIT Senegalese Drum Ensemble, the inaugural procession seemed to continue for an eternity as delegates from different universities walked to their seats either on the stage or in the black chairs in front of

the stage. Finally, amid the diverse colorful gowns and decorative hats, the audience got its first glimpse of Reif in his regalia as he walked through the pavilion and took his place on the stage.

Robert M. Randolph, chaplain to the Institute, offered his solemn prayer for Reif's time as president, hoping that Reif "may be wise and surrounded by the learned ... so that we stand or fall together."

Despite the formality of the event, unexpected humor occasionally popped up. Drew G. Faust, president of "that red brick school up the street," followed Randolph with her own congratulatory and supportive speech. Taking the MIT-Harvard rivalry in good stride, Faust called the two schools "sisters working side by side" and presented Reif with a framed picture of John Harvard's statue completely decked out in MIT apparel, just "1.9 miles, or in MIT units, 1797 Smoots" away.

Inauguration, Page 10



IAN M. GORODISHER—THE TECH

John S. Reed '61, chairman of the MIT Corporation, hands over the Charter of MIT to President L. Rafael Reif, making Reif's presidency official.

MIT to open new daycare facility

219 Vassar to open Aug. 2013 with 126 spots for children



BENJAMIN F. REYNOLDS

219 Vassar St., unoccupied for the past five years, will soon be demolished to make room for a new and much needed MIT daycare. Funded by David H. Koch '62 and Charles W. Johnson '55, the daycare is set to be finished by August 2013.

By Jessica J. Pourian
EDITOR IN CHIEF

MIT is opening a new daycare center at 219 Vassar Street, where the current building is up for demolition and will be replaced by a dedicated daycare facility. Slated to open by end of summer 2013, the new center will have spots for 126 children — nearly doubling the size of MIT's current daycare population of 142.

The daycare center, which will be known as Technology Children's Center (TCC) Vassar, is the fifth on-campus daycare facility at MIT. The other centers are located at Eastgate, Westgate, and Stata, and there is a new infant

care room in Building 68. In addition, there is an MIT daycare in Lincoln, MA near Lincoln Labs.

TCC Vassar will have its own two-story building, with 11 classrooms that will place children with others their age. There will be outdoor facilities with a playground, climbing structure, sandpit, and gardens.

The project was made possible by donations from David Koch '62 and Charles W. Johnson '55 and Jennifer Johnson. MIT declined to disclose the amount of the donation. Koch most recently donated money to build the Koch Center for Integrative Cancer Research, Building 76.

It's a "longstanding desire of many

of us to see increased daycare facilities on campus," said Edmund Bertschinger, head of the Physics Department and chair of the Work-Life Subcommittee of MIT's Employee Benefits Oversight Committee.

The committee was "charged with providing recommendations to the administration for daycare enrollment policies, for tuition rates, and other services related to work life balance," explained Bertschinger.

Like the other TCCs, the Vassar location will serve children aged two months to pre-kindergarten. Of the 126 children, there will be 21 infants,

Daycare, Page 8

Eastgate

infants	5 day: \$2,334
	3 day: \$1,634
	2 day: \$828
toddlers	5 day: \$1,958
	3 day: \$1,371
	2 day: \$979
preschool	5 day: \$1,657
	3 day: \$1,160
	2 day: \$828

Stata

infants	5 day: \$2,334
	3 day: \$1,634
	2 day: \$828
toddlers	5 day: \$1,958
	3 day: \$1,371
	2 day: \$979
preschool	5 day: \$1,657
	3 day: \$1,160
	2 day: \$828

Lincoln

infants	5 day: \$2,136
	3 day: \$1,495
	2 day: \$1,034
toddlers	5 day: \$1,912
	3 day: \$1,338
	2 day: \$922
preschool	5 day: \$1,630
	3 day: \$1,141
	2 day: \$728

INFOGRAPHIC BY SARAH RITTER

Comparison of MIT daycare center prices. Eastgate, Stata and Lincoln all offer five, three, and two day options, while Westgate only offers five day options for child care.

Westgate*

*parent cooperative

5 full days: \$1,349
5 mornings: \$675

Career fair features 370+ companies

Sees high attendance despite timing conflicts with inauguration

By Stan Gill
NEWS EDITOR

The inauguration of President L. Rafael Reif didn't stop the students from scrambling to talk to companies at this year's Career Fair on Friday. Johnson Ice Rink and the 3rd floor track were still packed with students hoping to network with the 370+ companies that attended this year's fair.

"I'm here to get a better perspective of the companies, give

people my resume, and get myself out there," George C. Arzeno '14 said.

One new addition to the fair was the digitization of name tags. Upon entry, students scanned their IDs, and a computer would print out a name tag with their majors as listed on Careerbridge. Unfortunately, this resulted in a line that wrapped around from the back from near the entrance to Rockwell Cage and out the main doors. Although there was a 10 - 15 minute wait for entry, stu-

dents were still eager to get into the fair and talk to the companies they wanted to see.

"There was one company I talked to last year, Chevron, that had a job that was very interesting to me, so I'm going to talk to them again to see if I can get an interview," Jean Sack '13 said.

From those new to the fair to seasoned veterans, companies from a variety of different disci-

Career fair, Page 17

IN SHORT

Add Date, the last day to add classes to this term's registration, is next Friday, Oct. 5. The form is at <http://web.mit.edu/registrar/forms/reg/AddDropChange.pdf>.

The deadline to apply for Fall semester UROP direct funding is this Thursday at 5 p.m. The application portal is here: <https://si-sapp.mit.edu/uropweb/home.mit>.

Teach for Splash! Register at <http://esp.mit.edu>. The deadline to

register is this Friday, Sept. 28.

The IAP externship application is open. See externship listings and apply at <http://alum.mit.edu/students/NetworkwithAlumni/ExternshipProgram/Application>.

The Massachusetts voter registration deadline is Wednesday, Oct. 17. Find out more at <http://www.sec.state.ma.us/ele/elefv/howreg.htm>.

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

WHO TEACHES THE TEACHERS?

At MIT, we should ask for programs where we learn to teach.

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WE STAND, ADVANCED

How did the Sixteens do on those notorious frosh ASEs? NEWS, p. 16

RUSH, BY THE NUMBERS

After 2 years off, PBE takes the most pledges. NEWS, p. 15



IT'S A RAFAEL REIF KINDA LIFE

You can look forward to about 10 more years of Reif puns and rhymes.

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FROM CAMBRIDGE TO CAMBRIDGE

The story of an Englishman displaced from his natural habitat.

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MIT should create an education degree

For MIT to lead the way in education, it should use its graduates

By Ryan Normandin

STAFF COLUMNIST

MIT has been leading the way in education longer than many of us might realize. TEAL, implemented about a decade ago, lowered the fail rate of 8.01 and 8.02, the freshman physics classes, by embracing a much more engaging style of learning. This is consistent with research that finds that, of all possible teaching styles, students retain the least when lectured to. More recently, MIT decided to take charge of the movement towards online education by creating MITx, which soon became EdX. Although MIT has focused on college-level education, much of what it's done is still applicable to K-12 education.

However, MIT has yet to take the final step towards cementing its commitment to education. Although there is a little-known undergraduate program at MIT that results in teacher certification upon completion, MIT offers neither a major nor minor in education. By not empowering its graduates to teach, pursue education reform, or otherwise work to improve and develop methods of instruction, the Institute limits its influence in education purely to what it does on campus. This is ironic, as one of the major goals of EdX was to make an MIT education widely available throughout the world. Yet would not one of the best ways to do this be to give graduates the tools they need to go out and improve access to and quality of education?

As aforementioned, MIT currently has

a program called STEP, consisting of five classes in Course II, which results in MA teaching certification. The courses II.124 (Introduction to Education: Looking Forward and Looking Back on Education) and II.125 (Introduction to Education: Understanding and Evaluating Education) give students an introduction and some background on the history of education, current reform efforts, and some aspects of teaching and the difficulties it entails. The remaining three courses, II.129 (Educational Theory and Practice I), II.130 (Educational Theory and Practice II), and II.131 (Educational Theory and Practice III), form a yearlong sequence (II.130 is over IAP) during which students focus on what happens in the classroom and the problems one will encounter as a teacher. This includes 180-200 hours of classroom observations and teaching at a local high school. As minors at MIT generally consist of five or six classes, it would be easy and efficient to simply award a minor in education to anyone who completes this sequence.

While cementing STEP as a minor in education would be an excellent start, MIT should go one step further. The Institute should create a dynamic, cutting-edge education major which will prepare students to teach, reform, or improve instruction.

Currently, the bar to which teachers are held is low, and recruiting smart teachers is extremely difficult. According to the National Science Foundation, graduates whose college entrance examination scores were in the top quartile were half as likely as those in the bottom quartile to prepare to teach (9 versus

18 percent) and graduates in the top quartile of scores who did teach were twice as likely as those in the bottom quartile to leave the profession within four years (32 versus 16 percent).

MIT has a resource that few other schools have access to: a group of the most intelligent, motivated, visionary people in the world. It's no secret that teachers in the United States are often looked down upon, disrespected, and underpaid; the number one response I get when I tell someone I plan on teaching is, "What? Why are you throwing away your MIT degree like that?"

My vision for an MIT education major would be a rigorous program at the level of any other MIT program. Education graduates from MIT would raise the level of teaching in the schools they go to. Furthermore, it would not surprise me in the least if other big-name schools created or revamped their education programs to match the quality of MIT's. The creation of a major here could snowball into the raising of the bar for teachers across America, and provide MIT students with the option of doing something that has a powerful, immediate impact on people and the future.

As such, I implore the Committee on the Undergraduate Program (CUP) and the Committee on Curricula (CoC) to seriously undertake an effort to create an education degree at MIT. I also hope that administrators as far up as the new President Reif will see the long-term and short-term value in such a degree, and will support these committees with anything they need.

Demanding details

Why the timing and substance of Mitt Romney's strategy change prompt a reflection on our national conversation

By Jacob London

ASSOCIATE OPINION EDITOR

Last week, as Mitt Romney called a press conference to control the damage from the "47 percent" video, his campaign staff was worried for three reasons.

One: The public was learning that Romney believes that nearly half of Americans face economic difficulty because they don't work hard.

Two: Romney was about to be victimized by a sound bite — "My job is not to worry about those people" — that may become as infamous as when the president said "you didn't build that." Both statements, when placed in the proper context, take on much more sensible meanings. The president was making the point that businesses benefit from public services, not that business owners didn't build their businesses. Romney simply meant that in a competitive election,

he can't focus campaign resources on voters whom he believes to be firmly dedicated to the president. He did not mean that he would cast their concerns away if he were elected.

But the impact of gaffes on presidential elections, no matter how much they dominate the news cycle, tends to be limited. Even if the Romney campaign didn't take that into account, their third concern should have dwarfed their first two:

Three: Just hours before the remarks were leaked, the campaign trumpeted a sweeping strategy change, and their candidate's remarks had dashed any momentum that they hoped to gain by controlling the news cycle.

Around 6 a.m., mainstream political outlets began posting what was essentially the same story: Facing worrisome polling trends, the Romney campaign has announced that it will change its strategy. This

new strategy will focus more on the specifics of how Mitt Romney would govern. With under 50 days to go until the election, the Romney campaign has decided that voters need to hear more specifics about Mr. Romney's proposals — and this is a new strategy.

Romney made his first presidential bid in 2008. His 2012 campaign kicked off on June 2, 2011. And only now, in the face of harsh polling data, and pressure from conservative pundits, has the campaign decided that voters need to know more about how Romney would run the country.

In one way this is stunning. After a year and a half during which the Romney campaign has spent over \$163 million, and outside groups dedicated to his election have spent at least another \$160 million, many voters still have a poor idea of how the Republican nominee would govern.

Devil in the details, Page 5

CORRECTIONS

A page 13 headline published last Friday misstated the size of MIT's deferred maintenance backlog. It is \$2.4 billion, not \$4 billion.

That same article — "MIT 2030: are the faculty involved or not?" — also gave an incomplete title for Israel Ruiz SM '01. He is MIT's Executive Vice President and Treasurer, not Vice President and Treasurer.

The article also misspelled the name of the physics department head. He is Edmund Bertschinger, not "Bertschinger."

A Sept. 11 article on President L. Rafael Reif's first 71 days in office ambiguously quoted him when referring to faculty concerns over campus space planning. When Reif said he thought it was "valid for people [faculty] to be concerned," he was referring to the worry that insufficient space will be left in the Kendall Square area for academic use if current development plans go through. He was not specifically referring to the assertion that plans by the MIT Investment Management Company would lead to "serious and irreversible damage to MIT's future educational and research missions," according to the May/June 2012 Faculty Newsletter.

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OPINION

Brinson, Lai do not speak for campus

RLAD process just damaging student-admin relationship

RLAD process, from Page 5

the circle of people who have access to personal information of a medical or psychological nature that students generally expect to be private?

RLADs take supervision of GRTs away from the housemasters

This complaint was often heard at the beginning of this process, and was in direct response to the leaked letter from Grimson to the housemasters, which stated "the RLADs will assume a supervisory role for GRTs." (see: <http://imgur.com/a/oCW7k>) That, in response to house team and student push-back, this responsibility has been revised does not mean the complaint was not valid several months ago.

The RLAD position was implemented without a pilot

Yes, certain dorms had live-in RLAs, but their roles and responsibilities were radically different from those of the RLADs. Plus, in the old system of RLAs, some dorms had the option of not having a live-in RLA. Although Brinson and Lai are correct that not every

dorm has gotten an RLAD at the beginning of the year, it is extremely unclear (and disconcerting) whether those without an RLAD will get one in the future. As Brinson and Lai point out, Grimson did give these dorms without an RLAD the chance "to collect residents' opinions," but they themselves admit that this is simply an "option to defer" the implementation of the RLAD, not an option to not have an RLAD, nor an option to change any of their roles or responsibilities.

Further, if the RLAD position is some sort of evolution of the old RLA model, I wonder why there did not seem to be any evaluation of the RLA system. Every dorm had an RLA assigned to it, but no dorm was contacted by the administration as to how the RLA was working for them.

The RLADs declined interviews with The Tech

I have never heard anyone express this complaint. I think the RLADs are being reasonable when they deny an interview at this early juncture in their position.

The implementation has created more suspicion than support

The fractured trust between the administration and students is damaging the MIT community in innumerable ways. The administrators who are supposed to be leaders in our support system have earned reputations among some that harm their ability to provide that very support. In addition,

student engagement by the administration has regressed, even after students have made well-articulated arguments for improvement in this arena for years. (see: <http://web.mit.edu/fnl/volume/233/modi.html>)

I find it ironic that Brinson and Lai state that "[all] parties should work together to

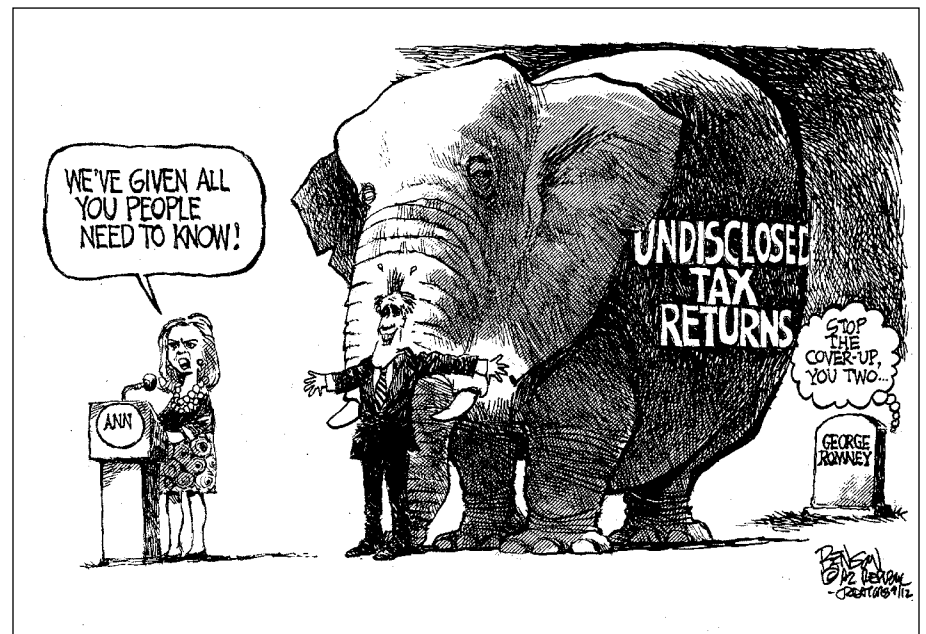
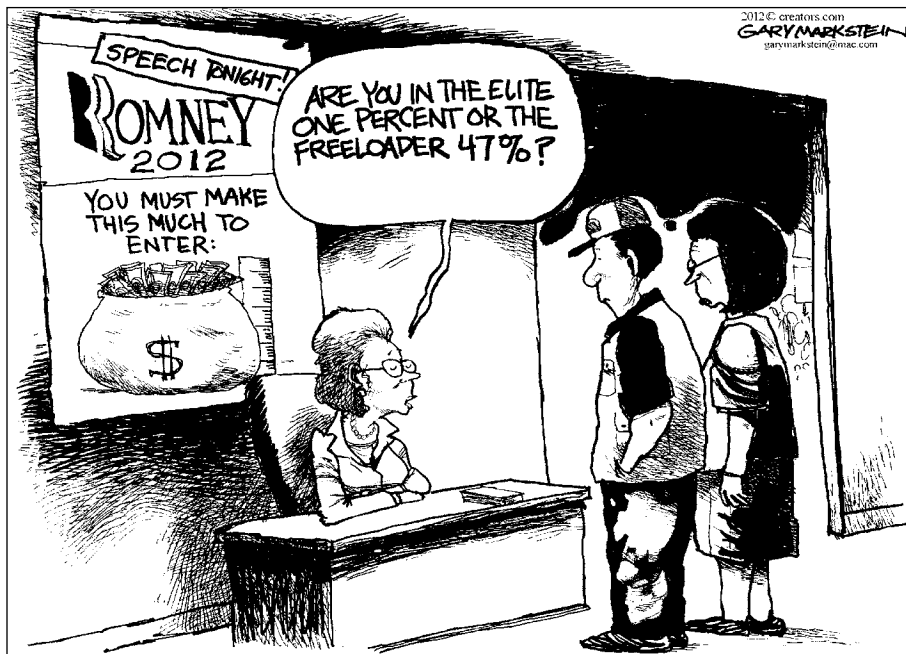
We are told that we are the ones who will help solve the problems of the world, but it seems we cannot be trusted enough to help solve the problems of MIT.

MIT's values are at risk. On the one hand, we are being told that we are being trained to be the leaders and thinkers of tomorrow, but on the other we are told that we cannot be trusted to give even basic insight on a system that has supposedly been designed to help us, and that our opinions are not of value. We are told that we are the ones who will help solve the problems of the world, but it seems we cannot be trusted enough to help solve the problems of MIT.

customize a new support system for the residents" when the administrators should have done this in the first place. I do not think that any dorm is perfect. But if Grimson, Brinson, and Lai want to see "improve[d] trust" and a more "collaborative spirit," then they need to work on them. Given what I have discussed above, and what others have discussed on this very issue, how can students trust these administrators in working with us on improving residential life? Where was the "collaborative spirit" when the RLAD position was being constructed and debated in the first place?

Concluding notes

This whole RLAD scandal shows that stu-



Have a burning desire to see these teams battle it out? In person?!

Join The Tech!
sports@tech.mit.edu

FROM CAMBRIDGE TO CAMBRIDGE

A junior by any other name

Despite linguistic confusion, MIT life is full of opportunities for an exchange student

By Mark A. Salmon

You are reading about the experiences of someone plunged into a world far removed from his natural habitat.

I am no freshman. I am in fact an exchange student, studying at MIT for one year after a prodigious voyage across the pond from “Merry Olde England.” By way of introduction, my name is Mark, a name that, when spoken in my native English accent, becomes unintelligible to a worryingly large sector of the Boston population. A typical greeting goes something like this,

“Hi, I’m [insert name here], I don’t think we’ve met.”

“Hi, I’m Mark, nice to meet you.”

“What’s your name again?”

“Mark.”

“Muck?”

“No, Mark, M-A-R-K.”

“Oh, I thought Muck was a weird name!”

Anyway, what I shall be writing about are the similarities and differences between what I’m accustomed to and comparing that to life here at MIT.

The Cambridge-MIT Exchange, which brings me here, takes place in what for me is my third year, but in the United States is known as “junior” year. In fact, one of my first observations after arriving here was the intriguing choices for the names given to dif-

ferent years here.

Puzzling to my untrained mind was that “junior,” a word I assumed to have connotations of being young, is used for the second oldest set of undergraduate students. The term “freshman” is self-explanatory, but prior to my arrival in the States I would have guessed juniors would be the second youngest, then the sophomores. The Internet tells me that the roots of the word “sophomore” lie in two Greek words, namely “sophos,” meaning wise, and “moros,” meaning foolish, which is eminently more plausible and subtle than my own initial theory that it is the result of a game of Chinese Whispers (or Telephone in the U.S.) that started with “soft-no-more.” Perhaps unsurprisingly, my theory was met with derision from my fellow exchange students in one of our numerous pre-semester meetings. Either origin, the word is at least an apt description of students in their second year, unlike “junior.”

While I may be new to this establishment, being familiar with the college lifestyle has given me experience with taking advantage of the opportunities that only exist the first few weeks of college. I was savvy enough to make full use of the variety of free food events offered on campus, knowing they do not last forever. At least I thought they did not last forever, but MIT proved me wrong. I had yet to decipher the true “free food oasis” nature

of the Sloan Business School and have since heard tales of students who have survived entire semesters without spending a dime on their own meals, tales that gained credibility in my eyes after having witnessed a group of people bearing Tupperware arrive at our new president’s inauguration reception.

I thought I was playing the game well, but my actions paled into insignificance compared to those of one of my roommates.

I, meanwhile, doled out my email address to all sorts of weird and wonderful clubs and societies at the Activities Midway in the pursuit of Skittles packets and mini Hershey’s bars, attended barbecues for any and every cause, and even chanced upon leftovers from a freshman families’ orientation. I thought I was playing the game well, but my actions paled into insignificance compared to those of one of my roommates, who not only seems to get at least two meals a day free of charge, but also frequently brings home entire packets of cookies and

chips plus assorted bottles of soda.

On a deeper note, I found myself observing the impish excitement of the freshmen starting out in college more than experiencing it myself. They brought back not-too-distant memories of moving out of the family home for the first time: the sense of complete freedom, limitless possibilities, and the slight homesickness nobody admits to.

This time around, I was expecting the same again, but it never came, at least not exactly the same. In many ways the freedom of being able to do whatever I pleased is stronger here than back when I was a freshman, or “fresher,” as first years are known in the U.K. Here I have a seemingly endless selection of classes, as opposed to Cambridge, where degree courses are much less broad in scope, and students have more time for numerous activities and pastimes.

However, this excitement was also tinged with the knowledge that work is more serious now that I’m closer to graduating than starting out — tough classes and none of this “pass/no record” for me — and that while in my head I’m still a wide-eyed kid straight out of school, in reality I’m not.

Time at college passes inescapably quickly, so if this piece is to have any sort of message, it’s simply the age-old adage of making the most of it while it lasts.

IT’S ALL GREEK TO ME

Studios sisters

Sororities provide an academic support network

By Clare Frigo

“It’s All Greek To Me” tells the individual stories of MIT sorority girls. Check in every Tuesday to hear a new voice. Clare Frigo is a senior in Course 10.

Academics is not the first word that comes to mind whenever you think about fraternities and sororities. Yes, these organizations exist on college campuses, but stereotypically that is where the connection to academics ends. MIT can be a scary place when it comes to classes, and some people think that joining a Greek organization could take away from their studies. Yet for me, joining a sorority has helped me so much academically, giving me access to people who guided me through MIT.

After pledging my freshman year, I immediately reached out to p-set with the rest of the girls in my pledge class, allowing me to get to know them better. I have spent the past three years studying with my sisters, and knowing that my sisters were with me through the all-nighters made everything more bearable.

During my sophomore year, I decided to take 5.07 (Biochemistry), but half way through the semester I realized that I wasn’t doing too well in it. I told some of my sisters that I was struggling, and later that week, I got an email from a sister who absolutely loved chemistry and biology and offered to tutor me throughout the semester. She definitely didn’t have to help, me but she took time out of her own work to aid me. While biochemistry still isn’t my strong suit, I definitely couldn’t have made it through that class without her help.

As an underclassman, whenever I had a question on a p-set or about a class, there were upperclassmen around who were always more

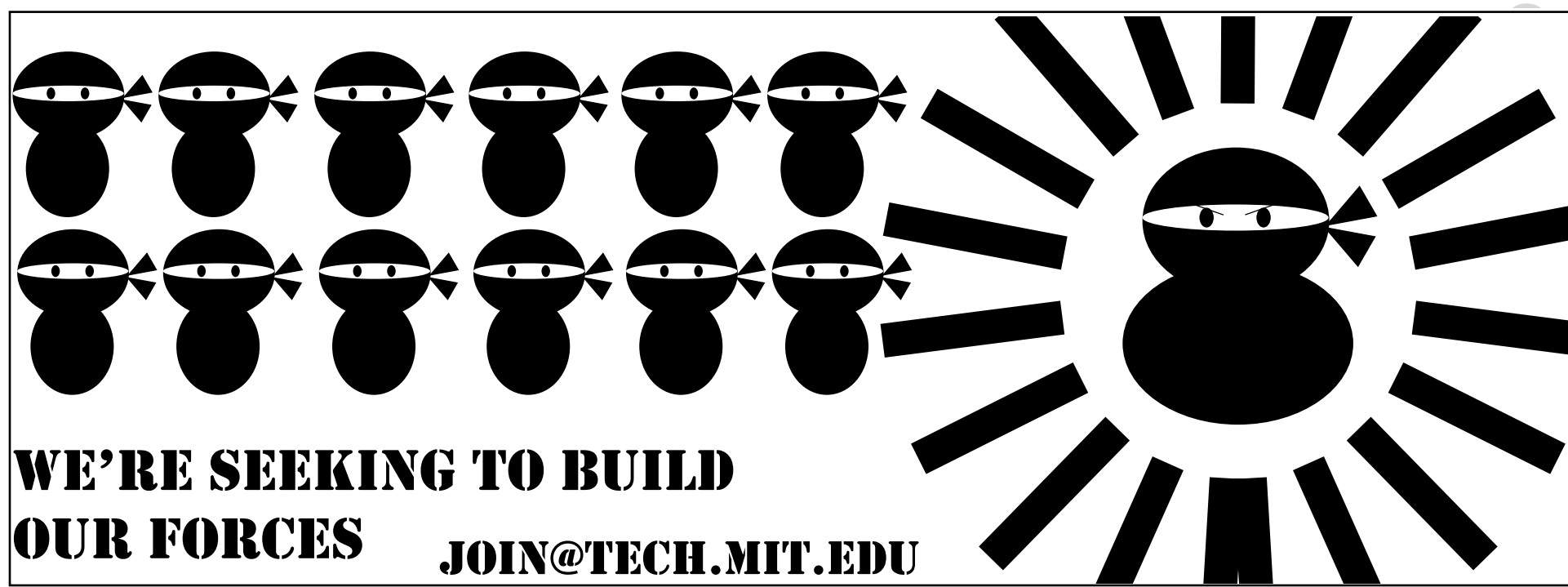
than willing to help me out. Now as a senior, the tables have turned and I’m one of the people that younger sisters come to if they have questions about homework. Since older sisters helped out so much, I want to make sure that I return the same amount of help.

Another aspect that can really help is having a house with lots of common space to meet up and study. Throughout my MIT career, I have had countless p-set parties in my sorority house. My p-set groups always had a place to somewhere work that didn’t feel like a library or a reading room but more like a home. There is group space for when you need to work on projects and quiet space when you need to focus. Finally, there are always sisters around who are willing to answer questions or just sit with you while you study and make sure you stay focused on your work.

One factor that keeps sorority women focused on their academics is the sorority GPA requirement. If a sister falls below that requirement, our scholarship chair works with that sister to create a plan to get her GPA back up. The scholarship chair also shares information and resources that would be beneficial for the sister. However, having sisters below the GPA requirement is a rare occurrence because sisters who are struggling tend to reach out to other sisters before it would have that great of an influence on their GPA.

Overall, I think academics are a very important part of sororities. While academics still may not be the first word that comes to mind when you think of Greek organizations, I don’t think I could have made it through MIT as unscathed as I did without the help of my sisters. MIT can be very overwhelming but whenever I needed help, my sisters were there to help me through it.

EVENTS	SEP. 25 – OCT. 1
TUESDAY	
(7:30 p.m. – 9:00 p.m.) Poutine Night, 21+ — Thirsty Ear Pub	
WEDNESDAY	
(6:00 p.m. – 8:00 p.m.) Urban Films: <i>Last Train Home</i> — 7-429	
(8:00 p.m.) <i>Pitch Perfect</i> preview — 26-100	
THURSDAY	
(5:00 p.m. – 6:30 p.m.) Starr Forum: screening of <i>How to Start a Revolution</i> — 66-110	
(7:00 p.m. – 9:00 p.m.) The Coffeehouse Lounge Presents: The Jessica Prouty Band — W20-Coffeehouse	
FRIDAY	
(7:00 p.m. – 10:00 p.m.) Southeast Asian Cultural Night — W20-Lobdell	
(7:00 p.m., 10:00 p.m.) LSC shows <i>Men in Black 3</i> (free) — 26-100	
(7:00 p.m. – 10:00 p.m.) Chinese Mid-Autumn Festival Party — Eastgate-Penthouse	
SATURDAY	
(10:30 a.m. – 4:00 p.m.) Caste: A Conversation — 10-105	
(8:00 p.m. – 11:30 p.m.) Persian Back to School Party — 50	
SUNDAY	
(4:30 p.m. – 6:30 p.m.) Choral Concert conducted by Jinwook Park — Kresge Auditorium	
(5:00 p.m. – 7:00 p.m.) Westgate Fall BBQ — W85	
MONDAY	
(6:00 p.m. – 8:30 p.m.) Digital Media Circle Event: A Connected Car is a Thoughtful Car — E51-145	
Send your campus events to events@tech.mit.edu .	



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CAMPUS LIFE CAMPUS LIFE CAMPUS LIFE CAMPUS LIFE CAMPUS LIFE

MIT daycare spaces will nearly double next year

David H. Koch, Charles W. Johnson make donation to support childcare at the Institute

Daycare, from Page 1

45 toddlers, and 60 preschoolers. Once a child is in the facility, they can stay until they outgrow the daycare.

As in the other MIT daycares, the staff of TCC Vassar will be employed by Bright Horizons Family Solutions, an international childcare provider that runs many daycare centers in the Boston area. According to Alden, MIT participates in the hiring process for its centers,

that the construction will go quickly.

The building is going to be “pre-assembled,” said Alden, it will be “designed for us and custom built.” The pieces will be shipped individually, “put on a foundation on site,” and assembled. Hopefully this will speed the construction process so the daycare is ready on time.

MIT purchased the building currently at 219 Vassar Street approximately six years ago, though it has been empty since then. Af-

all the security plans for the center, but it will be good.”

The waiting game

Getting a spot in daycare can be difficult — parents can wait anywhere from one day to two years for an opening in the program.

“The motivation for a new daycare center has been the pressure on existing centers to serve the MIT community,” said Bertschinger. “We don’t have enough daycare slots for the demand from faculty, students, researchers, and staff.”

The waiting list is long, said Bertschinger. “In fact, many people aren’t able to get daycare, they go to other [providers].” MIT will help those who don’t get a slot on-campus find daycare elsewhere.

The lack of daycare slots has been apparent for quite some time, and the planning for the Stata daycare began in the mid-1990s. The faculty newsletter from April 2006 mentions the need for an increase in daycare facilities, and in the 2011 Report on Women Faculty, a faculty member laments, “There are not enough daycare slots.” The length of the current waiting list has not been disclosed.

Why not go off-campus? One, it’s expensive. Two, having daycare nearby — especially for parents with infants — is critical.

“Daycare on-site was crucial to my survival,” said the unnamed faculty member in the 2011 report.

This is a common sentiment.

Hadley Sikes, professor in Chemical Engineering, has one child in TCC Stata.

“It’s a great benefit,” she said. “It’s much easier to focus on work knowing your child is nearby.”

The central location of Stata has provided a boon to many parents.

Robert A. Brown, previously provost of MIT and current president of Boston University, helped push TCC Stata through.

“I thought it was a perfect location to highlight the importance of being a family-friendly community,” he wrote in an email to *The Tech*. “It also serves the parents very nicely with the adjacent parking and drop-off areas.”

Slot distribution

After all the waiting, who gets a slot? It varies. 43 percent of the MIT daycare population are children of faculty, while staff have 23 percent, graduate students account for 20 percent, and postdocs 14 percent. See infographic page 9.

Sikes received her slot in daycare through a “provost slot,” but this is not the case for all faculty.

Every year, the provost can allocate 10 spots to distribute to faculty. These provost slots are primarily aimed at recruiting new women faculty, said Kaiser.

These provost slots are primarily aimed at recruiting new women faculty, said Kaiser.

According to Bertschinger, department heads can request slots for people they are looking to hire to make MIT more attractive to potential faculty.

“The provost slots are for faculty and prioritized to give maximum effect of recruiting and retention,” he explained. “One of the aims of on-campus daycare is to help our researchers and faculty to balance their work and life in a way that

promotes the success of young faculty and faculty from underrepresented groups.” In research areas where women are underrepresented, “access to convenient daycare on campus helps to facilitate their success and helps our success in recruiting.”

P. Christopher Zegras, an associate professor in Urban Studies and Planning, got off the waiting list for daycare in one day without a provost slot.

“I was expecting to have to look at other center by Bright Horizons,” he said. But he “got lucky.”

While the provost slots do go to faculty, and the majority of the parents are faculty members, TCC is not meant to be “an elitist daycare institution,” said Leigh H. Royden, a Course 12 (Earth, Atmospheric, and Planetary) professor who has been involved with expanding daycare at MIT in the past as associate chair of the faculty. “It’s definitely not all faculty kids. There are scholarships and subsidies for lower-income and student parents.”

Unfortunately for graduate students, the scholarships are being phased out.

Though graduate students are represented in MIT daycare, more slots are needed. “Six to eight percent of graduate students have kids, and an even larger number, between 25 and 30 percent, have a partner and may be considering having children,” said Brian Spatocco G, president of the Graduate Student Council (GSC). “Childcare on campus is a scarce resource, and the community shouldn’t be competing against each other for what’s a necessity.”

Spatocco was happy to hear

Daycare, Page 9

Like the other MIT daycares, the staff of TCC Vassar will be employed by Bright Horizons Family Solutions, an international child-care provider that runs many daycare centers in the Boston area.

but the staff hired are still employees of Bright Horizons. MIT has been using Bright Horizons for the past 10 years.

“We haven’t set our pricing policies,” said Bertschinger of the tuition rate for the new daycare. Alison Alden, MIT Vice President of Human Resources, mentioned that “rates on campus are pretty consistent,” hinting that TCC Vassar would likely be in line with the rest of MIT’s on-campus facilities (see infographic, pg. 1).

219 Vassar Street

The current building at 219 Vassar Street is undergoing asbestos abatement. Once this is finished, the building will be demolished. MIT Facilities could not be reached for comment on the timeframe of this demolition.

The daycare is scheduled to open by August 2013. MIT trusts

ter Koch’s donation, MIT searched through a variety of options for where to put the daycare.

“We’ve looked extensively,” said Alden. “This was the best site we could locate.”

The search began in Kendall Square, but focus shifted away from the area due to the high prices for leases. Having something convenient for campus is “an important factor for parents,” explained Alden. In addition, choosing a location in Kendall Square would have meant using part of a building instead of having a private facility, Alden continued.

Regarding the area’s safety — though homeless people can be frequently seen across the railroad tracks from the site — Alden is confident about the future daycare’s security. “The daycare center will be completely enclosed and gated,” said Alden, “We haven’t completed

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PHOTO BY JENNY VALENTI

Ad Council

This space donated by The Tech

Daycare to open August 2013

New two-story facility will be at 219 Vassar Street

Daycare, from Page 8

the news about TCC Vassar. “I am hopeful and expectant that some of this capacity will go to grad students and postdocs, or at least be available to them.”

Kaiser hopes that the new facility will provide relief to the heavy demand. Asked whether the increase in on-campus slots would lead to an increase in provost slots, Kaiser smiled.

‘I am hopeful and expectant that some of this capacity will go to grad students and postdocs.’

—Brian L. Spatocco G
GSC PRESIDENT

“The new facility is essentially going to meet all of the faculty needs,” he said. “I don’t even think it’s going to be an issue.”

Royden, who was instrumental in getting TCC Stata off the ground and names that accomplishment as one of the most important things she’s done at MIT, was happy to hear about the new center.

“It’s great, we don’t have enough daycare,” she said, “There still won’t be enough, but it’ll be better.”

“Getting the children’s center was not a woman’s issue,” she said, reflecting on the creation of TCC Stata. “It was an MIT issue.”

The gift

The wheels started to turn for TCC Vassar in March of 2011, when the Biology Visiting Committee, which had both Koch and Johnson

on it, was meeting at MIT. (Visiting committees report to the MIT Corporation on the state of the Institute about a variety of issues; they come to campus every two years.)

Late during the committee’s evaluation, they sat down with several biology postdocs for dinner.

“David Koch happened to be sitting next to a very lively, friendly, outspoken woman postdoc in Building 68 who at the time was visibly pregnant,” recounted Chris A. Kaiser PhD ’87, current provost of MIT, who was at the dinner because he was head of the Biology department, “She gave him an earful about [the state of daycare at MIT].”

When the visit of a committee ends, there is a verbal review with the committee speaking to the senior officials of the MIT Corporation. Koch and Johnson had to leave early and did not make it to this meeting last year.

Kaiser braced himself for another speech about how MIT needs more daycare that wouldn’t happen. He was pleasantly surprised.

Near the end of the meeting, Kaiser said, one corporation member stood up and said he wanted to talk about childcare. Kaiser braced himself for another speech about how MIT needs more daycare that wouldn’t happen. He was pleasantly surprised.

“A huge grin burst out on [the

corporation member’s] face,” said Kaiser, “and he said that Koch and Johnson had agreed to give a gift to MIT” — to fund an entire daycare center.

Slots at TCC Vassar will be filled on a first-come, first-served basis.

“We are grateful to David Koch and to Chuck and Jen Johnson for supporting this facility, which will be very beneficial in MIT’s efforts to recruit and retain the best faculty, staff, postdocs and graduate students,” President L. Rafael Reif said in a statement. “Time and time again, members of our community have told us how important, convenient, and high-quality childcare is in their decisions on where to build their careers. This new facility is an excellent response to that need.”

Information and Input on TCC Vassar

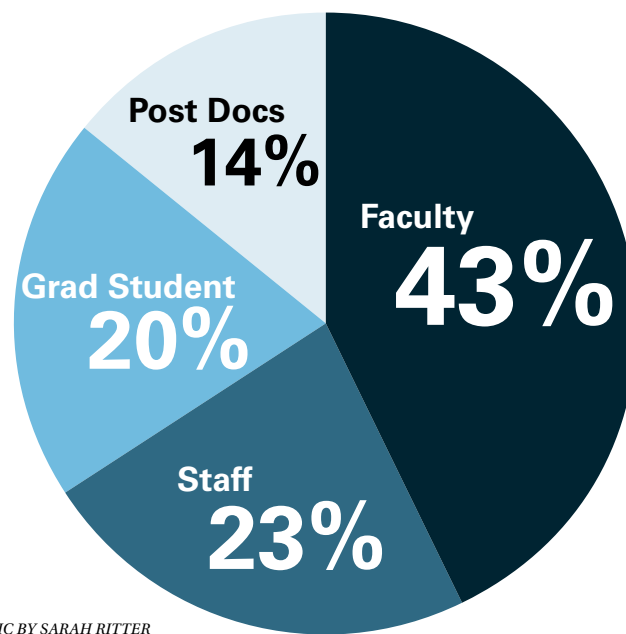
Slots at TCC Vassar will be filled on a first-come, first-served basis from the existing waiting list, which has a set of enrollment policies that can be viewed online at <http://hrweb.mit.edu/mitchildcare/enrolling/policies.html#enroll>.

Those looking for more information on TCC Vassar can check the website at <http://hrweb.mit.edu/mitchildcare/centers/vassar/>.

Bertschinger mentioned that the benefits committee is looking for advice and input from the MIT community, and encourages those who have suggestions for the daycare center to email ebocwork-life@mit.edu.

Distribution of MIT Daycare

broken down by family affiliation



INFOGRAPHIC BY SARAH RITTER



TIFFANY IRA HUANG—THE TECH

The Technology Children’s Center in the Stata Center takes care of around 80 children and employs 30 staff members.

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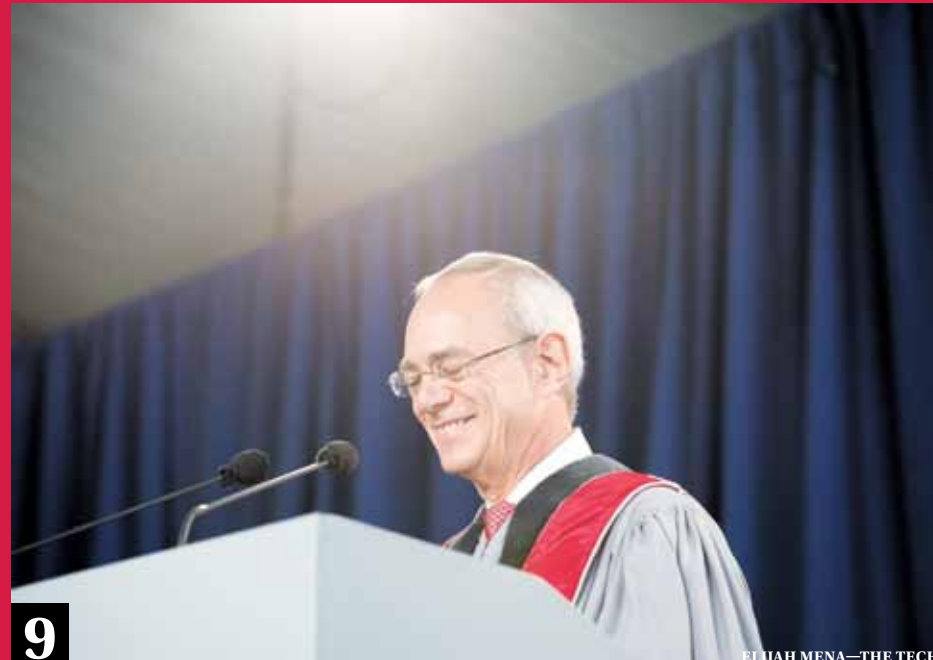


Reif's Inauguration!



8

ELIJAH MENA—THE TECH



9

ELIJAH MENA—THE TECH



1

ELIJAH MENA—THE TECH



7

ELIJAH MENA—THE TECH



6

IAN M. GORODISHER—THE TECH



5

ELIJAH MENA—THE TECH



4

ELIJAH MENA—THE TECH

Inauguration, from Page 1

Reif stepped onto the podium to deliver his inaugural speech after receiving and accepting the charter of MIT "with the full sense of the magnitude of my responsibility."

"I am just the steward of something much bigger than myself," Reif humbly stated, after thanking the audience for celebrating the inauguration with him. Centering his speech on the future of education, which was also the theme for Friday's symposium, he said that "higher education has reached a historically important, but difficult, crossroads—one full of opportunities, but also full of risks."

Calling upon the students, faculty, staff, post-docs, alumni, and friends to join him in the great historical challenge of the future of higher education, Reif said that MIT has "two choices—to take part... or watch from the sidelines." He immediately dismissed the idea of sitting out the challenge. Describing the path he believes MIT should take in confronting the future, he acknowledged that there are risks, especially financially, of higher education—but he believes that the opportunities available outweigh the dangers.

Though addressing the future of higher education is a daunting task, Reif will not do it alone. "MIT should help define the frontier" to the future, he said. "I want MIT to

play a leadership role—and I need your help."

"I am determined to find the right way to address these questions, and I will seek advice from across our community on how best to proceed," continued Reif, calling on "our brilliant army of nearly 11,000 students."

Apart from the academic and international aspects of education, Reif has "big dreams and goals for MIT, hoping everyone will 'feel at home at MIT' just as MIT is a home for him. Reif proposed a reciprocal relationship between the president's office and the community: "Keep teaching me, and I will keep listening and learning. All I ask, in return is the following: continue to be open-minded."

Acknowledging that he is still learning, Reif thanked the previous four MIT presidents, including the late Jerome B. Wiesner, for their influence and advice. Finally, Reif thanked his parents for their part in his journey to "the dream I never dared to dream."

Reif's last supportive words? "We have a great deal to accomplish, and the world is waiting. So let's get started."

Immediately following the ceremony, everyone went to the next tent for a reception, which was soon flooded with people. *The Tech* was able to talk with President Reif and MIT's 16th President, Susan J. Hockfield, for a few minutes.

When asked about his thoughts following the ceremony, Reif said he was "thrilled." "I'm just thrilled. At the reaction from the students, from everyone," he said.

Reif "has a great plan outlined. It's the start of a new era for MIT," added Hockfield. She mentioned that she will be taking a quiet year "on sabbatical, but I will be on call to help if [Reif] ever needs my advice." Hockfield was recently named a visiting professor at the Harvard Kennedy School.

Students were also receptive to Reif's inaugural address.

"His speech renewed and reaffirmed my love of MIT. I felt a swell of pride forming within me; during his address, I could not have felt more connected to the community of MIT peers and faculty," said Jennie O. Zheng '15. "What struck home for me were the comments Reif made about access to education to everyone, whether he be lucky enough to attend MIT or just a student with limited resources who thirsts for knowledge and wants improve his quality of life."

Freshmen were especially excited about Reif's inauguration—"I think it's cool that he was inaugurated during my freshman year," Jiwon J. Kim '16 commented. Sruthi A. Narayanan '16 called him "inspirational," and Tiffany B. Wong '16 agrees: "He has good ideas, and I think he will make MIT a better place."

A RHUMBA FOR RAFAEL REIF

By John H. Harbison

Rafael Reif—has a rhythm all his own.
Rafael Reif—is the one to set the tone.
He brings a new solution
to the techno revolution,
Rafael Reif—is already in the zone.

Rafael Reif—is the one to bring the heat.
Rafael Reif—is the one to keep the beat.
He brings a set of numbers
that will shake us from our slumbers,
Rafael Reif—has us dancing in the street.

Rafael, Rafael, Rafael Reif—Forget
procrastination,
the train has left the station.
He's got a new equation
to offer to the nation.

M.I.T. life—Rafael Reif.



2

ELIJAH MENA—THE TECH



3

ELIJAH MENA—THE TECH

1. President L. Rafael Reif spoke about the opportunities to use technology to improve education.
2. MIT's 14th president Paul E. Gray '54 spoke at the ceremony. In fact, the past three presidents prior to Reif were in attendance: Gray, Charles M. Vest, and Susan J. Hockfield.
3. The MIT Honor Guard, composed of several police officers, prepares to march into the ceremony.
4. The procession into Killian Court was led by James Champy '63, the chairman of the Presidential Search Committee. He is also a member of the MIT Corporation's Executive Committee.
5. The MIT Chorallaries sang a crowd-pleasing "The Engineer's Drinking Song."
6. James Champy '63 walks back through Killian Court after the ceremony, holding the golden ceremonial mace.
7. The MIT Ceremonial Brass performs.
8. The student percussion ensemble Rambax performs at the ceremony.
9. L. Rafael Reif smiles as he prepares to make a speech in which he spoke of the potential in online education and the value of residential education.

440 bids offered this Rush

By Anne Cai
NEWS EDITOR

During MIT fraternity Rush this fall, 375 rushees were offered a total of 440 bids (one person can receive more than one bid), which is an average of 1.18 bids per person, according to statistics provided by Interfraternity Council (IFC) president Thomas A. Anderson '13. As of Monday, 324 rushees (86.4 percent) have pledged. MIT's Panhellenic Association offered 173 bids this year, after 350 women registered for the first day of recruitment.

The total number of bids given during rush decreased from 455 in 2011 and 470 in 2010, but the number of students receiving one or more bid increased slightly from 369 in 2011 and 367 in 2010. As such, the average number of bids per rushee was lower this year than in recent years (1.23 bids per person in 2011, and 1.28 in 2010).

This year marked the return of Phi Beta Epsilon to Rush, after being barred from extending bids to new members in 2010. PBE ended up with the the most pledges this year, with a class that included freshmen, sophomores, and juniors, followed by Alpha Delta Phi.

"The return of Phi Beta Epsilon had no significant effect on the numbers," wrote Anderson in an email to *The Tech*.

"Speaking as both a Rush chair for my house (for both this year and the last) and on behalf of the IFC, it was a very safe, hassle-free Rush, comparable to last year," wrote Anderson, who continued to say that "only a few minor violations occurred."

One change to Rush this year was that, due to a regulation passed by the National Panhellenic Conference (NPC), women in sororities were not permitted to be Rush girls for fraternity Rush events. (Rush girls are friends of the house who help out with events during Rush.) The NPC's new policy, which was based on the Unanimous Agreement X — intended to protect sororities' single-sex status — was adopted by MIT Panhel and was in effect for Rush this year.

Aside from that, the only minor, but noteworthy, change to Rush this year was that the Kickoff and the Greek Griller were moved from Killian Court to Kresge Oval, "as a result of the loss of the Freshman Class Picture on Saturday from the shortening of Orientation," wrote Anderson.

JUNOT

Díaz

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JUNOT DÍAZ was born in the Dominican Republic and raised in New Jersey. He is the author of *Drown* and *The Brief Wondrous Life of Oscar Wao*, which won the 2008 Pulitzer Prize for Fiction. He is the Rudge and Nancy Allen Professor of Writing at MIT.



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Freshmen fare well on ASEs

18.03, 18.02 stand out with especially high pass rates

By Tushar Kamath

The Class of 2016 showed typical or better than average overall performance on the Fall semester Advanced Standing Exams (ASEs).

The most common ASEs that freshmen took were: 7.012/7.013 (Introductory Biology), 5.112/5.111 or 3.091 (Chemistry), 18.01 (Single-variable Calculus), 18.02 (Multivariable Calculus), 18.03 (Differential Equations), 18.06 (Linear Algebra), 8.01 (Classical Mechanics), and 8.02 (Electricity and Magnetism).

"The Chemistry ASE is our best attempt to summarize what every student should know coming out of the general chemistry," said chemistry professor Keith A. Nelson, the instructor for 5.112. As in previous years, the Chemistry ASE pass

rate of 13.8 percent (13 out of 94 passed) was the lowest among all the GIR ASEs. Previous pass rates for Chemistry ranged from 7 percent to 15 percent. This year marks a general trend upwards over the past six years, but nothing drastically different from the past two to three years.

The Biology ASE, with the second lowest pass rate of about 27.6 percent (21 out of 76 passed), showed a marked decline in the number of students passing out of 7.012. Yuqing Zhang '16 — a freshman who passed the Biology ASE and was a silver medalist in the 2012 USA Biology Olympiad National Finals — said, "It was very different from my high school biology experiences in terms of rigor and problem-solving, and I definitely

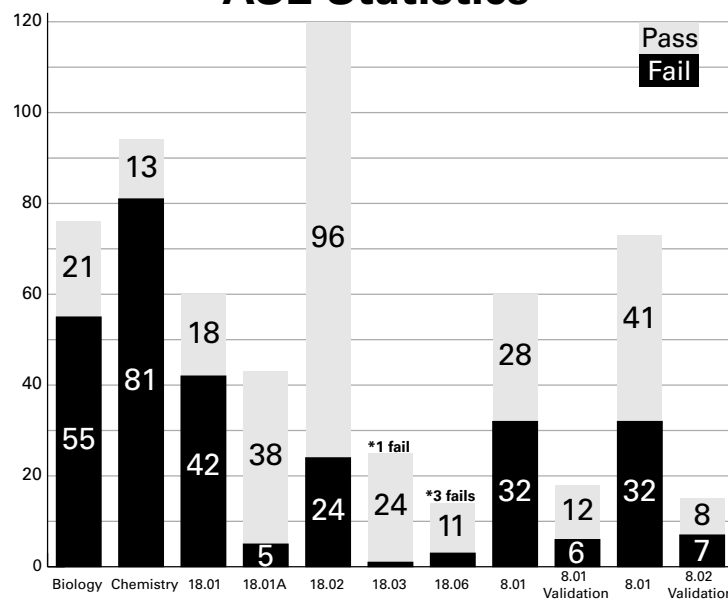
needed my experiences with biology outside of the classroom to pass."

This year's highest pass rates came out of the mathematics ASEs, particularly 18.03 — 96 percent passed. "If any student deserves to pass the exam, I am all for it," said mathematics associate professor Katrin Wehrheim, this year's 18.03 course instructor.

"I was very pleased to pass the [18.02] exam," said James J. Thomas '16. "I think it wasn't as difficult as the MIT OpenCourseWare (OCW) final exams." The 18.02 exam pass rate has stayed relatively consistent for the past three years, hovering around 80 percent.

But only 30 percent passed out of 18.01, less than half of last year's 62 percent.

ASE Statistics



INFOGRAPHIC BY SARAH RITTER

MIT-Singapore Info. Session:
Tues. Oct. 2nd 6 pm - E40-496

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JOHN A. HAWKINSON — THE TECH

Aaron H. Swartz, accused of mass downloading over two million documents from the JSTOR online journal archive with the intent to distribute them, exits federal court in Boston yesterday morning. Swartz appeared for an arraignment on a superseding indictment. He pleaded not guilty on all 13 counts. The case is currently in discovery and a jury trial preliminarily scheduled for Feb. 4 (MIT Registration Day, in fact).

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Career fair still has more Course 6 opportunities

Students waited in a long, wrap-around line to get into the annual Fall Career Fair

Career fair, from Page 1

plines — with undoubtedly highest representation in Course 6 jobs — were continually pleased with what they saw.

“We’ve seen a lot of interesting people, a lot of smart people,” Jerome Chen from Gameloft said. This is Gameloft’s first year at MIT’s career fair, and they’re mostly looking to hire interns. “We’re here to pick up great seeds and grow those seeds into big dreams.”

Like Gameloft, several companies at this year’s fair were selling their internship programs, not just their full-time positions.

“Today, we’re mainly focusing on our internship program,” Kapil Dilwali ’09, a 3rd year analyst with J.P. Morgan said. “A lot of great students that come through out internship program make great full-time candidates. There are a lot of great sophomores and juniors that we’ve seen today.”

Even more student-oriented, MIT’s own industry leadership training programs, Undergraduate Practice Opportunities Program (UPOP) and the Gordon-MIT Engineering Leadership Program (GEL), made appearances at the career fair. The two programs are there not just to establish their presence to visiting companies, but also to advertise to students.

“[We’re here to tell the students] if you don’t have these soft skills, you won’t be as successful as you would otherwise be,” said Bruce Mendelsohn, Director of Communications for GEL.

However, even with options not directed at graduating seniors at the fair, some students were still disappointed by the over-representation of companies looking for software engineers or other electrical engineering and computer science jobs (Course 6).

Some students were still disappointed by the over-representation of companies looking for software engineers.

“There are bio companies — you just have to spend a very long time looking for them,” said Rui Wang ’15, who is Course 7 (Biology).

John Kendall Nowocin G, facilitator of career week events, said that over-representation of Course 6 is still a problem, but it’s some-

thing that the career fair organizers have been trying to mitigate. They try to identify companies that don’t fall into Course 6, as well as encourage companies that might otherwise traditionally be typecast as being Course 6 to market other jobs they might have available.

“We’re not where we want to be, but we’re moving in the right direction,” Nowocin said.

The perception of career fair being largely Course 6 may also affect how companies interact with students. Jeffrey M. Sperling ’15 felt it was tough to find a job in a Course 6 field as a Course 8 (Physics) major.

“It’s tough to break the mold of your major and the mold of MIT,” Sperling said, “People assume you’re looking for a programming job, when you may want something else.”

Students at career fair seemed to be willing to deal with splitting their time between both events.

Despite this, many students believe that MIT prepares them very well for handling situations like the career fair and gives them the confidence they need to present themselves well.

“This is literally just Rush with companies,” Delian T. Asparouhov ’15 said, “I think MIT prepares you really well for this.”

In terms of the conflict with inauguration, the students at career fair seemed to be willing to deal with splitting their time between both events, or had resolved not to go to the inauguration at all.

“The ceremony is a cool event, but it seems detached,” Kirsten E. Olson ’14 said, “The president getting inaugurated will not determine if I get a job, but me being [at Career Fair] will determine if I get a job. I would have really liked to go to the inauguration. Hopefully, that can still happen”

Nowocin said that the conflict with inauguration didn’t seem to affect the atmosphere of the fair or the overall attendance, though they won’t know for sure until the final numbers are processed. He said that they’ve handled the situation the best they can and were pleased with how it turned out.

“Just because there was a conflict this year and things we’ve had to mitigate means next year will be even better,” Nowocin said.



WENLIANG LI

Students line up for the Career Fair outside of the Zesiger Center last Friday morning. The fair featured a large number of companies from a broad array of industries, drawing thousands of students to speak with employers and submit their résumés.

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- | | | |
|-------------------|-------------------|--------------------|
| Elijah, Course 1 | Greg, Course 8 | Ryan, Course 17 |
| Joy, Course 2 | Ethan, Course 9 | Jeff, Course 18 |
| Nina, Course 3 | Maggie, Course 10 | Jack, Course 19 |
| Jenny, Course 4 | Vince, Course 12 | Aislyn, Course 20 |
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Warren faces scrutiny over LTV Steel legal work

Mass. Senate candidate says coal miners were never at risk of losing health benefits

By Noah Bierman
THE BOSTON GLOBE

U.S. Senator Scott Brown has attacked Elizabeth Warren in recent days for her legal work on behalf of Travelers Insurance in an asbestos case, asserting that it undermines her reputation as a consumer advocate. But Travelers is not the only large corporation Warren has represented.

Warren also helped write a petition to the U.S. Supreme Court for LTV Steel in the 1990s, assisting the former industrial conglomerate in its fight against a congressional requirement that it pay millions of dollars into a fund for its retired coal miners' health care.

Her advocacy on behalf of a large corporation, opposing a mandate to pay for the health benefits of blue-collar retirees and their families, would seem to undercut her image as a middle-class champion, the central message of the Democrat's Senate campaign against Brown, the Republican.

But Warren's campaign argues that the retirees' benefits were not in danger, even if LTV had won its legal battle. And it argues that she was fighting for a principle that could protect less powerful people

who have claims against bankrupt companies. Warren had a small role, the campaign said, making about \$10,000 to write a Supreme Court petition. Warren, through her campaign, declined an interview request.

"Elizabeth is a bankruptcy expert and has fought for years for a strong bankruptcy system that makes sure retirees, employees, victims, and others can demand payment from insolvent companies and get a fair shake," spokeswoman Alethea Harney said. "In the LTV steel case, there was never any question that coal miners and their surviving spouses would receive their full benefits under the Coal Act. This case involved bankruptcy principles and who would pay what into the fund."

Warren did not argue the coal case in two lower courts, where LTV lost. Instead, she is listed on a petition to urge the Supreme Court to review the case, which the court rejected.

The Coal Act was passed in 1992, to finance a fund for the long-term health care of retired mine workers and their families.

The case involved the question of whether LTV, which was emerging from bankruptcy when the

Coal Act took effect in 1993, could be forced to pay out more money after its bankruptcy was completed. Warren argued that the company's obligations under the Coal Act should have been addressed as part of the bankruptcy.

Warren worried that in the future, similar claims would also have to be put off until the bankruptcy procedure ended, her campaign said. That could imperil victims of companies that shut down completely instead of reorganizing as LTV did, her campaign said.

But opponents, including the Clinton administration, argued that LTV and other companies challenging the statute were trying to take advantage of the bankruptcy laws to avoid their responsibility. And mine workers and their advocates also argued that if LTV or any other company tried to avoid paying into the Coal Act fund, the entire fund could collapse, jeopardizing health care for more than 100,000 retired coal miners and their dependents.

"No exception should be made to this act," Richard Trumka, then president of the United Mine Workers, told a congressional panel in 1993. "When it unravels, you will have roughly 200,000 miners

and beneficiaries out there that will lose their health care."

Senator John D. Rockefeller IV, of West Virginia, made a similar argument, telling the panel that retirees, whose average age was 77, could be left "out in the cold" if companies won any exemptions from the law.

Trumka, now president of the national AFL-CIO and a major supporter of Warren who campaigned with her in Boston Monday, said in a recent interview that "I said what I said" in 1993. But he argued that Warren would be a far better advocate for workers than Brown, who he said voted for a budget proposal that cut funding for mine safety and several other measures that would hurt workers and labor unions.

Brown's campaign said Monday that the budget cut was less than 1 percent and added that Brown has been a popular and strong advocate for union members because of his support for low taxes and less government spending.

Spokesman Colin Reed said Brown "is also the only card-carrying union member in this race," pointing to the former model's membership in the Screen Actor's

Guild and American Federation of Television and Radio Artists, which have since merged.

For coal miners, the guarantee of long-term health care has long been a priority, given the risks they face both in the mines and after they retire.

The coal industry paid for these guarantees through a series of industry-wide union contracts that created large health care funds.

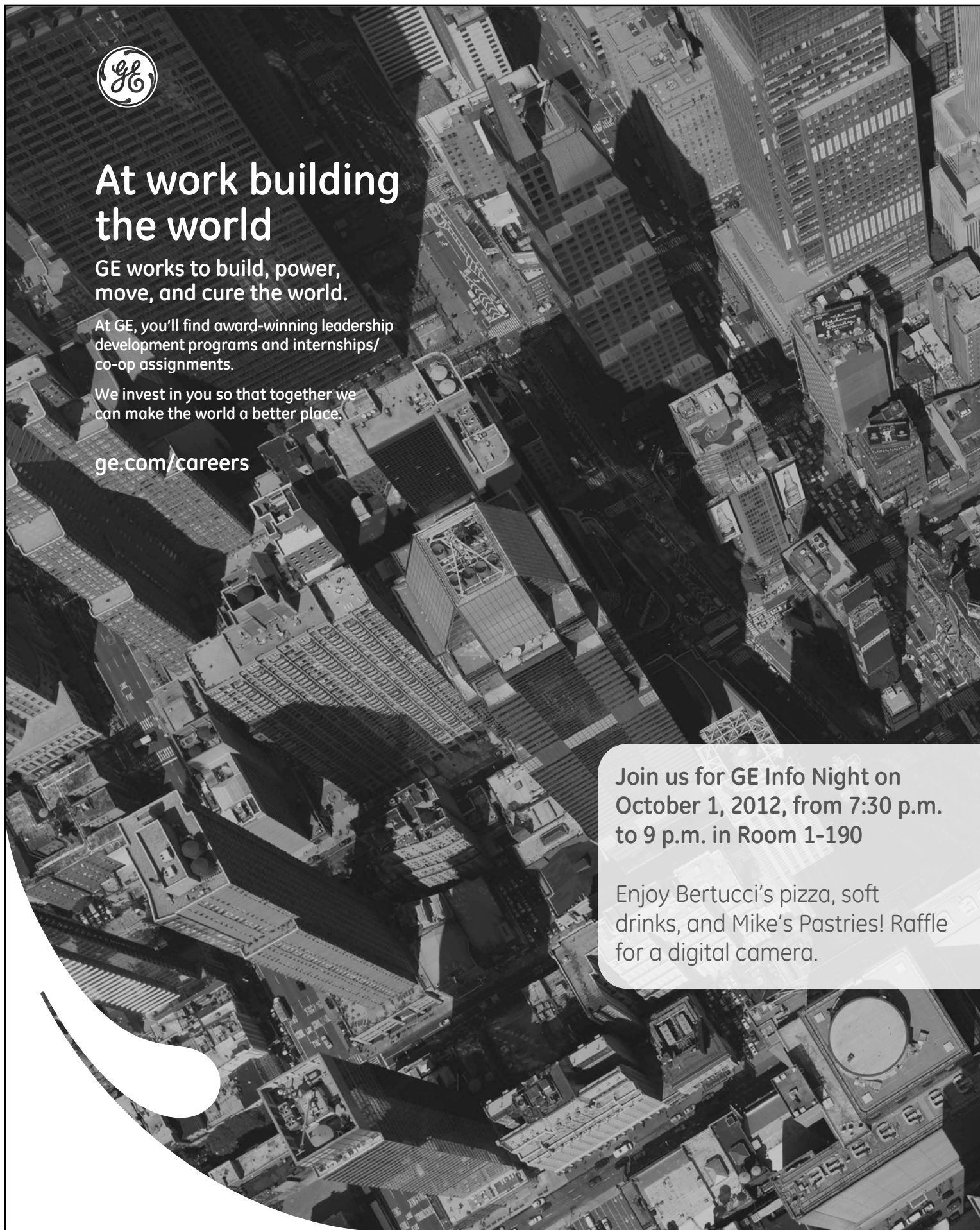
But companies that stopped actively mining coal could discontinue paying into the funds, leaving other companies to pay their retirees' health costs.

And the funds, known as benefit trusts, were at risk as health costs rose and coal companies began leaving the industry or declaring bankruptcy.

LTV got out of the coal business in the early 1980s and reorganized under bankruptcy laws in 1986.

The situation reached a crisis in the late 1980s, leading to lawsuits among coal companies and a 10 1/2-month strike against Pittston Coal Company in 1989.

In response, Congress passed the Coal Industry Retiree Health Benefit Act, known as the Coal Act, which President George H.W. Bush signed in 1992.



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Solution to Techdoku I
from page 13

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

Solution to Crossword
from page 12

AMMO	KISS	AUNTS
NEIN	ARCH	CHIRP
ISLE	TORO	TONER
SOLOMON	ANDS	SHEBA
EZINE	TEE	ALI
EON	TALC	CARMEN
DIET	MPH	ADO
SCRIMPS	SANDS	SAVES
FOE	NEE	ROMA
OPTFOR	DOSE	LOG
BAH	EMS	MATTE
STRESS	AND	STRAIN
EIEIO	RIOT	MICE
SNARL	IFHE	EROS
SATED	AFAR	DENS

Solution to Techdoku II
from page 14

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

Solution to Sudoku
from page 13

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

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EMILIA A. KELLISON-LINN

Runners take off from the starting line at the sound of the signal at the 2012 fall Beaver Dash on Saturday morning. The 5K run was part of the inauguration festivities for President L. Rafael Reif and benefits Habitat for Humanity.



JOSEPH MAURER—THE TECH

Esther Duflo PhD '90, the Abdul Latif Jameel professor of poverty alleviation and development, discusses MIT science and engineering against poverty at a public symposium on Thursday morning. The three-part symposium addressed "A Globally Engaged MIT" and highlighted the work done by MIT faculty, staff and students.

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