Four MIT seniors are among Marshall Scholarship winners
Each will have opportunity to study at the U.K. university of their choice after MIT graduation

By Tushar Kamath
ASSOCIATE STAFF EDITOR

Four MIT seniors recently received the prestigious Marshall Scholarship. According to the MIT News Office press release, these undergraduates — Kirin Sinha, Catherine E. Koch, Colleen Loyauchan, and Grace Young — will join the 30 other U.S. winners in pursuing a graduate degree for two years at the U.K. institution of their choice.

Kirin Sinha

Kirin Sinha, an MIT senior currently pursuing a degree in Theoretical Mathematics and Electrical Engineering and Computer Science, plans to study both mathematics and computer science at Cambridge University.

Kirin has been working with Professor John W.M. Bush in applied math, studying the wave behavior of water droplets. “I wanted a different experience in graduate school to broaden my experience,” said Sinha about her motivation on pursuing the scholarship. “Cambridge University is a school steeped in the tradition of mathematics dating back hundreds of years, and the Marshall Scholarship enables me to study there.”

Sipser appointed Acting Dean of the School of Science

Effective Dec. 8, 2013, Michael Sipser, head of the Department of Mathematics, will become the interim dean of the School of Science according to an MIT News Office press release.

Sipser is currently the John F. Nash Professor of Mathematics at MIT.

According to MIT, “Sipser is a great choice, and I look forward to working with him.”

On Monday, Dec. 9, students in 2.009: Product Engineering Processes, presented their final projects in Kresge Auditorium. The students worked together in teams of six throughout the semester to develop products and build prototypes related to the wellness-oriented theme dubbed “Be Well.” Each team was given a $6,500 budget to design, produce, and present their prototype.

The event, a well-organized production complete with live music, began promptly at 7:30 p.m. with a musical performance by organist Epp Sonin.

MTBA expands Thursdays

The MTBA announced last week a one-year pilot late-night service operating on Saturdays and Sundays beginning this spring. Expanded hours will not run on Friday nights. According to the Boston Globe, the new service will run until 3:00 a.m. with the last train leaving the city at 2:30 a.m. and will include all the main lines, the Silver Line, and 15 bus routes (4, 15, 25, 33, 28, 32, 39, 57, 66, 71, 73, 77, 116, and 17C). Train lines will remain the same for late-night hours as other times: $2 for a subway and $1.50 for a bus.

The pilot late-night service comes in response to concerns from college students and the technology sector in Boston over the lack of public transportation late at night.

The late-night program became a focal point of the Boston mayoral race, in which Mayor-elect Martin J. Walsh promised to implement late-night service if elected. Debates raged over the course of the summer to find sources of funding for the service. According to The Boston Globe, proponents believed that expanded hours would help further establish Boston as a tech center while opponents warned that the state could not afford to expand hours.

The Boston Globe noted in an editorial published on Saturday in support of the changes that the current 1:00 a.m. end of service leaves late night restaurant workers with no way to get home.

Governor Deval Patrick has pledged $20 million to fund the one-year pilot. Fund- ing for future service, however, remains uncertain.

In an interview with WMassLive, Mayor-elect Walsh said, “I think for a city the size of Boston, 1:00 a.m. is not enough, but this is a great first step.”

The Night Owl bus service, which ran from 2001 to 2005, the service was cancelled due to insufficient demand.

According to The Boston Globe, the city is now hoping to raise $2 to 5 million from private companies to help expand the late night service, but has yet to secure any formal commitments.

The city has previously implemented light night service. The Night Owl bus service, which ran from 1:00 a.m. to 3:30 a.m. on Saturday and Sunday nights, operated from 2001 to 2005. The service was cancelled due to insufficient demand.

The state is now hoping that the 5,200 people entering the T at 1:00 a.m. will be sufficient to create a sustainable late night service. The previous service had only included bus service, while the new service will run subways, which run more frequently.

In Innovation Nation on Kleiner Perkins’, Megan Quinn, CAMPUS LIFE, p. 9

By William Navarro

On Monday, Dec. 9, students in 2.009: Product Engineering Processes presented their final projects in Kresge Auditorium. The students worked together in teams of six throughout the semester to develop products and build prototypes related to the wellness-oriented theme dubbed “Be Well.” Each team was given a $6,500 budget to design, produce, and present their prototype.

The event, a well-organized production complete with live music, began promptly at 7:30 p.m. with a musical performance by organist Epp Sonin.

Kresge was filled with spectators. Course 2 junior Ben Z. Newcomb ‘15 said he came to the event “out of general interest. I really like the idea [of the 2.009 projects]. I’m excited to do it next year.” It’s a good way to learn about the process [of designing a product for market].

Each of the color-coded teams presented their prototypes and explained their product in eight minutes, which was followed by five minutes for questions.

The Orange Team presented “Mira: The future of motorcycle navigation.” Mira allows motorcycle old-
Syco to buy US foods for $3.5 billion

Syco agreed on Monday to buy U.S. foods for about $3.5 billion in stock and cash, uniting two of the biggest food distributors in the country.

The terms of the deal, Syco will pay $3.5 billion in stock and $500 million in cash. The transaction will give U.S. Foods’ current owners, the investment firms Clayton, Dubilier & Rice and Kohlberg Kravis Roberts, a stake of roughly 13 percent in the combined company.

The acquisition of U.S. Foods’ debt, the transaction is valued at $8.2 billion. By far his largest rival, Syco will solidify its position as the reigning giant of food distribution. The company, whose trucks move millions of pounds of frozen food and kitchen supplies around the country, expects its annual revenue to grow by 46 percent, to $16 billion.

The deal will give Syco’s owners a path to exit their investment. Clayton Dubilier and KKR bought the company from the Dutch grocery store company Royal Ahold in 2007 for about $7.1 billion in cash and $500 million in debt.

—Michael J. de la Merced, The New York Times

North Korea confirms purging of leader’s uncle from his posts

SEOUL, South Korea — North Korea on Monday confirmed that Jang Song Thaek, the once-powerful uncle of the country’s leader, Kim Jong Un, had been stripped of his many positions and expelled from the ruling Workers’ Party in the biggest purge since Kim assumed control of the nation two years ago.

Kim Jong Un, in a meeting of the Political Bureau of the Party Central Committee on Sunday where a decision was adopted to purge Jang, 67, and his “group” for counterrevolutionary acts like “attempting to undermine the unity leadership of the party.”

By singling out Jang and those associated with him, North Korea, which has been surviving on a vast network of pointers that, according to South Korean intelligence officials, Jang had helped insilt in the party and military.


Cameras proposed inside cabs of trains

NEW YORK — A week after a Metro-North train derailed in the Bronx, killing four people and injuring scores of others, two U.S. senators on Sunday called for Metro-North and other train systems to add the cameras instead of video screens to monitor track conditions and train operators — a system the senators said might have prevented last week’s accident.

Sen. Charles E. Schumer of New York and Richard Blumenthal of Connecticut, who have become vocal and frequent critics of Metro-North, said Sunday that the Federal Railroad Administration had not ordered railway authorities to do so. The board’s recommendation came in a 2010 report on the California crash.

“This isn’t the first time that fatigue has been linked to a serious accident,” Schumer said at a news conference at Grand Central Terminal on Sunday. “Better late than never, should’ve been done five years ago, but they should do it now.”

Schumer was unclear whether cameras would have prevented the derailment, but he said the cameras could alert train operators to track problems and deter drivers from falling asleep or nodding off during longer trips. Among other things, they would carry the earlier camera, he said. Some city bus systems and commuter railroads, including the California system involved in the 2008 collision, use driver-monitoring cameras.

—Yvonne Hie, The New York Times

House and Senate reach compromise on Pentagon bill

WASHINGTON — House and Senate negotiators reached a final agreement Monday on a Pentagon policy bill that would strengthen protections for military victims of sexual assault and keep the prison facility at Guantánamo Bay open.

The measure is the first change to the 12-year-old U.S. military policy that Mr. Obama has agreed to restart the transfer of detainees to other countries that have expressed willingness to take them. The measure is the first change to the 12-year-old U.S. military policy that Mr. Obama has agreed to restart the transfer of detainees to other countries that have expressed willingness to take them.

—By Jonathan Weisman and Jennifer Stuessy

Israel agrees to allow building materials into Gaza

WASHINGTON — House and Senate negotiators reached a final agreement Monday on a Pentagon policy bill that would strengthen protections for military victims of sexual assault and keep the prison facility at Guantánamo Bay open.

The measure is the first change to the 12-year-old U.S. military policy that Mr. Obama has agreed to restart the transfer of detainees to other countries that have expressed willingness to take them. The measure is the first change to the 12-year-old U.S. military policy that Mr. Obama has agreed to restart the transfer of detainees to other countries that have expressed willingness to take them.

—By Jonathan Weisman and Jennifer Stuessy

Israel agrees to allow building materials into Gaza

NEW YORK — A week after a Metro-North train derailed in the Bronx, killing four people and injuring scores of others, two U.S. senators on Sunday called for Metro-North and other train systems to add the cameras instead of video screens to monitor track conditions and train operators — a system the senators said might have prevented last week’s accident.

Sen. Charles E. Schumer of New York and Richard Blumenthal of Connecticut, who have become vocal and frequent critics of Metro-North, said Sunday that the Federal Railroad Administration had not ordered railway authorities to do so. The board’s recommendation came in a 2010 report on the California crash.

“This isn’t the first time that fatigue has been linked to a serious accident,” Schumer said at a news conference at Grand Central Terminal on Sunday. “Better late than never, should’ve been done five years ago, but they should do it now.”

Schumer was unclear whether cameras would have prevented the derailment, but he said the cameras could alert train operators to track problems and deter drivers from falling asleep or nodding off during longer trips. Among other things, they would carry the earlier camera, he said. Some city bus systems and commuter railroads, including the California system involved in the 2008 collision, use driver-monitoring cameras.

—Yvonne Hie, The New York Times

Weather

Arctic front to bring temperature plunge

By Ray Hua Wu

Yesterday, we at Cambridge witnessed the first lasting snow of the winter, more than one month later than the expected date of our first lasting snow last year. Temperatures over the last few days frequently oscillated above and below freezing. This is typical in Bostonian December.

This will soon change, however. As an Arctic front is forecast to move through Boston tomorrow night, lowering highs to below freezing and pushing lows into the teens. The latter part of the week is expected to be dry and frigid. As hurricane season ended, a time for a new, different set of named storms came. Over the past few days, Winter Storm Dion has brought to much of the East Coast significant amounts of snow and many airport delays. Continued nor’easter events in the Mid-Atlantic is still expected today.

Extended Forecast

Today: Cloudy with possible late morning and afternoon snow showers, and wind chill warning. High around 36°F (2°C). Winds East at 10 to 15 mph.

Tonight: Clear. Low around 22°F (-6°C). Winds southwest at 10 to 15 mph.

Tomorrow: Partly cloudy, dry, and windy. High around 31°F (-1°C). Winds South at 15 to 25 mph.

Thai premier calls for elections as opposition quits

By Thomas Fuller
THE NEW YORK TIMES

BANGKOK — Facing volatile street protests by opposition groups, Thailand’s prime minister called on Monday for new elections, in the latest in a series of attempts to alter the political trajectory and end weeks of protests that have thrown the country into turmoil.

The news came as thousands of protesters, who have vowed to overthrow the country of the influence of Yingluck’s family, surrounded the prime minister’s office.

The call for elections, which were due to take place by 2015, did not satisfy many of the protest leaders, who rejected the announcement as a “fraud” or a “deceitful maneuver.”

The two sides have reached agreement on sharing power in Mississippi, where the Philippine Department of Energy said that 1,400 in Canada because the 8-speed automatic transmission deal would be maintained.

The project has been discussed as a problem to the United States and 1,400 in Canada because the 8-speed automatic transmission deal would be maintained.

The Chrysler recall affects some 2013 Chrysler 300, Dodge Char- rys, and other vehicles.

By Floyd Whaley
THE NEW YORK TIMES

WASHINGTON — In a battle that pits the East Coast against the Midwest over the water, the curvy water from coal plants, the governors of eight Northeastern states plan to petition the Environmental Protection Agency on Monday to lighten air pollution regulations.

The announcement noted that most of the system would be maintained.

The 8-speed transmission’s output shaft may fracture, resulting in a loss of power, the automaker said, adding that it learned of the problem to the United States and 1,400 in Canada because the 8-speed automatic transmission deal would be maintained.

On Monday, the companies, led by Google and Microsoft, pre-

The 8-speed transmission’s output shaft may fracture, resulting in a loss of power, the automaker said, adding that it learned of the problem to the United States and 1,400 in Canada because the 8-speed automatic transmission deal would be maintained.

By Isabel Kershner
THE NEW YORK TIMES

EBRUSAL — In a rare display of regional cooperation, rep-

The water level in the Dead Sea, and its distance to lake levels, are the lowest dry places on Earth, has been dropping by more than three feet every year. That is because the rate of water in the Jordan River, its prime source, is much lower than those in Israel, Jordan or Syria for domestic use and irrigation; very little now reaches the lake. Potash industries on either side of the lake have also had a detrimental impact. About 25 miles of the Dead Sea’s shoreline lie in the Israeli-occupied West Bank and are claimed by the Palestinians as part of a future state.

Israel officials said that proposals would soon be solicited inter-

The tractor pipeline will run through Jordanian territory, be-

It is now in their business and economic interest to protect their own coal plants. “The people who want to cooperate, they have a lot of leverage to force significant changes,” said Trevor Timm, an activist at the Electronic Frontier Foundation. “The NSA mass-surveillance programs exist for a simple reason: cooperation with the intelligence community.

The political push by the technology companies opens a third front in their battle against government surveillance, which has es-

By Edward Wyatt and Claire Cain Miller
THE NEW YORK TIMES

Israel, Jordan, and Palestinians sign water project deal

And the project has been discussed as a problem to the United States and 1,400 in Canada because the 8-speed automatic transmission deal would be maintained.

The energy department said that it has been gerrymandered the elections.

The opposition in Thailand has been working to win elections against the powerful Prime Minister Yingluck Shinawatra, a former prime minister who now serves as the leader of her party.

On Sunday, the Democrat Party, Thailand’s largest opposition party, called on Monday that the Thai government must have a “green light” to buy pollution permits.

Another aspect of the agreement to be negotiated involves what the two parties call the “normalization” of relations in the region. This would involve incor-

Twelve sport utility vehicles and more than two dozen motorcycles were among the vehicles.

Iraqi forces clash with gunmen in Sadr City border area

EGYPT — Iraq’s forces battled gunmen trying to infiltrate the country from neighboring Syria on Monday, while attacks in Bag-

Iraqi forces clashed with gunmen in Sadr City border area

By Edward Wyatt and Claire Cain Miller
THE NEW YORK TIMES

EGYPT — Iraq’s forces battled gunmen trying to infiltrate the country from neighboring Syria on Monday, while attacks in Bag-

Iraq forces killed by suicide bombers

EGYPT — Iraq’s forces battled gunmen trying to infiltrate the country from neighboring Syria on Monday, while attacks in Bag-

Iraqi forces clash with gunmen in Sadr City border area

By Edward Wyatt and Claire Cain Miller
THE NEW YORK TIMES

EGYPT — Iraq’s forces battled gunmen trying to infiltrate the country from neighboring Syria on Monday, while attacks in Bag-

Iraqi forces clash with gunmen in Sadr City border area

By Edward Wyatt and Claire Cain Miller
THE NEW YORK TIMES

egypt — Iraq’s forces battled gunmen trying to infiltrate the country from neighboring Syria on Monday, while attacks in Bag-

Iraqi forces clash with gunmen in Sadr City border area

By Edward Wyatt and Claire Cain Miller
THE NEW YORK TIMES

EGYPT — Iraq’s forces battled gunmen trying to infiltrate the country from neighboring Syria on Monday, while attacks in Bag-

Iraqi forces clash with gunmen in Sadr City border area

By Edward Wyatt and Claire Cain Miller
THE NEW YORK TIMES

EGYPT — Iraq’s forces battled gunmen trying to infiltrate the country from neighboring Syria on Monday, while attacks in Bag-

Iraqi forces clash with gunmen in Sadr City border area

By Edward Wyatt and Claire Cain Miller
THE NEW YORK TIMES

EGYPT — Iraq’s forces battled gunmen trying to infiltrate the country from neighboring Syria on Monday, while attacks in Bag-

Iraqi forces clash with gunmen in Sadr City border area

By Edward Wyatt and Claire Cain Miller
THE NEW YORK TIMES

EGYPT — Iraq’s forces battled gunmen trying to infiltrate the country from neighboring Syria on Monday, while attacks in Bag-

Iraqi forces clash with gunmen in Sadr City border area

By Edward Wyatt and Claire Cain Miller
THE NEW YORK TIMES

EGYPT — Iraq’s forces battledThe carcass(69,819),(292,996) of a goat is seen in the middle of the road after being killed by a mortar shell in Sadr City, Baghdad, Iraq, Sunday, Dec. 8, 2013. (AP Photo/Karim Kadim)
OPINION POLICY

Editors are the official opinion of The Tech. They are written by the Editorial Board, which consists of Chairman, Managing Editor, Opinion Editors, and Associate Editors.

The Tech welcomes letters to the editor. Letters should be 300 words or less and be submitted via email to letters@tech.mit.edu.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the writer. Letters, columns, and editorial cartoons are reviewed by the editorial board before publication.

Letters to the editor, columns, and editorial cartoons are intended to be a forum for MIT students, alumni, faculty, staff, and other community members to express their views on issues of interest to the MIT community. The Tech reserves the right to edit letters, columns, and editorial cartoons for clarity, brevity, and accuracy.

Letters to the editor, columns, and editorial cartoons are intended to be a forum for MIT students, alumni, faculty, staff, and other community members to express their views on issues of interest to the MIT community. The Tech reserves the right to edit letters, columns, and editorial cartoons for clarity, brevity, and accuracy.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the writer. Letters, columns, and editorial cartoons are reviewed by the editorial board before publication.

Letters to the editor, columns, and editorial cartoons are intended to be a forum for MIT students, alumni, faculty, staff, and other community members to express their views on issues of interest to the MIT community. The Tech reserves the right to edit letters, columns, and editorial cartoons for clarity, brevity, and accuracy.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the writer. Letters, columns, and editorial cartoons are reviewed by the editorial board before publication.

Letters to the editor, columns, and editorial cartoons are intended to be a forum for MIT students, alumni, faculty, staff, and other community members to express their views on issues of interest to the MIT community. The Tech reserves the right to edit letters, columns, and editorial cartoons for clarity, brevity, and accuracy.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the writer. Letters, columns, and editorial cartoons are reviewed by the editorial board before publication.

Letters to the editor, columns, and editorial cartoons are intended to be a forum for MIT students, alumni, faculty, staff, and other community members to express their views on issues of interest to the MIT community. The Tech reserves the right to edit letters, columns, and editorial cartoons for clarity, brevity, and accuracy.
Q.E.D. (QUITE EASILY DONE)  

BY ERIKA TRENT

I’VE HAD SUCH A LONG SEMESTER!

YOUR SEMESTER

Tuesday, December 10, 2013 The Tech

ACROSS
1 Busts
11 Arts. often rounded
15 2013 Literature Nobelist
16 Cracker ingredient
17 Head shots
19 Matches
20 Retrospective fodder
21 Words to a teaser
25 Things getting chipped away at?
28 Like some much-studied columns
31 Draining creation
32 PR concern
33 Often-bracketed addition
37 The Cookie Never Crumbles author
39 Uomo’s counterpart
40 Understand intuitively
41 What’s supposed to bring many happy returns?
44 Needle point
45 Piece of peace
46 Advocacy group
48 Installment plan of a sort
50 Wound up
51 Catch up
52 Order to move
57 One may be removed many times
62 Perry Square locale
63 Convenience on the way out
64 Makeup accessory
65 Allowing no bullets to get through?

DOWN
1 Many have file names
2 Witch-hazel enhancer
3 Eagle cousin
4 UN organ
5 Quinque +1
6 Poirot’s pal
7 Dog supporter
8 Purée used for a Jelly Belly flavor
9 One leaving
10 Deceive
11 Some music-box activity
12 Mule carriers
13 Laser ___
14 Quick procedure?
18 They fill some breaks
22 What “thee” often follows in Shakespeare
23 Bish alternative
24 Kitchen burner
26 Musical beginner
27 Mideast money
28 For love
29 All new
30 Something to stick with?
34 Rick & Bubba Show home
35 Unlikely to be lost
36 Ratted
38 Not in a cast, maybe
42 Backpack carrier on some western trips
43 Cinderella mouse
47 Less likely to leave things out
49 Advances
50 Emotional attack
52 Cease, in slang
54 __American détente
55 Alternative to the Fiesta
56 Part of a philatelist’s dotted line
57 Green coat?
58 Choice for a future cushion
59 A coup could end it
60 Good deal
61 Fitness Buddy or Fruit Ninja

YOUR SEMESTER... IN THE CONTEXT OF THE YEAR

JAN ‘13

SEP

ADVISING MEETINGS  DROP PROPOSAL  LAB REPORT  MIDTERM!S! APPLY TO INTERNSHIPS!  POSTER PRES/  END-OF-SEM. CRUNCH TIME!!

DEC

YOUR SEMESTER... IN THE CONTEXT OF YOUR LIFE

BIRTH

AGE 40

AGE 80

CAREFREE YEARS

GET A JOB

GET A DOG

MARRIAGE?

SAVE THE WORLD?

... IN THE CONTEXT OF THE LIFE OF THE UNIVERSE

BIG BANG

13.8 BILLION YEARS OF EVOLUTION

Saturday Stumper by Frank Longo

Solution, page 17

ACROSS
1 Busts
11 Arts. often rounded
15 2013 Literature Nobelist
16 Cracker ingredient
17 Head shots
19 Matches
20 Retrospective fodder
21 Words to a teaser
25 Things getting chipped away at?
28 Like some much-studied columns
31 Draining creation
32 PR concern
33 Often-bracketed addition
37 The Cookie Never Crumbles author
39 Uomo’s counterpart
40 Understand intuitively
41 What’s supposed to bring many happy returns?
44 Needle point
45 Piece of peace
46 Advocacy group
48 Installment plan of a sort
50 Wound up
51 Catch up
52 Order to move
57 One may be removed many times
62 Perry Square locale
63 Convenience on the way out
64 Makeup accessory
65 Allowing no bullets to get through?

DOWN
1 Many have file names
2 Witch-hazel enhancer
3 Eagle cousin
4 UN organ
5 Quinque +1
6 Poirot’s pal
7 Dog supporter
8 Purée used for a Jelly Belly flavor
9 One leaving
10 Deceive
11 Some music-box activity
12 Mule carriers
13 Laser ___
14 Quick procedure?
18 They fill some breaks
22 What “thee” often follows in Shakespeare
23 Bish alternative
24 Kitchen burner
26 Musical beginner
27 Mideast money
28 For love
29 All new
30 Something to stick with?
34 Rick & Bubba Show home
35 Unlikely to be lost
36 Ratted
38 Not in a cast, maybe
42 Backpack carrier on some western trips
43 Cinderella mouse
47 Less likely to leave things out
49 Advances
50 Emotional attack
52 Cease, in slang
54 __American détente
55 Alternative to the Fiesta
56 Part of a philatelist’s dotted line
57 Green coat?
58 Choice for a future cushion
59 A coup could end it
60 Good deal
61 Fitness Buddy or Fruit Ninja
Somewhere on the Search for Meaning... by Letitia Li

Today I arrived at the Grand Canyon.

The chasm stretches before me as far as the eye can see...

…Too bad I was trying to get to Vegas!

Piled Higher and Deeper

by Jorge Cham

Sudoku
Solution, page 17

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of the digits 1 through 9.

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

Techdoku
Solution, page 17

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.

| 20+ | 240× | 2× |
| 4× | 36× | 120× |
| 6× | 20× | 2 | 6 |

2× | 60× | 1× |
Techdoku II

Solution, page 17

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–8. Follow the mathematical operations for each box.
We are The Tech

We print MIT’s only newspaper twice per week, and we have fun doing it.

Want to be a part of this?

join@tech.mit.edu
InnovatIon natIon

Applications, products and services get more thoughtful about privacy from the start. In the early days of product and app development there were less savvy consumers. People didn’t understand what they were giving up. Now we have a more savvy consumer base and much more thoughtful developer base. Developers are giving people more options. That is the heart of ensuring privacy is by giving consumers options they understand and languages they understand.”

Given her success working to help build companies and products, Quinn also does a lot to stay on top of trends: “There are three things I do proactively: I read as much as humanly possible — the very first thing I do in the morning is check Twitter. It’s my ongoing stream of data and information that matters to me that I have curated for myself. I also use Flipboard to find things I might not have discovered on my own. I read obsessively and try to understand what smart people who focus on these areas think about these trends to develop a point of view.”

An even better way to stay informed? Constantly meet with interesting people in your industry. Quinn has over 45 meetups with different people in a week, ranging from people who are more senior executives from public companies to college students who are trying to learn about how they can get involved. “I encourage everyone to find these different touchpoints I learn about different areas of development and innovation that I can’t get through reading. The human interaction piece is very important. Also, I have four sisters, two older to two younger. We range in age from 36-24. My sisters are my best guide for what apps are resonating with the average consumer.”

How does Quinn think the industry should create more diversity in the ranks of leaders by including more women? As a featured speaker on our Women In VC panel, she thoughtfully provided her perspective: “You can’t be what you can’t see. Understanding yourself is most important in finding mentors who have achieved success in a way that resonates with you.”

It never would have occurred to me a decade ago that venture capital is something I would have achieved success in a way that resonates with you. Quinn explains, “I observe who has achieved success but had done so in a way that was thoughtful, collaborative and more in tune with how I wanted to develop.”

Join Campus Life @ The Tech!

Are you dying to tell someone your latest epiphany?

Write about it!

E-mail join@tech.mit.edu

Send your campus events to events@tech.mit.edu.
1. Kresge Auditorium’s windows were decorated in the colors of the teams participating in the presentations.
2. Professor David R. Wallace, the lead teacher for 2.009, was the master of ceremonies for the final presentations which took place in a packed Kresge Auditorium.
3. Green Team demoed “Poseidon,” a device which projected a green dot on the bottom of any swimming pool to help swimmers keep up with their target pace.
4. Professor David R. Wallace was recognized by his students at the end of the 2.009 final presentations.
5. Team Purple created a product which prevents equine leg injuries. For their product demo, they brought in “Pinky,” the horse which they had worked with during the semester.
**Art via recycling**

**Artist will create MIT-themed sculptures from items donated this Friday**

By Grace Young

Nearly every month since 2011 MIT has hosted a “Choose-to-Reuse” event in the Stata Center lobby, sponsored by the Department of Facilities, Sustainability@MIT, and Green. During the event, community members donate and trade unwanted items. The overarching goal is to promote a culture of recycling and reducing waste. This year they are giving the program an arts-spin by collaborating with sculptural artist Kyle Haines. Haines will repurpose items from Choose-to-Reuse, as well other items found at MIT, into MIT-themed sculptures. His final pieces will be displayed on campus during Earth Week this coming April. He will begin collecting goods at the next Choose-to-Reuse event this Friday.

He caught up with The Tech to explain his motives behind the project and how art can relate to the MIT community.

The Tech: Can you tell us more about the sculpture you are planning? What is a crowd-sourced sculpture, and what does it mean to you?

Kyle Haines: I’m going to try to keep the designs of the sculptures under wraps for now, but I can tell you that the “crowd-sourced” sculpture will show something that I have found to completely embody the MIT culture.

A crowd-sourced sculpture is something completely new to me. I see it as an interesting challenge and a sort of artistry time capsule. Any MIT affiliate can head to the next Choose-to-Reuse event this Friday, and if they donate a specific item to be a part of it, they can feel part of the MIT community.

The Tech: How did you connect with MIT?

Kyle Haines: I don’t know if everyone can learn something from art, but I think just about everyone can benefit from it. Art can help you to see the world more clearly, it can expose a new side of something you thought you already understood, and it can invite you into an entirely different state of mind. You’re not going to have an epiphany every time you see a Picasso, but there are many things that even the most brilliant engineer might glean from a visit to a museum.

The Tech: Do you think engineers - or broadly MIT students - can learn from art? How?

Kyle Haines: I don’t know if everyone can learn something from art, but I think just about everyone can benefit from it. Art can help you to see the world more clearly, it can expose a new side of something you thought you already understood, and it can invite you into an entirely different state of mind. You’re not going to have an epiphany every time you see a Picasso, but there are many things that even the most brilliant engineer might glean from a visit to a museum.

The Tech: What is a community's role in reducing its waste and being more energy conscious?

Kyle Haines: I don’t know if everyone can learn something from art, but I think just about everyone can benefit from it. Art can help you to see the world more clearly, it can expose a new side of something you thought you already understood, and it can invite you into an entirely different state of mind. You’re not going to have an epiphany every time you see a Picasso, but there are many things that even the most brilliant engineer might glean from a visit to a museum.

The Tech: “Mommy’s Little Soldier,” a sculpture artist Kyle Haines created in 2011 from projector parts, fan parts, saucepan, butter knife, steel wire, and forks. Haines will create a series of MIT-themed sculptures from items collected from the Choose-to-Reuse event this Friday.

For more information, email join@tech.mit.edu

---

**“Snowden Affair”**: Intelligence and Privacy in a Wired World

**Thurs, Dec 12, 2013**

4:30p - 6:00p | MIT Bldg E14-674 | 75 Amherst St, Cambridge

The "Snowden Affair": Intelligence and Privacy in a Wired World

**About the speakers:**

**Moderating:**
Admiral William Fallon, former head of CENTCOM

**Panelists:**
Susan Chira, assistant managing editor, New York Times
Chas Freeman, American diplomat, former ambassador to Saudi Arabia
Joel Brenner, former senior counsel, National Security Agency

**The Tech** is looking for interactive graphic designers to join its online media team.

No experience necessary. We’ll give you the tools to get you started.

This is a great way to gain valuable job experience, build a strong web portfolio, and create designs that will be submitted for national awards.

For more information, email join@tech.mit.edu
Not limiting their activities to the earthly realm, U.S. and British spies have infiltrated the fantasy worlds of World of Warcraft and Second Life, conducting surveillance and scooping up data in the online games played by millions of people across the globe, according to newly disclosed classified documents.

Fearing that terrorist or criminal networks could use the games to communicate secretly, move money or plot attacks, the documents show, intelligence operatives have entered terrain populated by digital avatars that include elves, gnomes and supermodels.

The spies have created make-believe characters to sneeze and to try to recruit informers, while also collecting data and contents of communications between players, according to the documents, disclosed by the former National Security Agency contractor Edward J. Snowden. Because militants often rely on features common to video games — fake identities, voice and text chats, a way to conduct financial transactions — U.S. and British intelligence agencies worried that they might be operating there, according to the papers.

Online games might seem innocuous, a top-secret 2008 NSA document declared, but they had the potential to be a "target-rich communication network" allowing intelligence suspects "way to hide in plain sight."

According to U.S. officials and documents, the British spy agency, known as "signals intelligence." The NSA did not specify how much data from other Internet traffic.

The document added, "With a few exceptions, the NSA and other intelligence agencies were beginning to explore virtual games, NSA officials met with the chief technology officer for the manufacturer of Second Life, the San Francisco-based Linden Lab. The executive, Cory Ondrejka, was a former Navy officer who had worked at the NSA with a top-secret security clearance. He visited the agency's headquarters at Fort Meade, Md., in May 2007 to speak to staff members over a brown bag lunch, according to a federal agency announcement. "Second Life has proven that virtual worlds of social networking are a reality: come hear Cory tell you why" said the announcement. It added that virtual worlds gave the government the opportunity "to understand the motivation, context and consequent behaviors of non-Americans through observation, without leaving U.S. soil."
CALLING ALL INVENTIVE STUDENTS!

The Lemelson-MIT National Collegiate Student Prize Competition is open to students nationwide who have inventions in one of two categories:

- **"Cure it!"** (Healthcare)
  - $15K to the winning individual graduate student in each category
  - $10K to the winning undergraduate team in each category

- **"Use it!"** (Consumer devices and tools)
  - $15K to the winning individual graduate student in each category
  - $10K to the winning undergraduate team in each category

**Apply by: December 31, 2013**

http://mit.edu/invent/studentprize

---

**2.009 presentations**

Product engineering class finishes

2.009, from Page 1

Course 2 students’

be the first to know about what’s happening at MIT.

The Tech is looking for news writers to...

- interview students,
- administrators, and
- faculty...

cover new campus policy...

and find out how MIT connects to the rest of the world.

e-mail join@tech.mit.edu and say you want to write news.

---

**Lemelson-MIT**

Celebrating innovation, inspiring youth

Want to spend your summer in Singapore?

**Attention MIT Undergraduates!**

Apply now for a SMURF Fellowship!

Deadline to submit your application is January 31, 2014

- Roundtrip economy class airfare
- Housing provided
- Hourly compensation
- Daily food and transportation allowance

Visit the SMART website at

http://smart.mit.edu/fellowships/smurf/smurf.html

Singapore-MIT Undergraduate Research Fellowship (SMURF)
Four MIT seniors Marshall Scholars

Prestigious award funds graduate studies at universities in the UK

Marshall, from Page 1

Sinha also co-founded and currently leads a summer program for girls called SHINE, which combines dance lessons and math classes for seventh grade girls struggling in school. She created the program with the help of the MIT Public Service Center. “I saw that the problem was not girls’ inherent mathematical ability, but their self-confidence.” Sinha envisions an international version of the program and hopes to modify it to fit to the U.K. curriculum and standards in order to implement SHINE in Cambridge in the U.K. “It is my goal to become a professor of mathematics while staying involved with SHINE,” said Sinha.

Catherine Koch

Biologist major Catherine Koch plans to obtain a Master of Science in Radiation Biology at Oxford University and hopes to also obtain an MD/PhD in order to practice as a pediatric oncologist. Koch initially came to MIT with an interest in participating in the UROP program, and has recently been working in Professor David M. Sabatini’s lab at the Whitehead Institute on cancer metabolism research. According to the MIT News Office Press release, she contributed as an author to a publication in Nature Genetics describing a new cancer therapy based on cancer metabolism.

“Research is a very international experience. It broadens your perspective,” said Koch of her experience in the MISTI Italy program.

Koch’s interests also include playing on the MIT Men’s Hockey team and past work in a trauma hospital, which fueled her drive to become a physician scientist.

Grace Young

Grace Young (a Tech Arts editor) is a junior studying Mechanical and Ocean Engineering with minors in History of Art and Architecture. She plans on pursuing a Master of Science and PhD in engineering sciences.

“My passions for engineering and the ocean developed separately. At MIT I found ways to combine my love of robotics and the sea.” Calling this mix the “perfect storm,” Young said that her interest in robotics was inspired by seeing her high school’s robotics team. Young said that her internship at the National Oceanic and Atmospheric Administration showed her “how important it is for scientists and policy makers to work together,” and plans to continue working in ocean engineering and policy as a career. “I want to develop technology that helps implement good ocean management policy, as well as have input in making ocean policy.”

At Oxford, Young wants to work at the Global Ocean Commission. “It’s a great place for me to develop as a scientist and gain an international perspective while interacting with policy makers.”

Colleen Loyanchan

Colleen Loyanchan will be completing her degree in Materials Science and Engineering and plans to pursue a Master of Science in Biomedical Engineering and Biomedical Research at Imperial College London. “Imperial offers a unique Master’s Degree in biomedical engineering with biomaterials,” said Loyanchan, whose current research background is in materials science with an emphasis on biomaterials. “However, in the future, I hope to work at the interface of materials science and medicine doing translational research.”

Loyanchan spent her past spring studying at Oxford and previously spent her summer at the California Institute of Technology, where she co-authored a research publication in the Nano Letters journal with Professor Julia Greer. Loyanchan received the送料. M. Goldwater Scholarship Award, an award established by Congress for college students studying science and engineering, and is currently conducting research in protein aggregation with Assistant Professor Polina O. Anikeeva ’98.

“I’m mainly motivated to pursue my project because of its therapeutic potential. I believe the solution to many global health and biomedical problems, particularly a range of disease treatments, exists in the creative design of advanced biomaterials that translate into clinical practice,” said Loyanchan. She hopes to complete a PhD and postdoctoral studies in the U.S. following her studies in the UK.

All four recipients thanked Kim Bernard of the MIT Distinguished Fellowship Office and everyone involved in the MIT process for their commitment and help throughout the application. “You really get to learn about yourself through applying,” added Koch.

A random sampling of people you’ll meet during a typical dinner at The Tech:

Derek, Course 1
Sarah, Course 2
Anna, Course 3
Debjyoti, Course 4
Will, Course 5
Deborah, Course 6
Kah, Course 7

Austin, Course 8
Ian, Course 9
Sara, Course 11
Vince, Course 12
Anthony, Course 14
Maggie, Course 15

Chris, Course 16
Anne, Course 17
Leon, Course 18
Jack, Course 19
Stephanie, 21/CMS
Keith, Course 22

Meet your new psst support group

Tuesday, December 10, 2013
Games may be under watch
Evidence of agencies surveilling multiplayer games

Spies, from Page 12

BIG DATA. ANALYTICS.
INSIGHTS.

At Worcester Polytechnic Institute, you’ll learn to explore and use big data for innovations in healthcare, science, and engineering.

Apply now to our Data Science Graduate Program. Take the lead in a data-driven world.

Meet your fellow tech staff.
(aka, your new 3 a.m. pest support group!)

What’s Going On?

MIT can be a bewildering place if you don’t know what’s going on.

Don’t be a confused panda!
Instead, be a smart panda.
A happy panda.

Tech reporters hunt down the news; photographers get exclusive shots; and production staff see the entire issue—even the parts that don’t make it to press—long before we print.

Want in? Join The Tech!

join@tech.mit.edu

MBTA, from Page 1
than the buses.
For MIT students, the Central and Kendall Red Line stops near the north and east sides of campus, respectively, are nearest dorms and Cambridge FSILGs. Expanded hours on the Green Line will likely benefit a number of FSILGs in and around Boston, from Phi Kappa Theta near the Copley Square stop on the east side of Boston, to Sigma Alpha Epsilon near the Blandford Square station on the western end of the city and Zeta Beta Tau in Brookline.

—Will Company
The Cross Products, an MIT co-ed Christian a cappella group, held their end-of-semester concert in 32-123 this past Saturday. The group began singing at MIT in the fall of 1988.

Are you a tetris ninja?

Use your powers for good!

...by joining the production department at The Tech!

join@tech.mit.edu

MIT students! Visit the MIT Copytech, Building 11-004, for your reduced price of $5.
Attend available BSO Concerts at no additional cost.
Some blackout dates apply.
MIT student IDs required to purchase a card. One per MIT student ID.
**MIT Water Summit 2013**

December 12th, 2013, Whitehead Institute, MIT | 8 am – 6 pm

Dive into the cutting-edge research, debate emerging solutions, and explore the link between water-food-energy-society.

**Featured Panels:**
- Who owns water?
- Energy-Water Nexus: The Priority
- Emerging Water Pollutants
- The Food-Water Nexus: The Buzz

**REGISTER** at waterclub.mit.edu
Contact: mneha@mit.edu

---

We wear many hats at The Tech

Which will you choose?

email join@tech.mit.edu
Indications of surveillance in games

Tech companies give varied responses to allegations of surveillance

Spies, from Page 15

Eager to cash in on the government’s growing interest in virtual worlds, several large private contractors have spent years pitching their services to U.S. intelligence agencies. In one 66-page document from 2007, part of the cache released by Snowden, the contracting giant SAIC promoted its ability to support “intelligence collection in the game space,” and warned that online games could be used by militant groups to recruit followers and could provide “terrorist organizations with a powerful platform to reach core target audiences.”

It is unclear whether SAIC received a contract based on this proposal, but one former SAIC employee said that the company at one point had a lucrative contract with the CIA for work that included monitoring the Internet for military activity. An SAIC spokeswoman declined to comment.

In spring 2009, academics and defense contractors gathered at the Marriott at Washington Dulles International Airport to present proposals for a government study about how players’ behavior in a game like World of Warcraft might be linked to their real-world identities.

“We were told it was highly likely that persons of interest were using virtual spaces to communicate or coordinate,” said Dmitri Williams, a professor at the University of Southern California who received grant money as part of the program.

After the conference, both SAIC and Lockheed Martin won contracts worth several million dollars, administered by an office within the intelligence community that finances research projects.

It is not clear how useful such research might be. A group at the Palo Alto Research Center, for example, produced a government-funded study of World of Warcraft that found “younger players and male players preferring competitive, hack-and-slash activities, and older and female players preferring noncombat activities,” such as exploring the virtual world. A group from the nonprofit SRI International, meanwhile, found that players under age 18 often used all capital letters both in chat messages and in their avatars’ names.

Those involved in the project were told little by their government patrons. According to Nick Yee, a Palo Alto researcher who worked on the effort, “We were specifically asked not to speculate on the government,” motivations and goals.
Summer Study in The Hague

The Palitz Fellowship for the Study of Dutch Culture and Art

Scope
Spring semester in preparation with a faculty supervisor, followed by summer in The Hague, Netherlands.

Who may apply?
MIT students may apply no later than the Palitz application date in their junior year. For eligibility requirements and other details, visit shass.mit.edu/palitz.

Research areas
Any aspect of painting, history, or culture in the Dutch and Flemish Golden Age, e.g.: the art market; economic history; history of science, horticulture, or cartography; the technologies of print making and book production.

Application process
Application contents include transcript, resume, research proposal, letters of recommendation. For full information and instructions see shass.mit.edu/palitz.

Apply by January 9, 2014
shass.mit.edu/palitz

great ideas change the world
SCHOOL OF HUMANITIES, ARTS & SOCIAL SCIENCES

up to 50% FEWER QUESTIONS
End-of-Term SUBJECT EVALUATION
FALL 2013
REG. No. 12345
LIMITED TIME ONLY
deadline:
MONDAY 12/16
9 AM
web.mit.edu/subjectevaluation
SPORTS SHORT

MIT squash team shuts out Bard College, 9-0

After winning against Bryant University by a score of 6-3 last night, the MIT squash team went on to defeat Bard College by a score of 9-0 at home on Saturday morning. This brings Tech’s season record to 4-2.

Three different Engineers, all three of whom are juniors, held their opponents to zero points in at least one of their three games. David W. Iwan ’15 won his first and third games against Jeremy Goldsher, II-3, II-1, and won the middle game by a score of 11-6. At No. 5, Peter C. Riley ’15 defeated Sarwath Shikan hind by a score of II-4, II-4 in the first two games and blanked him in the final game. At No. 7, Sarah C. F. ’15 held Stephanie Parent to zero points in both the first and third games and won the second, II-3.

All of the matches were relatively low scoring; of each opponent that was faced, only one was able to score more than four points in a game, and that occurred at the No. 1 spot. Nikhil N. Panwarney ’14 played three very close games, but walked away with the win by a score of II-9, II-7, II-8. At No. 2, Tyler M. Finkelstein ’17 had an II-1, II-2, II-3 victory against Abe Etkin and, at No. 3, Aaron Zweibelbach ’16 easily earned a win against Morgan Evans, II-1, II-3, II-3.

Tech will not play another match this weekend. The Engineers will travel to the San Juan, Puerto Rico, Tournament in Puerto Rico. Mount Holyoke returns to action Thursday evening. Playing all 40 minutes, Maya K. Ramachandran ’16 helped thwart the comeback bid as she went 4-for-4 at the free-throw line on back-to-back MIT possessions as Drammis added a basket with 1:42 on the clock. Drammis finished with 15 points, eight rebounds, and two assists while Ramachandran recorded 11 points and nine boards. Rachel A. Hunt ’13 chipped in nine points, four rebounds, three assists, and two steals as Mount Holyoke slowly mounted a 16-5 run that narrowed the gap to 10 (41-31) on Nicole DeMarchena’s layup with 6:24 remaining. During the stretch, Legare registered six points while the Lyons converted all eight of their free-throw attempts after going 1-6-7 from the charity stripe in the first half. Maya K. Ramachandran ’16 helped the Engineers defeat Framingham State tonight, Dec. 10 against Framingham State University.

Despite a second-half run that brought Mount Holyoke College within 10 points with just six minutes left to play, the MIT women’s basketball team held on for a 47-32 NEWMAC victory on Saturday afternoon. Playing all 40 minutes, Mari R. Condell ’15 compiled 15 points, five rebounds, four assists, and four steals for the Engineers (4-3, 3-2 NEWMAC). Amber Legare led the Lyons (2-4, 1-4 NEWMAC) with a game-high 16 points to go along with seven rebounds and two steals.

On MIT’s ensuing possession, a put-back by Drammis at the 8:30 mark sparked a 16-2 run that resulted in a 27-12 advantage at the intermission.

A three-point play by Sabrina M. Drammis ’16 gave MIT a 7-3 lead after five minutes expired. Mount Holyoke responded with a Legare layup and a three-pointer from Kate Karraker to claim the one-point edge. Midway through the frame, jumpers by Drammis and Condell put the hosts in front, II-1, however, Legare’s layup on the Lyons’ next trip down the court kept them within striking distance. On MIT’s ensuing possession, a put-back by Drammis at the 8:30 mark sparked a 16-2 run that resulted in a 27-12 advantage at the intermission.

The Engineers continued to cruise in the second half as their margin grew to 23 (36-15) courtesy of Kordell’s fast-break layup following five minutes of action. Mount Holyoke slowly mounted a 16-5 run that narrowed the gap to 10 (41-31) on Nicole DeMarchena’s layup with 6:24 remaining. During the stretch, Legare registered six points while the Lyons converted all eight of their free-throw attempts after going 1-6-7 from the charity stripe in the first half. Maya K. Ramachandran ’16 helped the Engineers defeat Framingham State tonight, Dec. 10 against Framingham State University.

The game was close to the last minute, with MIT ultimately winning 61-57.

WE CAN HELP YOU GET OVER THAT.

Challenges are easier to solve together. Sometimes, the first step on the path to a solution is reaching out for help.

Visit the MIT Together site to find all the resources that are here to help you. Working together, we’ll find a way.

TOGETHER.MIT.EDU

UPCOMING HOME EVENTS

Tuesday, December 10

Women’s Basketball vs. Framingham State University

7 p.m., Rockwell Cage