

Biology crowding is alleviated by lottery, additional offerings

Lander and Weinberg's 7.012 enrolls hundreds fewer than two years ago

By Rohan Banerjee

Two years after their introduction, the revised introductory biology classes and lottery system associated with the classes were marked as a success by MIT's biology department administrators.

The 7.015 and 7.016 Introductory Biology classes were introduced in the fall of 2013 to alleviate the burden on 7.012, the first variant of introductory biology, taught by Professors Eric Lander and Robert Weinberg PhD '64. Previously, 7.012 suffered from overenrollment and crowded lecture halls. Over 800 students enrolled in the class in the fall of 2012.

The introduction of 7.015 and 7.016 redistributed the biology general institute requirement (GIR) student population. What's more, the 7.012 class saw a general increase in the students enrolled. 451 students enrolled in 7.012 in the fall of 2013 and approximately 500 enrolled this semester, according to biology department undergraduate academic officer and associate professor, Dennis H. Kim.

Students who registered for 7.012 and 7.016 were again subject to a lottery that decided their final biology placement. According to Professor Kim, students sign up for their desired

class and those students who enrolled after the class reached maximum capacity would be moved to a different class. "Everyone who registers up front has an equal chance of getting into their desired class," said Kim. "At that point it's completely random."

According to Professor Kim, the results from last year indicated that the lottery and biology GIR expansion had fulfilled their purposes. He stated that the course evaluations from the biology classes in the 2013-14 school year were generally positive. According to MIT's online subject evaluations, in the fall of 2013, 7.012 received an overall rating of 5.1 out of 7 and 7.016 received an overall rating of 5.2 out of 7.

Professor Kim emphasized the uniqueness of each biology GIR. "The positive course evaluations reinforce that all of our 7.01 offerings are terrific classes, but they are different flavors, different takes on the same subject," stated Kim.

The 7.015 class, which is not being offered during this school year, features an advanced curriculum targeted at students with extensive backgrounds in biology, while 7.016 shares the same core curriculum as the other biology GIRs with a focus on biochemistry and molecular biology.



MEGAN PRAKASH

Students attend an info session in the Stata Center on Thursday given by Quora, one of the many companies presenting at the Career Fair. The Quora representative pitched the company, shared advice for prospective employees, and answered audience members' questions.

EdX launches new high school initiative

In a new initiative for edX, last Tuesday, the online platform spearheaded by MIT and Harvard launched 26 new courses aimed at high school students, according to *The Boston Globe*.

The new subjects offered include English, computer science, algebra, calculus, and several Advanced Placement (AP) courses, such as AP Environmental Science and AP Biology. According to edX, fourteen institutions were involved in developing these courses, including MIT, Rice, the University of California Berkeley, Georgetown, and public high schools such as Weston Public High School.

As a MOOC provider founded by MIT and Harvard, edX previously offered courses geared primarily towards university-level students. The new courses were partly prompted by a 2013 survey in

which 90 percent of users displayed interest in entry-level college courses. The pivot was also motivated by the fact that 150,000 of the 3 million users on the edX platform are high-school students.

According to edX CEO Anant Agarwal, a professor in electrical engineering and computer science at MIT, the high school initiative will address the "gap between college eligibility and preparedness."

The 26 courses were selected from a pool of 75 courses proposed by 22 institutions. Currently 22 high school courses are open, and the remaining four will open within the next few months.

All of the new courses are offered free of charge but require a fee to obtain a verified certificate. These verified certificates provide proof of the course completion for job and college applications.

—Zareen Choudhury

OBITUARY

Catherine 'Kay' Stratton, wife of MIT president, dies

Stratton honored for arts benefaction on campus

By MIT News Office

Catherine N. "Kay" Stratton — the wife of former MIT President Julius A. Stratton, and for decades a great friend of the arts at MIT — died Sept. 10 at her beloved farm in South Newfane, Vt. She was 100 years old.

Born in Los Angeles, Stratton was brought up in Charlottesville, Va., and attended the University of Virginia's Mary Washington College before enrolling in Wellesley College after her marriage in 1935.

Long after serving, from 1959 to 1966, as the wife of MIT's 11th president, Stratton made extensive contributions to the Institute, enriching the lives of students and faculty through her dedication to the arts and her commitment to a more vibrant campus.

"Kay never stopped imagining ways that MIT might become a better place," says Lawrence S. Bacow, president emeritus of Tufts University, who served

as MIT's chancellor from 1998 to 2001. "I first met her shortly after I became chancellor, when she came to talk to me about creating senior housing for MIT's retirees. Later she enlisted me as a participant in the lecture series that she organized annually: Kay assembled leading experts from the Institute and beyond to focus attention on major issues of the day. Kay was a gem: the youngest, liveliest centenarian I have ever known."

Stratton co-founded the MIT Arts Committee in 1960 to foster the creative and performing arts at MIT, and to "bring to MIT a new emphasis on art as a necessary counterbalance to technology." The Arts Committee's recommended policy, still in place today, designates that 1 percent of every construction budget at MIT be designated for art for that building.

The Arts Committee was later ex-

Stratton, Page 10

Locals in Ireland anticipate first visit from Walsh as Boston mayor

Tour, seen as return to roots, includes region with Mass. ties

By Andrew Ryan
THE BOSTON GLOBE

In honor of the homecoming, the family house in Rosmuc, an Irish-speaking village of 500 in the craggy, desolate hills of Connemara, got a new coat of paint. A nearby church planned a special Mass for the return of a man described as "Connemara's Kennedy."

Further out the coast, the village of Carna is preparing for what a local newspaper portrayed as "the biggest day in its history." They are painting too, and mowing grass along the stone walls.

"My niece asked the other day, 'What's happening? Everybody is painting and fixing all around,'" recounted Maureen Senuta, an Irish immigrant from Carna who left 40 years ago for Dorchester but keeps in touch with home. "Somebody said, 'The mayor is coming! The mayor of Boston is coming!'"

Martin J. Walsh will return to Ireland on Friday for his first visit since being elected mayor of Boston.

"They're preparing as if it was the pope coming," Senuta said. "It's a big thing. They're

Walsh, Page 9

IN SHORT

The Fall Career Fair is in the Johnson Athletic Center today from 10 a.m. to 4 p.m. There are no classes on Friday. Information and registration are at career-fair.mit.edu.

Minor Completion Date is today. Final-term seniors must submit their Minor Completion Form. There is a \$50 late fee.

The MIT Blood Drive is in La Sala de Puerto Rico from Mon., Sept. 22 to Fri., Sept. 26. It is held from 1 p.m. to 6 p.m. every day except Tues., Sept. 23, on which it is from 8 a.m. to 1

p.m. Information and appointments are at web.mit.edu/blood-drive.

The Bicycle Auction is at 290 Albany Street today with a preview at 11:30 a.m. and the auction beginning at noon. Cash or local check payment is required.

The deadline for UROP Direct Funding applications is on Thursday at 5 p.m. Applications are at sisapp.mit.edu/uropweb/home.mit.

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

RESUMES BY THE TIM

Won't fit in your nice folder.
FUN, p. 6

UPPERCUT

Who really needs those booths?
FUN, p. 5

TECHDOKU

Skip career fair and solve our puzzle.
FUN, p. 5



JOB HUNTING STRATEGIES

Job searches. QED.
FUN, p. 6

SUDOKU

Techdoku and Sudoku on the same page? You betcha.
FUN, p. 5

SECTIONS

World & Nation . . . 2
Opinion 4
Fun Pages 5
Sports 12

New Islamic State video features British hostage group spokesman

THE NEW YORK TIMES

“Join me for the next few pro-

Appearing tired and under stress,

The video, like those before it, seems designed to forestall international military action against the IS. But while the previous videos threatened revenge for attacks, Cantlie's message seemed crafted to capitalize on reluctance in the West to get involved in a new war. Analysts suggested that the Islamic State had many reasons to shift away from beheading videos. Nonviolent videos are more likely to be seen by a wider audience, and the use of a Western journalist instead of an IS fighter to deliver the message makes the group look more polished.

—Thomas Erdbrink and Rick Gladstone, *The New York Times*

THE NEW YORK TIMES

"We've been like a frog in the pot as the water heats up," said Allan Coukell, the senior director for drugs and medical devices at Pew. "Now the administration is saying we can't keep going like this, that we have to tackle this crisis, and here's a road map."

Sunny skies in store

STAFF METEOROLOGIST

Sunday's warm weather will be especially pleasant in comparison to that of September 21, 1938, when the Great New England Hurricane swept across the region as a Category 3 hurricane. That storm, which had sustained winds of 115 mph and resulted in over 600 fatalities, remains one of the worst storms ever to strike New England.



Weather Systems	Weather Fronts	Precipitation Symbols			Other Symbols
H High Pressure	Trough		Snow	Rain	Fog
L Low Pressure	Warm Front	Showers	▽	▽	Thunderstorm
⌀ Hurricane	Cold Front	Light	*	•	Haze
	Stationary Front	Moderate	**	••	Compiled by MIT Meteorology Staff and The Tech
		Heavy	***	••	

Uppercut by Steve Sullivan



STEVE SULLIVAN SEPTEMBER 2014



Sudoku

Solution, page 8

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

9+		36x			30x
5x				4	
	30x	12x	12+	12x	
12x					3
	1-			4-	
3		240x			

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.

Heavy Going by Fred Piscop

Solution, page 8

ACROSS

- 1 Victoria’s Secret buy
4 Took action against
8 Prayer book
14 Ouija board word
15 New Age Grammy winner
16 Provoke
17 SUV options
18 Management level
19 Things in rings
20 Summer Olympics event
23 Thereabouts
24 __ pinch (if necessary)
25 Western scenery
28 No longer an issue
31 Find a job for
33 Encouraging word
34 Barnyard brooder
35 Macroeconomic fig.
36 Miffed state
37 Like a supporting wall
40 Poke fun at
42 Browser bookmark, for short
43 Noteworthy time
44 “Unaccustomed as __ . . .”
45 Security threat
46 Eyes closely
50 Backspace over
52 Affectionate sound
54 2007 erupter
55 International cooperation of a sort
59 Gather at harvest
61 News morsel

- 62 Drilling setup
63 Use yeast in
64 Windless
65 Plucked instrument
66 They have titles
67 Sailor’s patron saint
68 Launching area

DOWN

- 1 In pairs
2 Longfellow subject
3 Pitch in
4 Actor Rogen
5 Fighting force
6 Pupil protector
7 Spacey role in a 2004 biopic
8 Light rain
9 By the deadline
10 Treat with tea
11 Monotonous voice
12 Absorbed, as costs
13 French article
21 Was on a roll
22 Regional animals
26 “Float like a butterfly” guy
27 In position
29 Place to graze
30 Ultimately become
32 Indulgent outing
35 Hair slickener
36 Trap setter
37 Stew ingredient
38 __ Canyon National Park
39 Indignation

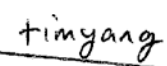
1	2	3		4	5	6	7		8	9	10	11	12	13
14				15					16					
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20			21					22						
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28				29	30			31	32			33		
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40	41				42				43					
44				45				46				47	48	49
50			51			52	53				54			
		55			56				57	58				
59	60						61					62		
63							64					65		
66							67					68		

- 40 Bag closer
41 All-out conflict
45 Waitperson
46 Of mail
47 Provoke
48 Pro golfer Sorenstam
49 Identified in a Facebook photo

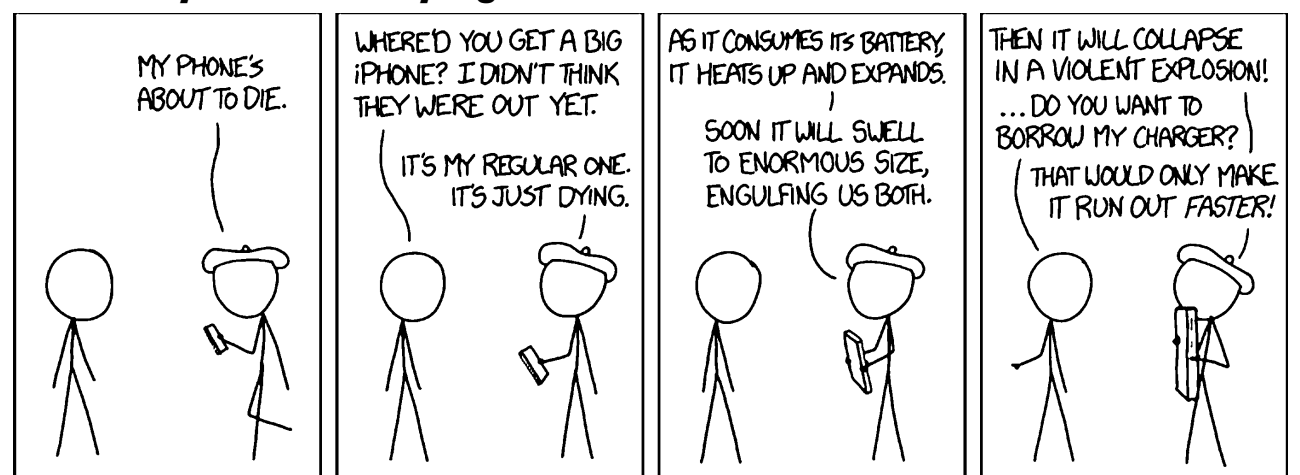
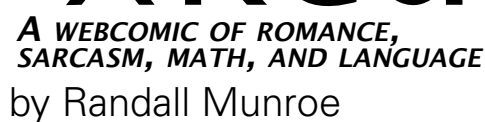
- 51 Urbane
53 In reserve
56 Comfy retreats
57 Big wheel at sea
58 Combat supply
59 __-pitch softball
60 Take an ax to

BY ERIKA TRENT

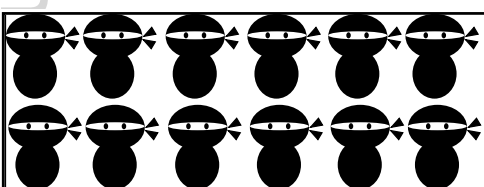
CAREER FAIR: WHERE STUDENTS REDISCOVER THEIR ANCESTRY



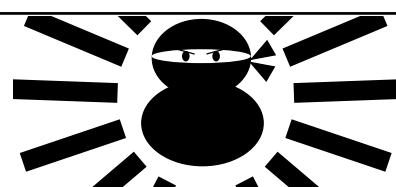
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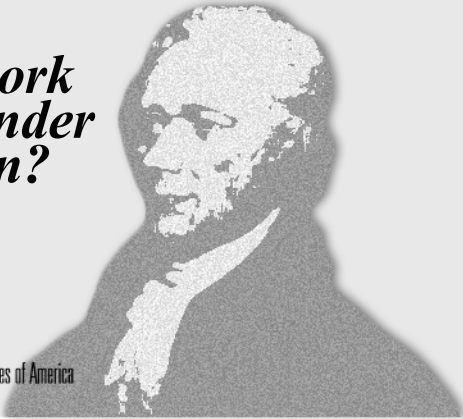
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Solution to Crossword

from page 5

B	R	A	S	U	E	D	M	I	S	S	A	L			
Y	E	S	E	N	Y	A	I	N	C	I	T	E			
T	V	S	T	I	E	R	S	T	O	N	E	S			
W	E	I	G	H	T	L	I	F	T	I	N	G			
O	R	S	O	I	N	A	M	E	S	A	S				
S	E	T	T	L	E	D	U	S	E	O	L	E			
			H	E	N	G	N	P	S	N	I	T			
			L	O	A	D	B	E	A	R	I	N	G		
T	W	I	T	U	R	L	E	R	A						
I	A	M	S	P	Y	P	E	E	R	S	A	T			
E	R	A	S	E	C	O	O	E	T	N	A				
			B	U	R	D	E	N	S	H	A	R	I	N	G
S	H	E	A	V	E	I	T	E	M	R	I	G			
L	E	A	V	E	N	C	A	L	M	U	K	E			
O	W	N	E	R	S	E	L	M	O	P	A	D			



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Come visit us on September 19, 2014 for the MIT Career Fair 2014 at Johnson Athletic Center from 10:00 a.m. to 4:00 p.m.



Solution to Sudoku

from page 5

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

Solution to Techdoku

from page 5

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

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Walsh to travel with entourage for over 800 miles in Ireland

Trip will publicize Walsh wading into the volatile politics of the Irish

Walsh, from Page 1

very proud.”

Over 11 days, Walsh will traverse the northern half of the island, driving some 800 miles from Galway to Donegal, then heading to Belfast and to Dublin. He will be feted by Irish officials, will tour businesses with ties to Boston, and will visit the shrine at Knock, where he prayed as a boy after being cured of cancer.

Walsh will also wade into the volatile politics of the sectarian divide in Northern Ireland and appear on a national television show in Dublin that is the Irish equivalent of “The Tonight Show.”

But the heart of the trip will be in rural Connemara, returning to the farmland, bogs, and rocky shore where he spent summers as a child.

Over 11 days, Walsh will traverse the northern half of the island, from Galway to Dublin.

His parents emigrated separately in the 1950s and met at a Boston dance hall on Dudley Street.

They frequently brought their two boys back home and the children forged indelible bonds with their Walsh relatives as well as O’Malleys, Mulkerrins, Cotters — aunts, uncles, cousins, and neighbors.

“While the president of the United States coming to Ireland is a very big thing, this is more personal. Here’s a laddie coming back to his roots,” said Mayor Donal Lyons of Galway, who will host a reception for Walsh at City Hall. “I’m sure it’s a proud moment for his mum that they are coming back nearly as heroes to the place she was born.”

There is a well-worn path to Boston from Connemara. The region has a rugged beauty, but it has some of the poorest agricultural land in Europe. Work has long been scarce. For generations, people have left in search of economic opportunity, and many followed their grandfathers, aunts and uncles, or siblings to Massachusetts.

“Boston to the west of Ireland and particularly Connemara is really looked at as their capital,” said Seosamh Cualáin, a member of county council who lives in Rosmuc. “There are so many people from Connemara that go to Boston. I had three uncles there myself. They’re all buried in Boston.”

Walsh will also spend three days in Northern Ireland, the corner of the island that remains part of the United Kingdom.

He will meet relatives of victims of the Ballymurphy Massacre, in which 11 civilians were killed in 1971 by the British army. He will also visit the Apprentice Boys Museum, a pro-British institution in Derry, and tour East Belfast, a unionist stronghold.

“We think it’s important that he sees every side and hears every story,” said Máirtín Muilleoir, the

former lord mayor who signed an agreement with Walsh that made Belfast and Boston sister cities. “There’s no sense in coming here and just meeting people who are Irish nationalists. I think he’ll be moved by stories on all sides.”

Walsh’s entourage will be intimate. His mother is already there. The mayor will be accompanied by his longtime girlfriend, Lorrie Higgins; his corporation counsel, Eugene L. O’Flaherty, a close friend who also spent significant time in Ireland as a child; and O’Flaherty’s wife.

Sergeant Winifred Cotter, the head of Walsh’s police security detail, will also be on the trip. Cotter is Walsh’s cousin and her mother grew up in Carna, according to Connacht Tribune.

The overwhelming majority of the trip will not be paid by tax dollars, according to press secretary Kate Norton. Walsh and his companions will use their own money and campaign donations, Norton said.

Cotter’s travel expenses will covered by the city because she will be working as Walsh’s security. Norton said she could not provide an estimate before the trip of how much it will cost.

Walsh has been to Ireland up to 30 times and as recently as 2010.

He can remember visiting as early as 1972, when he was 5 years old. The family would go every few years. His mother often took the two boys for the summer and their father joined them for a week.

The day Walsh formally announced his candidacy in April 2013, he joked about the excitement building in Ireland for his run for mayor. It was all over the radio, and a local newspaper printed a picture of Walsh with President Obama under the banner headline: “Great for Galway.”

Walsh will also spend three days in Northern Ireland, the corner of the island that is part of the UK.

“If I could get some votes from there,” Walsh said over lunch that April. “That’s my unnamed precinct in Connemara.”

Like all trips back, Walsh will relish the taste of Irish sausage, texture of fresh brown bread, and sips of Cidona, a sparkling nonalcoholic apple juice.

He will visit his grandparents’ graves, think about his father, who died in 2010, and replay memories of his childhood.

“I’ll go back to the pier at the end of the road and I’ll take a walk through the fields and think about being a kid,” Walsh said this week.

But this will be special, Walsh said, returning for the first time as mayor.

“There’s so much pride,” he said. “I clearly didn’t grow up there, but in a sense it is going home.”

MIT–CHINA & SINGAPORE INFORMATION SESSION



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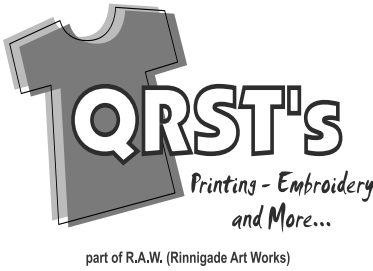
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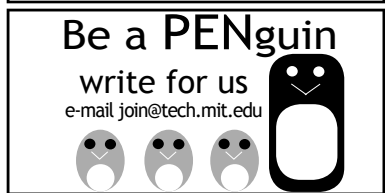
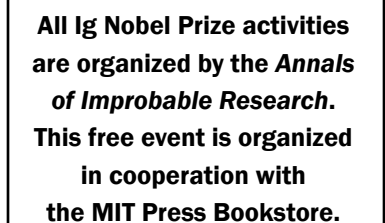


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Stratton, from Page 1

Stratton's vision, energy, and wide-ranging interests spurred others to activity within the MIT community. "It would never occur to me to just sit and rock," she once said. "I adore putting ideas and people together."

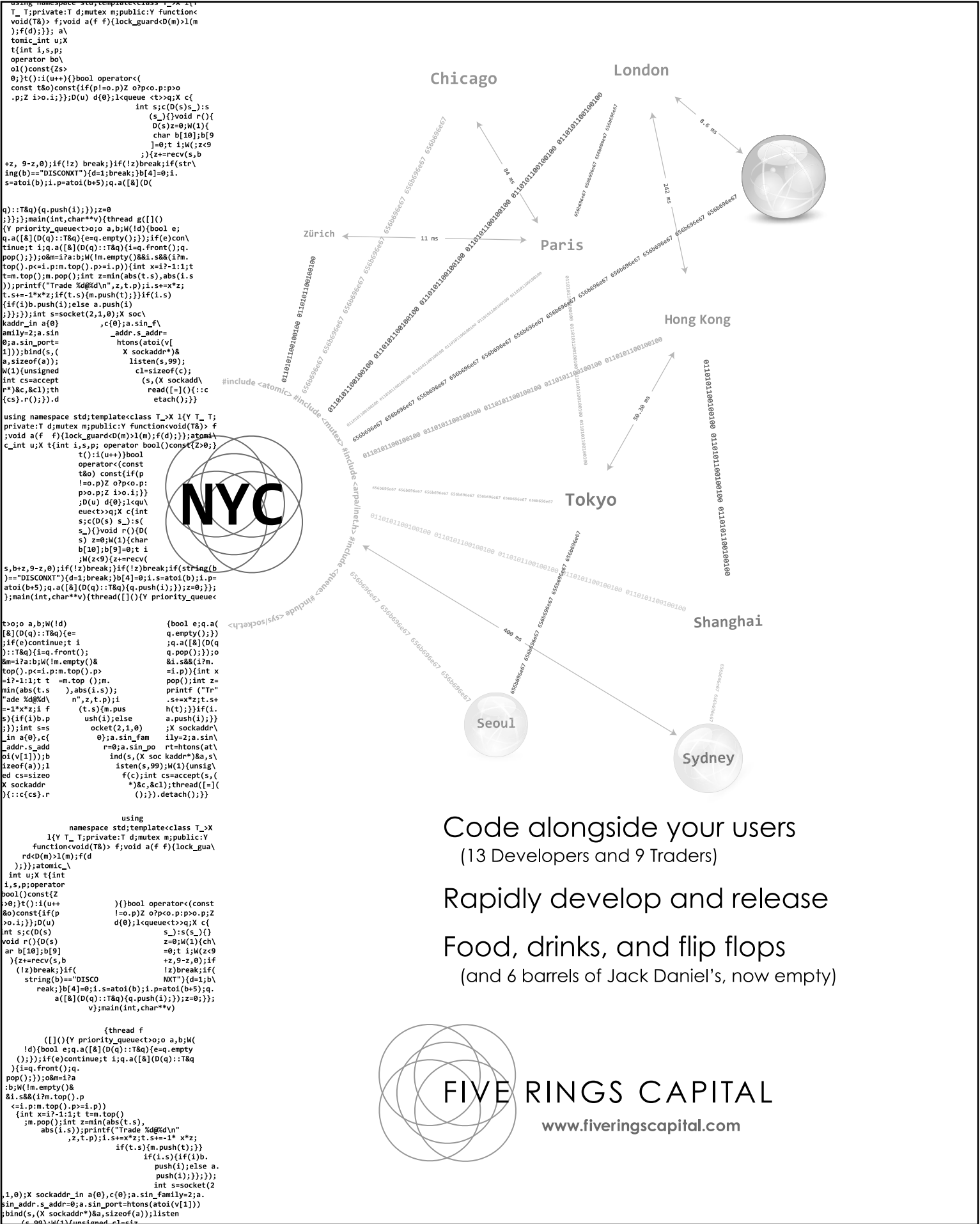
In 1988, Stratton created the “Aging Successfully” lecture series at MIT to explore health topics of concern especially — but not exclusively — to an aging population. MIT created a Lecture on Critical Issues series in her honor in 1994, which has included such varied topics as Internet security, population growth, control of nuclear weapons, and microfinance.

While living in New York when her husband was chairman of the Ford Foundation from 1966 to 1971, Stratton served on the board of the Bank Street College of Education. New York Mayor John V. Lind-

with family and guests — no one is spared the vicious slash of her ping-pong forehand or the merciless drive of her croquet mallet."

Stratton is survived by three daughters: Cay Stratton, who lives in Chapel Hill, N.C., with her partner, Barry Popkin; Cary S. Boyd, of Newbury, Mass., and husband Lew Boyd; and Laura S. Thoresby, of Kent, England, and husband Jerry Blanchet. She is also survived by a granddaughter, Caroline Boyd Kronley; her husband, Neal Kronley; and a great-granddaughter, Sarah Finch Kronley, all of Brooklyn, N.Y.

Burial will be private, with a memorial service to be held at MIT at a later date. Memorial contributions may be sent to the Council for the Arts at MIT or to Grace Cottage Hospital in Townsend, Vt.



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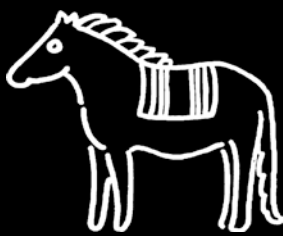
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MIT and Roger Williams soccer teams tie, 1-1

After double overtime, MIT and Roger Williams play to a tie for second straight year

By Matt Noonan
DAPER STAFF

For the second year in a row, MIT and Roger Williams University concluded their match in 1-1 tie on Tuesday afternoon at Roberts Field at Steinbrenner Stadium. Morgan K. Moroi '16 netted her initial goal of the season at 3:29 following a pass from Ashley J. Peter '15 before Roger Williams countered with a strike by Haley Carignan roughly six minutes later.

Roger Williams, currently ranked 10th in New England in the latest National Soccer Coaches Association of America (NSCAA) regional poll, outshot MIT, 11-10, and held an advantage in corners, three to one. MIT goalkeeper Lauren Ullmann '16 turned away four shots, including an attempt at 99:25 in the first overtime period by Jessica Valenti. Sydney Martin '18 deflected four shots and received some help from her defense, which blocked two attempts.

Moroi put the Engineers on the board first following a pass from Peter, who slid the ball through two defend-

ers outside the Roger Williams box. Moroi collected her teammate's pass and fired her only shot of the contest into the back of the Hawks' net. Roger Williams responded at 9:44 as Carignan registered her second tally of the season following a pass from Kristen Tetreault '15 in the box.

Roger Williams tried to push ahead with six second half shots that were deflected by Ullmann and Tech's defense. Ambika Krishnamachar '15 recorded two of her three shots in the second half, while Anna P. Zukowski '17 saw her only attempt sail over her opponent's goal at 48:15.

In overtime, Roger Williams attempted to net the game-winner off a corner kick at 92:41 by Kristen Casey '17 that sailed out of the box. MIT's lone chance came at 104:00 in the second overtime as Elena A. Gianotas '15 fired a shot that was blocked by Paige Byrne '18.

Both MIT and Roger Williams return to action on Saturday, September 20 as the Engineers travel to WPI for its first New England Women's and Men's Athletic Conference (NEWMAC) match at 11:00 a.m., while the Hawks host Western New England at 1:00 p.m.



Ambika Krishnamachar '15 maneuvers the ball in Tuesday's game against Roger Williams University. The game ended in a 1-1 tie after double overtime.

MIT defeats WPI 3-0 in NEWMAC opener



SHERRY REN—THE TECH

Meryl E. Gibbs '16 goes for the ball in the NEWMAC Opener against WPI on Tuesday. The team defeated WPI 3-0.

MIT defeats Lasell College in non-conference match

Engineers gain huge advantage in shots, 37-3

By Mindy Brauer
DAPER STAFF

A strong performance by MIT's defense that produced a 37-3 advantage in shots helped the Engineers defeat Lasell College, 2-0, in a non-conference field hockey game on Tuesday afternoon. The

Cardinal and Gray's second straight shutout lifted its ledger to 5-0 on the season.

After a series of shots that were either blocked or saved, MIT broke through after 7:22 expired. Elizabeth A. Dethy '15

found Morgan O'Brien '17 at the far post who then slipped the ball past the goalie for her first marker of the season. The Engineers controlled the action for most of the half as they recorded four penalty corners and six shots on goal during the next 17 minutes. The Lasers' first dangerous opportunity materialized with 8:54 on the clock when they received a penalty corner but the ensuing shot was wide.

MIT's stingy defense along with its persistent attack returned in the second half; however, Lasell was up to the challenge as it fought off eight penalty corners and 15 shots, 10 of which were on goal. The

Engineers eventually ended the stalemate when Molly McNamara '16 knocked in the rebound of Tate E. DeWeese's '17 shot that was initially saved with 10:13 left to play. Goalie Paige V. Kennedy '16 preserved the shutout for the visitors by turning away two shots down the stretch.

Evie S. Kyritsis '16 did not have to make a save in the first 35 minutes of action before making way for Kennedy. As a team, Tech enjoyed a 24-2 advantage in shots on goal and an 18-2 margin in penalty corners.

Next up for MIT will be its NEWMAC opener against Springfield College on Saturday, Sept. 20 at Jack Barry Field.

UPCOMING HOME EVENTS

Saturday, September 20

Sailing vs. Hatch Brown Trophy

Field Hockey vs. Springfield College

Men's Soccer vs. Emerson College

Women's Tennis vs. Mount Holyoke College

Sunday, September 21

Sailing vs. Hatch Brown Trophy

9:30 a.m., Charles River

1 p.m., Briggs Field

1 p.m., Steinbrenner Stadium

1 p.m., DuPont Tennis Courts

9:30 a.m., Charles River

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