Blexy demolition sought
Facilities official says renovations not worth it

By Stan Gill

Yesterday, at a meeting with the advisory group for the future of Bexley Hall, the Department of Facilities and the Division of Student Life put forth a recommendation for the demolition of Bexley Hall. Formerly an undergraduate dorm, Bexley Hall was closed after commencement this past year after inspections revealed a myriad of structural issues. If the recommendation is accepted by the MIT Administration, the building will go to the City of Cambridge to acquire the building’s condition, reno-

tate and demolish the historic building.

Director of Campus Plan-
ing, Engineering & Construc-
tion Richard L. A. Newman ex-
pressed that after evaluating the building’s condition, reno-
vating and razing the building would essentially mean re-
building it from the ground up. Although Amster did not disclose the preliminary cost-
benefit analysis that Facilities done, he suggested that de-
 demolishing the building and starting anew may simply be a better value for the Institute in the long run. If the building were to be razed for renova-
tional integrity, the extent of the renovations would require that the building be brought to today’s building code stan-
dards, which would include, among other things, installing an elevator, wider doorways, and horizontal fire- 
circulation corrid-
ors. Those additions would significantly increase the cost of the renovation project.

“I would have a hard time recommending to leadership to make the investment in the facility to renew it,” Amster said in an interview with The Tech. Amster explained that, un-
like Random Hall — a building that also received repairs this summer, but reopened at the start of term — Bexley Hall was in much worse shape. Bexley was closed last spring as a part of the Accelerated Capital Renewal program that was in-
spiring the facades of all the historic buildings on campus. Al-
ter Facilities faced several con-
cerning structural issues, they sought guidance on how to proceed. Two engineer-
ning reports and a recommenda-
tion from a structural engineer 
cerning structural issues, they 

decided to close and renovate Bexley after commencement 2013. While Facilities has been as-
sessing Bexley, they have met four times with the Bexley ad-
visory group.

Blexy demolition sought

“Life explained differently: two new intro biology classes 7.015 and 7.016 added to the slate of biology GIBs to contrast and relieve classic 7.012”,...

By Kath Xu

The biology department launched two new introductory bi-
ology classes this term, 7.015 and 7.016, bringing the total number of introductory biology classes to five: 7.012, the first intro biology class to cater towards students who come from a stronger biology background and 7.016 is the first to focus more on biochemistry than the other 7.01x classes. 7.015, the first capstone class, aims to provide a common core curriculum that makes up approximately 50 percent of each class. Previously, the only intro biology class offered in fall was 7.013, which 1,800 students signed up for in the spring. Ac-
credibly well, 7.015 differentiates a genetic approach to teaching biology, 7.014 focuses on human bi-
ology, and 7.016 specializes in ecol-
ogy and biogeochemical cycles.

7.015

When MIT stopped accepting AP Biology credit as a substitute for the biology General Institute Re-

quirements (GIBs) in 2005, there were no plans at the time to offer a differ-
ent version of the GIB for those who had taken advanced biology courses in high school. According to Dr. Leah Oku-
mura, 7.015 is the department’s at-
tem to provide something extra for students who have already taken a good amount of biology in high school.” 7.015 has a different class structure from the standard 7.012 format. About half of the recita-
tions are also discussion-based and the class hosts guest lecturers. To make up for fewer midterms and project tests 7.015 has 2 mid-
terms and 4 problem sets instead of the usual 3 and 7.015 has extra readings, discussions, and writing assignments.

“We prefer to call the enriched version [of intro biology],” she said. “It’s not necessarily more advanced, but we use different curriculum ma-
terials and a different strategy

New official for green MIT
Director is from Yale sustainability office

By Omar Ibrah

After years of experience in sustainability at the University of Chicago, Julie Newman will take on a role as the first director of MIT’s new Office of Sustainability.

The Office of Sustainable-

ability was created in mid-
May by MIT Executive Vice President Israel Israel, and currently con-
nists of Newman, Steven M. Lanou and Suzy Jones. Newman’s position was created to address edo-

cological, economic and social equity issues and provide effective solutions. This includes but is not limited to energy, water, soil, waste, and energy management.

“Director, my role is to build upon an already existing founda-
tion of MIT’s commitment to sus-
	tainability,” said Newman. Newman sees her role as twofold. First is her commit-

ment to focusing on the opera-
tional campus system. “I need to come together from a variety of different offices to be able to improve the campus system.” The second is to engage the community.

“We established a very robust roadmap that cut across all operational divisions of the university,” she said. While she enjoyed success

MIT fined for emissions
Cogen violations cost Institute $15,000

By Rosa Ruiz

Following a review of 2012 emissions records and an in-

spection of MIT’s power plant on Vassar Street, the Massachusetts Department of Environmental Protection (MassDEP) fined MIT $15,000 for violations in the mon-

itoring of emissions.

Although the infractions oc-
curred during 2010 and 2011, they were not discovered until MassDEP reviewed 2012 reports and inspected the MIT plant site, examining the plant’s emergency generators, boilers, and exhaust systems.

“The inability to adequately monitor the facility’s air qual-
ity emissions, in a manner that is consistent with its operation per-

mitt, is unacceptable,” said Eric Worrall, acting regional director of MassDEP’s Northeast Regional Office. MassDEP discovered that the plant had been emitting overly opaque emissions, as well as an unacceptably high concentration of carbon monoxide. In addition, the plant’s systems re-

ponsible for monitoring carbon monoxide and nitrogen oxides emissions and analyzing opac-
ity were found to have unsafe amounts of downtime.

“MIT is committed to maint-
aining a clean campus and clean air emissions are an im-

portant part of that effort. We are working with the Massachusetts Department of Environmental Protection to ensure our Central Utilities Plant meets or exceeds the standards specified in our air permits,” said William Van-

Schalkwyk, managing director of the Environment, Health, and Safety Office at MIT.

The Vassar Street plant, the William R. Dickson Cogenera-

tion Facility, has been supplying

Air quality, Page 16

I’M A FUNNY GUY, I SWEAR
Seriously, I came up with these jokes all by myself!

FROM ITALY TO KRESGE
La Scala Chamber Orchestra performs Fantasies from Verdi’s Operas at MIT. ARTS, p. 13

CONCERT: A TASTE OF MITSO
MITSO presented its first concert of the semester last Saturday. ARTS, p. 10

WEATHER, p. 2
Friday, October 18, 2013
Breezy

Mostly sunny

High: 62°

Low: 45°

Fun Pages 6

Opinion 4

World & Nation 2

WEATHER, p. 2
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Opinion 4

World & Nation 2
New York soda ban to go before state's top court

WASHINGTON — The U.S. government asked a federal appeals court Thursday to throw out the lawsuit challenging a New York City law that would ban most sugary drinks of more than 16 ounces at street vendors and restaurants.

The Justice Department intervened in the lawsuit, saying the city had overstepped its authority by enacting the law.

New York Mayor Michael Bloomberg, who championed the ban, praised the federal government for supporting the city's efforts to fight back against the ban.

The lawsuit was brought by the American Beverage Association, which represents the soft drink industry, which stood to lose millions if the ban came into effect.

"The agreement paves the way for the memorial to reopen in time for the next Memorial Day as well as to celebrate the 97th anniversary of the Cantigny Memorial," said John Horrigan, vice president for communications at the National World War I Museum and Memorial.

"It is a very important day for our museum, our community, and our country," he added.

The memorial was closed in the middle of February due to the budget shutdown, which caused the city to temporarily shut down all government programs.

"Cantigny Memorial remains closed," Horrigan said.

"But we are grateful for the hard work and dedication of our staff who have worked tirelessly to ensure the memorial is ready for visitors as soon as possible."
Israel-Turkey ties strained by release of spy video

By Isabel Kershner

JERUSALEM — Persistently strained relations between Israel and Turkey have not been helped by the disclosure here that Turkey revealed to the Iranians of Iran, who had spied for Israel.

The Israeli government would not comment on the disclosure, though a document published Wednesday in The New York Times reported that, in early 2012, the Turkish government had agreed to the disclosures about Iranians who had been meeting Israeli intelligence officers.

“Assuming that this is true, this was an extraordinarily malicious thing to do,” said a senior official of the Israeli intelligence agency, told Israel Radio, of which the then Israeli ambassador after Israel refused to extradite an Iranian.

In December 2011, Israel canceled a $141 million contract to supply the Turks with its advanced aerial intelligence system. An Israeli official said at the time that Israel’s was Turkey’s shifting allegiances in a turbulent region, which led Israel to believe it could end up in the hands of hostile governments, like that of Iran.

With Syria’s descent into a civil war underlying the enduring in-terests shared by Israel and Turkey, the United States urged these two countries to restore their ties. When President Barack Obama visited Israel in March, he brokered a reconciliation agreement.

But relations between the Turks, that they relay informa-tion that could endanger us,” Turkey once ranked as Israel’s closest ally in the Muslim world, it took part in joint exercises in the Mediterranean with the Israeli and U.S. navies, and allowed Israeli jet pilots to train in Turkey’s relatively vast airspace.

But relations began to sour over Israel’s deadly three-week offensive against the Hamas militant group in the summer of 2014. They have not improved since then.

The measure, an amendment to a broader electronic privacy law pending in Parliament, is a response to Prism, the secret spy-pro-gram led by the National Security Agency that came to light in June. Europeans were outraged by the revelations that some of America’s biggest tech companies, including Google and Yahoo to seek clearance from European officials before complying with U.S. warrants seeking private data.

The amendment would require companies not based in the EU to obtain special EU consent before they could operate in Europe. Violators could face fines of as much as 5 per-cent of a company’s global annual revenue.

The amendment would require companies to seek approval from a “supervisory authority” in a bloc country before transferring data on a person’s individual electronic communications, whether by mobile search or tablet computers or YouTube, just doesn’t look as good from a margin perspective.”

The move comes after Google released third-quarter financial results Thursday, the report revealed that, as its desktop search business matures, the company is pushing more emphasis on ad revenue from mobile searches. Google released third-quarter revenue of $14.89 billion, up 12 percent from a year ago. Net revenue, which excludes payments to ad partners, was $11.92 billion, up from $11.33 billion. Net income was $2.97 billion, or $8.75 a share, down from $6.52 a share. Excluding the cost of stock options, Google’s third-quarter profit was $11.92 billion, or $7.06 a share.

The results exceeded the ex-pectations of analysts, who had predicted revenue of $13.82 billion and earnings, excluding the cost of stock options, of $10.35 a share. Analysts said they had given more weight to revenue than to earnings, because they had an increasingly negative sentiment about Google’s ability to lift non-advertising revenue in which its results did not live up to their expectations.

Shares jumped more than 6 per-cent in after-hours trading.

Included in the results was an extraordinary $248 million operating loss at Motorola Mobility. Google has dramati-cally cut costs at Motorola and in-duced the MOTO X phone, but its losses are expanding.

By Claire Cain Miller

SAN FRANCISCO — For more than a decade, Google’s search advertising business has seemed almost magi-cal in its ability to grow at explosive rates. But the magic is beginning to wear thin as the company struggles to maintain its dominance on mobile phones and even on desktops threatens Google’s main business.

The company pleased analysts by announcing better-than-expected third-quarter financial results Thursday, but the report revealed that, as its desktop search business matures, the company is pushing more emphasis on ad revenue from mobile searches.

The result was an extraordinary $248 million operating loss at Motorola Mobility. Google has dramati-cally cut costs at Motorola and in-duced the MOTO X phone, but its losses are expanding.

By Charles Krauss

HOUSTON — In the sharpest challenge yet to the surging in-flaring of natural gas in the Bakken shale oil fields of North Dakota, the Environmental Protection Agency this week filed 30 class-action-law suits against the producers of the gas, about $760 million in lost royalties from some of the nation’s largest oil companies.

By Isabel Kershner

LONDON — A Syrian official says peace talks could resume in November that, last year, Turkey backed a $141 million contract to supply the Turks with its advanced aerial intelligence system. With cheap gas bubbling to the top with expensive oil, the companies have an economic incentive to build the necessary gas pipelines, but the suits accuse the companies of violating deadlines and other contractual obligations.

Oil companies and their local trade association say they are work-ing as fast as possible to build pipelines, and they note that the com-panies have paid more than 29 percent of the gas they produce, compared with 36 percent in 2011. Companies belonging to the North Dakota Petroleum Council announced the formation of a task force this week to increase efforts to reduce flaring. The group is expect-ed to present a report by the end of the year.

The lawsuit seeks to force oper-ators to comply with state law and pay royalties to mineral owners on the land where the flared gas is located.

By David E. Sanger

Since the 2006’s rise of $11.70 billion, the company has slowed its fast expansion of oil production in North Dakota.

The value of flared gas in the state is roughly $30 million a month, leading property owners who lease their land to the oil companies to believe they are losing money even though they are producing a natural resource.

In the fast expansion of oil production in North Dakota. Oil output has risen by 300,000 barrels a day since May.

The lawsuit, filed last month in the federal district court in Bismarck, N.D., seeks to determine the royalties from some of the nation’s largest oil companies.

By David E. Sanger

The $141 million contract to supply the Turks with its advanced aerial intelligence system, which led Israeli intelligence officers to believe that it could end up in the hands of hostile governments, like that of Iran.

The Israeli-Turkish friction stems from a turbulent region, which led Israel to believe it could end up in the hands of hostile governments, like that of Iran.

By Clifford Krauss

The favorite of flared gas in the state is roughly $30 million a month, leading property owners who lease their land to the oil companies to believe they are losing money even though they are producing a natural resource.

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LETTERS TO THE EDITOR

The government shutdown, political blame, and the US healthcare system

I take special exception to A. J. Edelman’s recent column on the shutdown and why it is “in the current liberal climate,” Democrats are being hypocritically indulging in “whining,” while the President “refuses to even sit down and negotiate,” even so being “assigned absolutely no blame.”

Let it first be noted that the current political situation is extremely volatile. On the very morning the opinion column appeared in The Tech and I sat down to write this reply (14 October 2013), came the news of a new “tune” in the discussions, and now confidence that a large scale negotiations are, if not underway, now deemed more likely than were a few weeks ago. There are also many news reports of massive disarray within the Republican party, of a “cave-in” on the debt ceiling problem, and of the disappointments of the “Defund Obamacare” war-cry of Tea Party Republicans and the abandonment of that goal. In other words, this very hour the Tea Party’s leaders may be sliding toward current turns of events and our views may quickly be undermined. Furthermore, it is very hard to generalize about what either the House, the Senate, or the President, at least what they might settle for.

Nevertheless, I am dismayed by Edelman’s gib-opinions. To start with, the anecdotal reports he cites can only be no means be taken to prove the shrill Republican warnings of “steep increases” in health insurance premiums once “Obamacare” takes hold. Nor can I let pass unmentioned his equation of the “hypocritical” stance of “free speech for me but not for thee” (the title of the whole column) with the projected liberal stance of “fee-me-but-not-for-them” when it comes to paying for health care. This is sophomores, not logical argument. At the very least, the reasoning behind the new health care law, which I find convincing as a starting-point, is that once everyone is made able to have health care insurance, medical costs will go down, and so will premiums. It is also intended that the poor be given access to health care without having to pay the same rates that the upper class and the middle class do. But it is the Republican-dominated states that are doing their best to forestall or deny these goals in multiple ways: by refusing to fund increases in the Medical Assistance Program, by not paying for indigent care, etc. It is they who are saying health care “for me,” but not for the poor. All of the (middle-class?) liberals I know (myself included) are more than willing to pay to make sure that the uninsured and the indigent are served.

We visionaries must continue to move forward to a system that exists in all other Westernized nations around the world. The kind of system that preserves the rights of all major Western religious argue for when they call upon us to feed the hungry, help the sick, shelter the homeless, etc. Sure, advocating for this as national policy is a “liberal” (or “left” or whatever you want to call it) point of view. But I am not hypo- critical about it. I believe it is right, and I am willing to pay my fair share.

In reality, there is no better way to provide affordable health care for all than through a single payer-system, but much Americans run from that idea as a horror, as if it means capitalism to some un-American socialistic system. So, for better or worse, the health care law that was passed is a massively complicated, multi-layered compromise. Of course it has flaws and bugs – but what large social welfare system doesn’t?

Flaws can be fixed, and systems can be improved. But what is there to “ne- gotiate” when the Republican position has simply been to do away with the law altogether? Republicans and Democrats are being unreasonable (“whining,” etc) in opposing a one-year delay of the law’s implementation. But is that what the Republicans really want? The law’s implementors have voted more than 40 times to revoke the bill entirely. Ted Cruz “filibustered” (sort of) to op- pose the law outright, with eager support of Tea Party representatives, and the inept and tactless support of establishment Republicans. And, remember, it is the House’s refusal to fund this law of the land and use that point to “draw a line in the sand” that led to the current shut down. Recent polls have made it clear...

CORRECTIONS

In an article from last Friday’s issue about the funding of the student humor magazine Voo Doo, an informal harassment complaint about a recapitulated mistake was mistakenly referenced as “The Voo Doo complaint,” and the Undergraduate Association (UA) investigated whether the magazine had committed sexual harassment, which the students obviously did not. The article also supposedly discussed whether to continue funding the magazine. The article also incorrectly said that the Association of Student Activi- ties (ASA) brought the complaint before the Office of the Finance Board (FIN), which in fact Finboard, some of whose members are also part of the ASA, acted independently.

The article also made several errors regarding the alloc- ation process. Five (not four) council members objected to the current faculty’s preliminary, and allocations for the current (and subsequently trimesterly) allocations were delayed by about two weeks (not one). The condition that Voo Doo representatives meet with Finboard and the Student Activities Office was unmet and applied two funding cycles ago (not during the current cycle). Mark D’Vincenzo and Jensen D. Wiksinsen of the General Coun- sel (not R. Gregory Morgan), recommended against this condition for future cycles. The May 2013 meeting between Finboard, and Voo Doo, which was also unrelated to the harass- ment complaint, took place before (not after) summer allocations were released. Cory Henderson ’14 is the treasurer of the UA and a former (not current) Vice-Chair of Finboard.’

The article also mistakenly referred to Voo Doo magazine editors, HUGEUM, and the Finance Board as “Voodoo,” “Ko- noko,” and “the Financial Board,” respectively.

OPINION POLICY

Editorials are the official opinion of The Tech. They are written by the Editorial Board, which consists of Chairman Sarah Ritter ’14, Editor in Chief Anne Cai ’14, Business Manager Joyce Zhang ’16, Managing Editor Ian M. Gorodisher ’15, and Executive Editor Deborah Chen ’14.

Editorials are signed opinions of editorial board members choosing to publish their disagreement with the executive opinion.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the author. All submissions are chosen, edited and published at the discretion of the editorial board. Submission deadlines are 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the author’s signature, address, and phone number. Unsigned letters will not be edited. The Tech reserves the right to edit or condense letters, shorter letters will be given higher priority. Once submitted, all letters become property of The Tech, and will not be returned.

Letters, columns, and cartoons may also be posted on The Tech’s Web site and/or printed in published in any other format or medium now known or that may be known in the future. The Tech reserves the right to edit or condense any other content.

Cyberspace lines, please, are directed to the appropriate person. You can reach the editor via editor@tech.mit.edu. Letters to the editor should be sent to letters@tech.mit.edu. The Tech can be found on the World Wide Web at http://tech.mit.edu.

Friday, October 18, 2013
that a large majority of Americans did not want Republicans to do this and blame them for the current mess. This is not due to “liberal media bias,” no matter how long Fox News and its friends cling to that delusion. It’s due to common-sense reading of the current situation.

Do we all really need to be reminded that the current shutdown occurred four years after the health care law was passed, two years after it was reviewed and upheld by the Supreme Court, and almost one year since the president’s reelection? And that the same election also saw the Republicans’ failure to take control of the Senate, despite massive spending to do so and a lopsided number of Democratic seats up for grabs? If the 2012 election was in part a referendum on the health care law (although this is an uncertain point at best), then the law was surely vindicated. Moreover, there are probably many Americans who do need reminding that a one-year delay in implementation of the small-business portion of the law has already been put into effect. Over the past few years there have been other compromises or alterations of what was originally hoped for, to placate different constituencies, right and left. The White House, if anything, has been too eager to negotiate in the past.

Furthermore, if Republicans were truly serious about wanting to negotiate over problems in the law, why have none of them put forward a bill giving a slate of particular reforms or changes? It would be much more reasonable for both sides to wait a year to see how the law does and does not work. Then, the parties might sit down and “negotiate” improvements. For far too many Republicans, the issue keeps coming down to doing away with the law, but without any clear alternative offered in its place, save for some sort of vague return to the status quo ante. (This would bring us back to the time when health costs continually skyrocketed, before the new law was passed.)

I suspect that much of the current Republican obstructionism has to do with a deep-seated fear that the law will indeed prove be an improvement over the current system, and that Americans will gradually come to take it for granted as much as they now do Social Security and Medicare. If so, Republicans will surely come to regret having labeled the law “Obamacare,” because it will redound to his credit. Once upon a time, Romney was praised for supporting such an initiative in our state, and his political fortunes rose. Has Massachusetts suffered dire consequences because of its health care law? Have our premiums soared because of it? Surely many Republicans are aware of this and wonder if they can stop the law from succeeding, except by dismantling it altogether. But whatever the basis for their fear, it seems to be a “non-negotiable” feeling that reasonable people can’t seem to fathom.

“For Me but Not for Thee” sounds like a great “mantra” to pin on Democrats. But it’s sophistry. What I and many Americans want is a system that is more fair and more just — “For you and for me, for one and for all.” Yes we are impassioned, but we are neither hypocritical, whiny, nor unreasonable. We are certainly willing to pay a little more in taxes, if that’s what is required to forestall excessive increases in the national debt, so long as the wealthy also be called upon to contribute more. (For the sake of keeping my letter from becoming way too long, I have left the debt issue out of this discussion, even though it is another key component in the current political crisis.)

We are not the ones who have repeatedly threatened to shut down the political process and to rupture the financial mechanisms underpinning our economy, just to insist we get our way. Nor do we lose hope that eventually a better way of doing things can be negotiated — despite the continual effort of far too many Republicans over the past several years to hold our entire political system hostage to its unclear, ever-escalating and fundamentally regressive demands.

Martin Marks is a Senior Lecturer in the department of Music and Theater Arts.
Somewhere in the Search for Meaning by Letitia Li

How's preparation for your med school interview going?

Quite well.

I intercepted the invites of everyone with the same interviewer.

So if you could all take a trip with me tomorrow...

Why do you want to be a doctor?

You see, my last name is HU, and I'm SUCH a sci-fi fan...

Q.E.D. (QUITE EASILY DONE) by Erika Trent

WITH COMPUTER

INTERNET ADVENTURER
CODING NINJA
MATLAB MASTERO
SOCIAL NETWORKING DIVA
PHOTOSHOP WHIZ
YOUTUBE STAR

WITHOUT COMPUTER

HARD DRIVE MALFUNCTION
BOOTUP FAILURE

ETERNAL SHUTDOWN

AIMLESS BAG OF CELLS

WE DO CALCULUS by Pachur Powell

THANKS FOR LENDING OUT WITH ME TODAY.

I WAS WORRIED IT WOULD NOT WORK WHEN I LOOKED OUTSIDE...

THANKS MY FRIENDS!

YEAH, I AM GLAD THAT THE ROOM CLEARED!

SOMETIMES I REALLY APPRECIATE WHEN I AM NOT SURE IF THINGS ARE GOING TO TURN OUT HOW I WANT...

...BECAUSE IT'S BEAUTIFUL WHEN I REALIZE THAT NO MATTER WHAT...

I GET WHAT I NEED.
Airborne Thrills

by Billie Truitt

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1 Milk dispensers
5 Dimple maker
10 Lifelong buddies, for short
14 Othello excerpt
15 “Don’t sweat it”
16 Doozie
17 Airborne activity
19 Slightly cracked
20 Familiar maxim
21 Off-road vehicle
23 Sphere starter
25 Likewise not
26 USMC rank
29 Airborne activity
35 Greenish blue
37 ATM maker
38 Pacesetter
39 Remove the groceries
41 Pixel
43 Hobbits’ home
44 Long green
46 Four-yr. conflict
48 Cherish
49 Airborne activity
52 Dudes
53 Albuquerque sch.
54 Chutzpah

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4 Taco topper
5 Winter sculpture
6 Work wk. start
7 Footnote abbr.
8 Jacket part
9 Easter ritual
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11 Japan’s highest peak
12 Intense criticism
13 “You bet!”
18 Vow
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24 One way to deliver data
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28 Piper’s drum
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31 Wonk’a’s creator
32 Linguistic quirk
33 Chutzpah
34 Emerald or olive
35 Carol syllables
40 Prepare for a road trip
42 Bit of kindling
45 Use needle and thread
47 Pressed for time
50 “No harm done”
51 Latch (on/ off)
55 South American capital
56 Big first for Junior
57 Own
58 Larger-than-life
59 Entrees for others
60 Yield to pressure
61 Baja resort
62 Urgent
63 Bus StopPlaywright
64 Teamwork obstacles
67 Deep black

Sudoku

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Techdoku I

Solution, page 19

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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.

Techdoku II
Solution, page 19

Techdoku III
Solution, page 19

Techdoku IV
Solution, page 19
MIT’s 2nd Annual Undergraduate Case Competition

November 7th, 5-10PM | 1-190

Showcase your presentation skills, network with professionals, and jumpstart your career with several of the most prominent consulting firms!

Open to sophomore and junior undergraduates. Judges will consist of company representatives.

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To learn more:
Information Session
10/21, 7PM
4-149

To compete:
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ARTS  

SYNTH-POP BEATS OF SCOTLAND

CHVRCHES delivers a sold-out debut album

Denis Bozie

Lauren Mayberry, Ian Cook and Martin Doherty, otherwise known as the Glasgow-based synth-pop band CHVRCHES, have entered the music scene quite with a fanfare. After the relatively unrecognized premiere release of the singles “Lies” and “The Mother We Share” in 2012, the band suddenly took over headlines in early 2013. BBC ranked them fifth in their poll “Sound of 2013,” after which the band released their EP ‘Recover’ to positive critic reviews, and within a few months CHVRCHES were also touring around the world.

Although the three Scots do not come from similar musical backgrounds (all three of them were involved in different musical projects prior to forming CHVRCHES), they are specific about the type of music they make together: dance and synth-pop. Their debut album ‘The Bones of What You Believe’ could easily be described in terms of these two genres, but it would be unfair to disregard the nuanced complexity and unique sound expressed in their songs. The closest reference to the specific musical elements of CHVRCHES would be the Depeche Mode — there is a prevalence of the Depeche-like synth-pop sounds, and Depeche Mode instills an observable sense of upbeat melodies and dance floor-oriented beats. This nuanced complexity stems from two unique factors: highly-polished production, and Mayberry’s unique voice.

The album’s first track, “The Mother We Share,” gives a great overture to the album and exposes the brilliance of the band’s production. It is a synth-pop song exchange in an interplay of slow buildup and upbeat, fast-flowing lyrics “I’m in misery where you can seem as old as your own name / And the mother we share will never keep your proud head from falling.” The well-defined production is easily seen in these outbursts of rhythmic choruses, but the most meticulous efforts of production are showcased in the smallest details. “Recover,” for example, dives in a few seconds of silence after the chorus, but with careful attention one can notice that the silence is supported by pulsating strokes, the melody was full of emotions and seemed to convey inner feelings about burst. I was able to follow the structure of this symphony and recognize the transitions between movements, the slow tempo of the second movement, and the dance-like beat of the third movement. Perhaps I still retained some knowledge from music class after all.

As expected, the highlight of the Farewell Symphony came at the end, when urgent and powerful phrases gave way to thinner and thinner sounds, until even the conductor himself walked off the stage to laughter, leaving two violinists to finish an entertaining and existing piece.

Following a short intermission, the musicians played the main attraction of the concert — Pictures at an Exhibition by Modest Mussorgsky, arranged by Maurice Ravel. The piece portrays a walk through an exhibition, interlacing the “promenade” movement with movements that depict the individual pictures by the artist Víctor Hartmann. Having never heard the piece, I did not know what to expect in each movement and found myself on the edge of my seat, following the ups and downs of the performance. Some parts featured prominent percussion sounds that set an ominous tone, while others highlighted instruments such as the flute and the harp. A common theme throughout was the power of the orchestral orchestra.

My favorite part of musical performances has always been the visual element, and this concert did not disappoint. The first performed the importance of bow movement synchronisation, I paid particularly close attention to the bow movements of the string players, and especially enjoyed the variety of long and short notes that required very different types of the bow. However, I was very surprised that the musicians maintained stern facial expressions, regardless of whether the music was catchy or dark. It was not until the standing ovation and loud applause at the end of the concert that I saw a crum. I enjoyed the concert very much, but actually attend the performance by most of all were the students on stage. How do they find the time to practice? Sometimes, it is easy to forget that our peers have talents beyond taking derivatives and building robotics, and may be a school full of top-notch engineers, but if you ever attend a MITSO concert, you would learn that we are also a school full of talented musicians.

The highlight of the Farewell Symphony came at the end, when urgent and powerful phrases gave way to thinner and thinner sounds, until even the conductor himself walked off the stage to laughter, leaving two violinists to finish the piece.

I found this piece to be quite forgettable. Before the start of the second piece, the conductor Adam Boyles introduced himself and the orchestra. He then gave the audience some background on the Brahms piece, noting that it was actually only a librettist’s guess that Haydn had composed the theme from which the variations are based. Nowadays, this piece is commonly known as St. Anthony Variations to avoid any confusion. A great storyteller, Boyles moved on to describe the second piece of the concert, Symphony no 45 (Farewell) by Haydn. I learned that this was a piece of protest music that Haydn had composed to hint to his patron that the musicians were tired and wanted to leave. To accomplish this, Haydn departed from the standard structure of the genre and instead features an adagio ending. During this finale, musicians drop out one by one until only two are left. In addition, the conductor pointed out that the string players would hold their bows differently to recreate the effects of playing with shorter bows back at the beginning of the piece. When the first movement began, I immediately recognized the strings’ recurrent line. Marked by strong and powerful File Edit Options Buffers Tools Im-Python Python Help import new_skills def learnMarketableJobSkills(): return linear, OSX, Javascrip, appscript, perl, python if you.interest == True: print ‘E-mail join@tech.mit.edu’
Much to the MFA's chagrin, the Brooklyn Museum purchased the entire contents of the first in 1909. Not to be outdone, the MFA determinedly acquired all the watercolors from his 1912 exhibit. At the time, it was the largest collection of any living painter acquired by the museum.

The turn of the 20th century competition between the museums is certainly a boon for us today. Having been conveniently concentrated the bulk of Sargent's watercolors between them, this is the first time the two collections have been exhibited together.

Sargent's confident, bold strokes, loosely defined forms, and unexpected vantage points were contrary to contemporary aesthetic standards that called for carefully delineated landscapes and translucent washes in watercolors. One reviewer proclaimed him "an eagle in a dove-coat," shaking up norms for the medium.

The first part of the exhibit is organized geographically. It starts with watercolors from Venice, one of Sargent's favorite places to work; he painted more watercolors here than anywhere else. Two renderings of the Baroque-style Basilica Santa Maria della Salute hang side by side. Sargent painted both at the same time, but from different vantage points and using different brushstrokes. One, with tighter, more finished-looking brushstrokes, is from the Brooklyn Museum's collection, and the other, with more blurred forms and blended colors, is from the MFA's collection.

Sargent's watercolors from the Middle East dominate the next room. Traveling without the usual entourage of family and friends, he began by visiting popular Biblical tourist sights, but found more artistic inspiration west of the Jordan River among the Bedouin natives. In his iconic Bedouins, depicting two Bedouin men staring intently at the artist, he carefully renders their facial expressions and the folds in their garments, but leaves the scenery and lower quarter of the painting seemingly unfinished. Bedouins, and his other watercolors from the region, stood out from those by other Western artists in that they do not portray the "middle eastern dystopia" (Jean-Léon Gérôme's The Snake Charmer et al.).

Thereafter, the exhibit is organized by theme. Another room contains figures lying down. Sargent depicts his sister after a strenuous mountain hike and his friends dressed in Palestinian outfits in the Swiss Alps. Clearly Sargent was fascinated by white-on-white watercolor, something I imagine he took as a technical challenge. The cover painting of the exhibit, Simplex Pax: Round, showing the young woman's white skirt comprised two thirds of the composition. In others, the ladies' skirts make a landscape of their own, with folds that echo the rolling grassy hills and mountain range.

Sargent was also keen to capture light on different surfaces. Hanging next to each other are an oil painting and watercolor of a babbling brook that he painted the same afternoon (Val d'Assia, A Stream over Rocks). Sargent was unique in his time for treating watercolor not just as a preliminary medium for oil paintings, but as final works in their own right. Val d'Assia was contemporary with Toulouse-Lautrec's version, and the exhibit helpfully hangs a small picture of Monet's piece next to Sargent's work for comparison.

Other themes in the following rooms include light on stone, watercraft, and Italian gardens. His watercolors from the quarries of Carrara, a source of fine sculpture marble since ancient times, border on the abstract, highlighting the light and edges in the scenery. The quarries were certainly not a tourist destination. Hirshler explains "Sargent didn't paint to travel, but rather traveled to paint."

Although Sargent was bored and frustrated with the formulaic portraiture he created for wealthy patrons ("swagger portraits" as one reviewer called them), there are still some portraits in his watercolor exhibit, all of a different character. A Trump shows a vacant, up close, staring intimately at the viewer. Sargent depicts his subject with subject and beauty but without the costume and definitely without the "swagger." It hangs across the room from The Cashmere Shawl, which is closer to his traditional portraiture, and shows a tall, confident woman in front of a rusticated wall, wrapped in an exquisite shawl.

The exhibit also contains a few selected watercolors by Sargent's friend Edward Degas and the Boit in a "learning gallery," followed by a film of an artist recreating Sargent's White Slips. In addition, the MFA is hosting painting classes in Sargent's style along with gallery talks throughout the exhibit's tenure.

Hirshler says she hopes the exhibit will inspire visitors to turn into sunlight a little differently; she hopes we'll notice it on stones, columns, homes, and gardens with a fresh, painterly eye. Certainly this is what Sargent did that for me. It also gave me a greater appreciation for Sargent's artistic courage, and made me feel like an intimate fellow traveler on his artistic journeys.
Overcoming failure to succeed, Pixar-style

By Karleigh Moore

The Tech talks to the producer of Monsters University

Kori Rae, the Pixar producer of Monsters University.

It shows us that even when we experience what seems like crushing defeat, new doors open to us, and new destinies reveal themselves.

On a deeper thematic level, Monsters University is about having goals, doing everything you can, and everything “right,” to achieve them, but ultimately not being able to. For Mike, this means devoting his life to studying and learning as much as possible about “Scare Theory” and “Scare Techniques” so that he can become the world’s best “Scarer.” He gets into one of the most elite colleges, Monsters University, but unfortunately his luck takes a turn for the worse when he is quickly removed from the scare program because he simply isn’t scary. Monsters University shows Mike’s journey as he experiences defeat and major setbacks, and has to change his plans. This movie is about figuring out who you are, who your friends are, and what you are meant to do. It shows us that even when we experience what seems like crushing defeat, new doors open to us, and new destinies reveal themselves. In fact, this theme was quite personal to Rae, and similar to the situation she faced when her basketball dreams could no longer become a reality. Mike wants to be a Scarer, he ends up an incredibly successful asset to Sulley and Monsters Inc. in a role as “Scare Support.” Similarly, Kori Rae wanted to play basketball, but she ended up at Pixar as an incredibly successful producer. Which goes to show, as one door closes, you never know what kind of opportunities await through another door.

In all, Monsters University is a great film, and Pixar delivered an excellent story and messenger. If that doesn’t convince you to go and watch it, maybe this will — when searching for inspiration for the campus of Monsters University, the Pixar team headed to New England to tour MIT and Harvard. The element was quite unusual. Monsters University was perceived as a PG, but I couldn’t quite tell what inspiration the team gleaned from good old TFP, so I asked Rae what was incorporated from MIT, to which she responded, “The disgusting frat house scene. But I think the best was the movie and keep your eye out for elements of MIT in Mike and Sulley’s bedroom.”

Minimalism and transient intimacy realized

José Mateo showcases a triplet of darkly expressive pieces

The José Mateo Ballet Theatre of Cambridge opened its 21st season, renowned for its inimitable performances of the 2013–2014 season. Shadows Fleeting features three unique works — Dark Profiles (2003), Covens (2006), and Vanishing Verses (premiering this season) — by José Mateo, the company’s impresario, choreographer and artistic director. The recurring theme of the night was exploring the darker side of Mateo’s choreographic creativity.

The night’s opener, Dark Profiles, is set to one of Beethoven’s lesser-known and least accessible string quartets, Grosse (Ground) Fuge in B Flat. The work’s choreography, like its rahym, is complex. The work’s choreography, like its rahym, is complex. The work’s choreography, like its rahym, is complex. The work’s choreography, like its rahym, is complex. The work’s choreography, like its rahym, is complex. The work’s choreography, like its rahym, is complex. The work’s choreography, like its rahym, is complex.

The only discernible plot line of the night’s program seems to suggest Angie DeWolff’s fleeting flirtations with David Dubois in a world of silence and tranquility. Their duet performance is passionate yet elegant.

The second act, Covens, features James MacMillan’s more accessible and resonant Symphony No. 3, a surprisingly good choice for ballet stripped of its grandeur and elitist embellishments. The only discernible plot line of the night’s program seems to suggest Angie DeWolff’s fleeting flirtations with David Dubois in a world of silence and tranquility. Their duet performance is passionate yet elegant.

The finale is to the world premiere of Vanishing Verses, choreographed by Mateo, as he candidly admits, in less than two weeks of rehearsals, and set to the crisp, clean, virtuosic tonality of J.S. Bach’s Cello Suite in D Major. The relentless emotional amathias and castings begin with the couples without resorting to long gazes or extended silences. Their technical details. To be sure, the jumps are not as high and the turns not as sharp, as they are not as heavy, forced or tortured about their movements.

To anticipate Vanishing Verses, one must resist the temptation to dissect the duets to their technical details. To be sure, the jumps are not as heavy, forced or tortured about their movements.

To anticipate Vanishing Verses, one must resist the temptation to dissect the duets to their technical details. To be sure, the jumps are not as heavy, forced or tortured about their movements.

The venue, the Sanctuary Theatre, is nestled within the walls of the imposing New Gothic architecture of the Old Cambridge Baptist Church in Harvard Square. However, the all-white, sparse set design, and the minimalist décor, juxtaposed with cabaret-style seating right onto the stage, gives the interior spaces a very deep intimate feel, where one almost feels the pulsation of the dancers’ breathing, the palpitation of their heart beats, and the condensation of their sweats on their foreheads.

Mateo’s ballet productions may lack the weight and monumentalism of classical ballet, but he attempts to compensate for this lightness with daring origami intimacy, and choreographed deconstruction of ballet to its essential forms, without fluffy costumes, elaborate decorations or glittery ornaments.

If the legacy of the legendary Ballets Russes is sometimes described as “when art danced with music,” then the legacy of a quarter-century of José Mateo’s Ballet may very well be described as “when bare movement romanced with music.”
La Scala Chamber Orchestra performs at MIT

From Italy to Kresge

Friday, October 18, 2013 The Tech

under the auspices of the Italian United States, " a cultural initiative concert was also part of the "2013 solar energy research at MIT . The Center is accelerating innovative research sponsor. More than sixty Eni-MIT Energy Fellows and more than sixteen graduate students have been supported by Eni since 2008, than 100 graduate students have been supported by Eni since 2008, and Eni-MIT Solar Frontiers Center is accelerating innovative solar energy research at MIT. The concert also was part of the "2013 — Year of Italian Culture in the United States," a cultural initiative under the auspices of the Italian Presidency, and organized by the various Italian ministries. The Orchestra's tour will include performances at Carnegie Hall and the Library of Congress, among other locations.

The artistic program began with a piece by Giovanni Avolio (1866), a mostly forgotten composer contemporary of Verdi, who wrote many fantasies of operas for violin and cello accompanied by piano. The Orchestra performed his Fugato (1883) a gentle, melodic, and complex tone including a pizzicato string plucking section producing percussive sounds.

The last piece was Antonio Bachini's (1810-1897) fantasy for violin, orchestra and piano La Traviata op. 30 (1865). He was professor of composition and director of the Verdi's Bicentennial Tour is underway by a generous gift from Eni, Italy's largest integrated energy company, a found- er of the MIT Energy Initiative (MITEI), and its largest research sponsor. More than sixty Eni-MIT Energy Fellows and more than sixteen graduate students have been supported by Eni since 2008, and Eni-MIT Solar Frontiers Center is accelerating innovative solar energy research at MIT.

The artistic program began with a piece by Giovanni Avolio (1866), a mostly forgotten composer contemporary of Verdi, who wrote many fantasies of operas for violin and cello accompanied by piano. The Orchestra performed his Fugato (1883) a gentle, melodic, and complex tone including a pizzicato string plucking section producing percussive sounds.

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Fantasies From

Verdi's Operas

By La Scala Chamber Orchestra

Kresge Auditorium

Oct. 7, 2013

Milan's Conservatory, where Puci
cini the other great Italian operatic composer was his student. He was better known as one of the finest Italian concert violinist of the 19th century. The sensa-conductor performed was led by the group's so- list, violinist Francesco Manara and cellist Massimo Polidori, both of whom are first musicians in the first sections of the La Scala Philharmonic Orchestra, and are internationally acclaimed con- cert performers. The director and violinist Gianluca Scandola led the efforts to collect and adapt the instrumental pieces for chamber orchestra.

The mostly well-heeled full house audience was enthralled by the performances and gave three standing ovations applause, in- cluding two for encores arranged by the group's violinist Gianluca Scandola, the first one was from Verdi's Rigoletto, and the second one was the "Triumphal March" of Aida, which brought the audience to its feet for the final claps.

EVENTS

FRIDAY

(6:00 p.m.–6:30 p.m.) Architecture/Computation Lecture: Pablo Garcia, "A Brief History of Drawing Machines," Since 1425. — 7-429

(6:15 p.m.–6:30 p.m.) Ancient & Medieval Studies Speakers Series | Form as Theory: The Case of Medieval Beaux Arts — 140-304

(5:30 p.m.–6:30 p.m.) Rob La Frenais: Future of Transport/Transport of the Future — E15-207, Wiesner room

(8:00 p.m.–9:30 p.m.) Jose Mateo Ballet Theatre presents Shadows Floeting — Sanctuary Theatre, Harvard Square

SATURDAY

(8:00 p.m.–9:30 p.m.) Joseph Mateo Ballet Theatre presents Shadows Floeting — Sanctuary Theatre, Harvard Square

SUNDAY

(8:00 p.m.–11:00 p.m.) International Folk Dancing — Sala de Puerto Rico

MONDAY

(2:00 p.m.–4:00 p.m.) Bobby Few and Don Byas Featured on WMBR's Research & Development Program — 88.1 FM WMBR Radio

(7:00 p.m.–9:00 p.m.) ACT Lecture | Lovett/Codagone: Re-adapting Cinematic Traces — E15-001

(7:30 p.m.–9:30 p.m.) Angels in America, an Its ALIVE reading — 14W-111

TUESDAY

(5:00 p.m.–7:30 p.m.) Places in the Making panel discussion — E15, Bartos theater

(7:00 p.m.–8:15 p.m.) Australian Short Film (FREE admission) — 10-250

(7:00 p.m.–9:00 p.m.) Harmonic co-founder presents Rock Band and Beyond — Cambridge Innovation Center

(8:00 p.m.–10:30 p.m.) Klezmer Contra Dance with live music! — W20-491

WEDNESDAY

(5:00 p.m.–6:00 p.m.) MTA Composer Forum presents: Martin Marks, MIT Senior Lecturer in Music and Theater Arts — 14E-109, Lewis Music Library

(8:00 p.m.–11:00 p.m.) Israeli Dancing — W20-491

THURSDAY

(6:30 p.m.–8:30 p.m.) Architecture/Allen Lecture: William F. Baker, "Geometry, Structure and Architecture" — 10-250

(7:00 p.m.–9:00 p.m.) Urban Films: Good Fortune (2010) — 3-133

(8:00 p.m.–9:30 p.m.) Jose Mateo Ballet Theatre presents Shadows Floeting — Sanctuary Theatre, Harvard Square

(8:00 p.m.–10:00 p.m.) Screening of “Three Colors: Blue” by Krzysztof Kieslowski — 4-231

Send your arts events to arts@tech.mit.edu
Undergraduate representatives for Institute Committees selected

The Undergraduate Association (UA) Council and Chair of the Faculty Steven Lavelle approved In- stitute Committees' undergraduate representatives Sept. 25. These students were chosen through a “competitive selection process by the UA’s Nominations Board,” according to UA Chief of Staff Shruti Sharma ’15. MIT Institute Com- mittees — which are run by the faculty or administration and include undergraduate and gradu- ate representatives — address a variety of issues at MIT. Student representatives are usually voting members and are intended to “ensure that inter- ests of the student body are un- dersolved and actuated upon by the committee,” according to the UA’s Institute Committees application document. Among the new Insti- tute Committees this year in the Presidential Advisory Cabinet.

Presidential Advisory Cabinet

- Sidhanth P. Rao ’14
- Thomas D. Alcorn ’14
- Elise M. Myers ’14
- Castrin A. Mackey ’15

Corporation Joint Advisory Committee

- Sidhanth P. Rao ’14
- Anika Gupta ’14
- Leonard Grinberg ’14

Faculty Policy Committee (FPC)

- Patrick A. Hulin ’14

Committee on the Undergraduate Program (CUP)

- Anubhav Sinha ’14
- Anna Y. Ho ’14
- Benjammin S. Frank ’14
- Colin P. McDonnell ’16

Committee on Curricula (COC)

- Colin P. McDonnell ’16
- Benjamin S. Frank ’14
- Anna Y. Ho ’14
- Laura D. Boyden ’14
- Betzy Riley ’14

Committee on Undergraduate Education and Experiences (COUHES)

- Laura W. Zhou ’14
- Mahesh Thapa ’15

Committee on Student Life (CSL)

- Jessica J. Yang ’15
- Ranna W. Zhou ’14

Committee 2013-2014

- Ranna W. Zhou ’14
- Anubhav Sinha ’14
- Patrick A. Hulin ’14

Committee on Academic Performance (CAP)

- Susan H. Cavender ’15
- Laura D. Boyden ’14
- Betzy Riley ’14

Committee on Student Life (CSL)

- Jessica J. Yang ’15
- Ranna W. Zhou ’14

Committee on Undergraduate Admissions and Financial Aid (CUAFA)

- Priyanka M. Chatterjee ’15
- Ian W. Chester ’16

MacVicar Advisory Committee

- Jonathan K. Teubes ’14
- Betzy Riley ’14

Medical Consumer’s Advisory Board (MCAB)

- Tushar V. Kamath ’16
- Shruti Sharma ’15
- Danielle V. Finney ’16

Institute Wide Taskforce on Education (IWT)

- Devin T. Cornish ’14
- Anubhav Sinha ’14
- Patrick A. Hulin ’14

Admissions and Financial Aid

- Alice M. Zielinski ’15
- Sophie H. Chung ’14

Campus Energy Task Force

- Karen D. Hao ’15

MITx Subcommittee

- Ravi M. Charan ’14
- Colin P. McDonnell ’16

Credible Education Taskforce (CET)

- Rachel C. Reed ’14
- Laura D. Royden ’14
- Colin P. McDonnell ’16
- Laura D. Boyden ’14

Committee on Race and Diversity (CRD)

- Jean Xin ’14

Committee on Student Health, Safety, and Security (SSS)

- Cheryl A. Biddle ’15
- Laura D. Boyden ’14

IS&T Vice President Search Committee

- John M. Damarin ’15
- Elisa M. Myers ’14

Electronics Record Committee

- Eric M. Fisk ’15

Committee on the Use of Humanities and Social Sciences as Experimental Subjects (CHSS)

- Shruti Sharma ’15
- Laura D. Boyden ’14
- Sidhanth P. Rao ’14

Committee on the Undergraduate Program (CUP)

- Shruti Sharma ’15
- Laura D. Boyden ’14
- Patrick A. Hulin ’14

Committee on the Undergraduate Program (CUP)

- Shruti Sharma ’15
- Laura D. Boyden ’14
- Sidhanth P. Rao ’14

MIT Council on Educational Technology (MITCET)

- Jennifer Li ’14

Student Life Orientation Program (SLOPE)

- Nancy Z. Lu ’14
- Martha D. Kerlin ’15

First Year Experience Program (FYE)

- Amy Q. Zhang ’16
- Bill Ndengeyingoma ’15

Athletics

- Jonathan K. Tebes ’14
- Shira Smith ’15
- Georgina Dorminy ’14

Technology

- Daniel S. Wang ’16
- Elise M. Myers ’14
- Anubhav Sinha ’14
- Sidhanth P. Rao ’14

MIT Council on Educational Technology (MITCET)

- Jeef Tsu-Hsien Chan ’14

Committee on Student Information Policy (SIP)

- Hussein M. Abdallah ’15

IS&T Advisory Board (ISTAB)

- Jacob B. Hurwitz ’14

OCW Faculty Advisory

- Vinit A. Chakradhar ’16

Student Health Advisory Committee

- Jennifer Li ’14

Committee on Family and Work Programs (CFWP)

- Vinayak Sampath ’15

UA Nominations Board

- Shruti Sharma ’15 (Chair)
- Devlin T. Cornish ’14
- Patrick A. Hulin ’14
- Laura D. Boyden ’14
- Anubhav Sinha ’14
- Sidhanth P. Rao ’14

Council on Student Informa- tion Policy (SIP)

- Devlin T. Cornish ’14
- Laura D. Boyden ’14
- Anubhav Sinha ’14
- Sidhanth P. Rao ’14

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Committee on Housing, Food, and Health (CIFH)

- Jennifer Li ’14
- student representatives are usu- ally voting members and are intended to “ensure that inter- ests of the student body are un- dersolved and actuated upon by the committee,” according to the UA’s Institute Committees application document. Among the new Insti- tute Committees this year in the Presidential Advisory Cabinet.

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MITENERGYNIGHT.ORG
Bexley Hall recommended for permanent closure
Students hope to preserve dorm’s culture; administrators also indicate similar goals

Bexley, from Page 1

visory group, the membership of which consists of Kristjan Eerik E. Kaseniit ’14, Christopher J Sarabalis ’14, Nicolas M Brown ’16, and Noga Feinberg ’15 representing Bexley, DormCon President Eli H. Rose ’14, and Vice President for Residence Exploration Alina Kononov ’14 as student representatives. Much of the time in the meetings was spent going through the facts and figures that Facilities had collected in their evaluation process.

“I had the opportunity to review facts regarding Bexley’s structural concerns through engineering reports, pictures, and presentations,” Ross said. “The damage was indeed quite substantial, and I applaud DSL and the Department of Facilities for taking the time to go through these details with the group.”

Although the members of the group were well-informed of the situation regarding Bexley up until this point, they did not hear about the recommendation to demolish Bexley until only slightly before Chancellor Eric Grimson PhD ’80 announced the news to the broader Bexley community in an email. Kaseniit said that although the recommendation was not a surprise, “The decision to demolish was made based on no input from us.”

“We were concerned that the decision to demolish versus renovate was done so hastily, especially given that demolishing leads to a plethora of options for the land, while renovation leads to the creation of a new dorm,” Kaseniit said. “We were told that there is no evil master scheme in the works behind the curtains, and it is the potential hidden costs that make demolition cheaper than renovation.”

Next steps

Both Grimson and Dean of Student Life Chris Colombo expressed that there will be new undergraduate dorm to replace Bexley should these plans to demolish the building go through.

“We need to figure out how to replace the lost beds. That is a key priority for Dean Colombo and me,” said Grimson.

While a new building may not be on the same site that Bexley currently occupies, the hope of students and administrators is that Bexley’s community will continue. Currently, former Bexley residents have space in the Pritchett Lounge in Walker Memorial to use for gatherings and events 24/7.

“We are glad we get to use the Pritchett Dining space, though there are still some kinks in communication with the various administrators with regards to our use of the space,” Kaseniit said. “An important issue in keeping a community going, as I’m sure many living groups here know, is the influx of like-minded people. This is somewhat hard for Bexley, given that many of us are strong individualists. We are already seeing new faces at our shenanigans in Pritchett, which is great. However, this must be more seriously discussed in any future advisory groups regarding Bexley.”

Colombo and Grimson both said that they are doing what they can to support the Bexley community through this rough time. The lounge space is only the first step — Grimson is working to convene a group to look at all of undergraduate housing at MIT, including looking at solutions for how to approach the situation if Bexley is demolished.

“I believe that at that MIT, there should be a Bexley,” Sarabalis said.
Students, professors shed light on new biology GIRs

New 701x variations target more fields, geared towards different biology backgrounds

Biology, from Page 1

"Personally, I find the level of detail we go into in lecture really cool," said "But the best part is the guest lectures. Every so often, a scientist in a field related to the current module comes in and gives a talk on their research and work."

Ookumura teaches the course alongside Professors Michael Leub and Hilde Ploegh. The course is designed around six modules: antibiotic resistance, influenza, genetics and genomics, biotechnology, the microbe, and diabetes.

"With those six lenses, we're able to teach all the fundamental principles of biology and how these principles relate to the biology that goes on all around us in the world and that you see in the news all the time," Ookumura explained. "It really makes it relevant. We get at that relevance by reading popular press articles and having discussions and having students do in-depth presentations about particular topics within those fields."

The idea for the course was first floated around two years ago by Chris Kaiser, then head of the Department of Biology. However, Ookumura says it wasn't until a year ago that the design for the course really got underway. The module topics were picked based on their relevance in the news, the professors' expertise, and the shared requirements for an intro biology course.

There are currently 46 students enrolled in the mostly freshman class, a smaller number than the instructors were initially expecting. "I think there are a few factors that went into that," Ookumura said. "I think, first of all, students are less inclined to take a course that hasn't been offered before because they don't know what to expect. I also think that the word got out on the street somehow that this was the harder class. Nobody can really say that. Nobody's taken this class before, so there's no way to know if it's actually harder or not."

"I was annoyed by the fact that we were required to buy a different iClicker than the one most people use in 8.01TEAL, " commented Teresa C. Hegarty '17. "I think it would make more sense to use the same type of clicker system. "

Hegarty added that she was happy to have a surprising amount of fun teaching an introductory biology class so far. "It's really cool to see the real-time applications of the concepts we're learning — it's a great reminder that we're learning material that's extremely current and relevant in the field of biology today," added Kenanissu.

Of the two new bio classes offered in the fall this year, 7.016 more closely resembles 7.012.

"I think it's a real honor to have all these freshmen in our class," said Imperiali. "We get to give them a great course in the first semester that they're at MIT."

One of my goals for the class was to take topics in biology that are in the news, that people are thinking about, that are on the cutting-edge of medicine, and sort of connect it to the basics and use them as tools to teach people basic biology," said Amon. Both Amon and Imperiali said that they had had a surprising amount of fun teaching an introductory biology class so far. "I think it's a real honor to have all these freshmen in our class," said Imperiali. "We get to give them a great course in the first semester that they're at MIT.

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7.016

Of the two new bio classes offered in the fall this year, 7.016 more closely resembles 7.012 in lecture, homework, and recitation style. Like 7.012, 7.016 is geared towards students with or without a background in biology. Professors Barbara Imperiali, Angelika Amon, David C. Page, and Dr. Divya Sinha have taken the helm in developing and teaching the new class.

"For several years with biology being made an institute GIR, the class that was being run in the fall was truly overburdened," explained Imperiali. "The numbers were too large and we were having to video-remotize the class. The department made a commitment to the Institute that we would run another large class so that every student would have the chance to be in the classroom and participating directly rather than through a remote system."

In addition to easing crowding, the class is piloting the use of clickers in an intro bio class to try and receive real-time feedback. However, some students have expressed frustration at having to buy the iClicker 2's. "It's very first class at MIT," said Amon.

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Both Amon and Imperiali said that they had had a surprising amount of fun teaching an introductory biology class so far. "I think it's a real honor to have all these freshmen in our class," said Imperiali. "We get to give them a great course in the first semester that they're at MIT."

"I think it’s a real honor to have all these freshmen in our class," said Imperiali. "We get to give them a great course in the first semester that they’re at MIT. We realized the first day of class that it was probably their very first day at MIT."

Amon added, "We said to them in the beginning, ‘My goal is to make all of you Course 7 majors.’ That has to be the goal — to get people excited and interested in biology."
New sustainability office starts strong

Newman excited for innovating sustainability here at the Institute

at Yale, Newman wants to make a distinction between her previous work and her work here. “What I do at Yale, I’m not going to do at MIT, because MIT is its own entity. I want to bring a wealth of experience to MIT, want to make sure the framework that I develop reflects the culture and mission of MIT. There will be so much that will be similar, but also opportunities for different types of leadership,” said Newman.

She hopes that the dedication to new models and innovation will translate well into sustainability research, paving the way for a cutting-edge approach to sustainability. “A robust, innovative sustainability program here is going to approach all of these issues from a systems perspective first; we will figure out where is the best lever point for the biggest impact, and that really changes the game,” said Newman.

Newman hopes to use her experience to “bring a new voice to the table, asking different questions and having new ideas.” For Newman, the excitement comes from the complexity of the situations and her ability to solve them systematically. This includes analyzing each realm of sustainability, and then bringing the proper expertise in to provide a resolution.

Newman is already busy assessing the current infrastructure of the university, engaging faculty to find new approaches to sustainability, and planning out a comprehensive roadmap for sustainability at the institute. “In a couple of months people will start to see a framework for the office that’s interact with folks around campus; I hope to engage people and say, ‘Can we think of this differently?’” said Newman.

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heat, cold water, and electricity to
MIT since 1995. Powered by natu-
ral gas, it contains boilers, a com-
bustion turbine, and an emergency
generator. MIT plans to retrain employ-
ees who monitor emissions and opacity, implementing biannual refresher training sessions for staff. Furthermore, MIT will upgrade the exhaust stacks for natural gas boil-
ers and emergency diesel engines by the end of this year, increasing the height of the stacks and add-
ing vertical vents. The plant will also either insert active particulate matter filters on the diesel engines or remove them by March of next year.

“We have already implement-
ed a number of changes and an-
ticipate that we will be able to
complete the remaining work
by the deadlines set forth in our
agreement,” said VanSchalkwyk,
which means that in the following
months, students can expect even
more construction at MIT.

MIT fined for plant
emission violations
Cogen plant to retrain employees,
upgrade exhaust stacks, venting

Air quality, from Page 1
The story of New England’s forests

By Dave Rolnick

I’m from Vermont. My state has many trees and a few people. When you combine those two things, you get delicious maple syrup. In October, you also get hoards of tourists — the so-called “leaf peepers.” Vermont calls itself the Green Mountain State, but it is really now, when the mountains call themselves the “fall foliage state,” that tourists — the so-called “leaf peepers” — descend on the state. Vermonters get to enjoy delicious maple syrup and an incredible display of color, think about glaciers as you admire the carotenoids, and have a lot of fun while they’re at it.

As the trees of New England change color, think about glaciers as you admire the carotenoids. Even at MIT, fall foliage is quite spectacular.

The smooth, pale gray bark, which lores sometimes write on, is also adaptation to the tropics, where it stops the tree from being overrun by vines and other plants looking for a foothold. Unfortunately, smooth bark is a terrible idea in a northern winter, since it splits easily in the cold. Almost every other tree here has ridged bark, which can expand and contract with temperature changes.

The valleys of New England were vast lakes only a few thousand years ago, filled with meltwater from the retreating glaciers. These lakes have started extinguishing forest fires, they’re lightly burned first. Now that people have started extinguishing forest fires, some of these trees are having a hard time competing.

The beautiful American beech is another tree that colonized these south-facing slopes. It isn’t a fire-resistant species; it just wanted to stay warm. Bees come from the tropics, and this species is the northernmost of its kind. However, it still looks like a rainforest tree. It has huge, broad branches, perfect for climbing, and long-tipped leaves that channel the rain away.

The story of New England’s forests

A glacier’s gift

The NaTuralisT’s NoTebook

friday, October 18, 2013 The Tech

The ground and gouged large chunks out of mountains. Some almost 300 years ago, the climate warmed and the glacier receded, leaving behind a barren wasteland. As the glacier melted, it replaced all the rocks and detritus it had picked up in its headlong advance. This is the origin of those giant boulders you may find lying around in the forest; they were chiseled out by the glacier and left behind.

Trees colonized the newly exposed mountains. Some slopes faced north and received less sunlight, making them cold and damp. In the darker ravines, the hemlocks and giant conifers that live up to a thousand years — took root. On the windy upper slopes, the birches and poplars settled, trees from the far north. Birch bark peels off in sheets, enabling the tree to rid itself of a pesky fungus. This attribute makes it an ideal material for dishes and canoes. Poplars (also called aspens) are known for bending in the wind, an adaptation for enduring harsh northern blizzards and heavy snowfall. The bark of poplars is slightly dry — the perfect place for forest fires.

The sunny south-facing slopes, covered with rocks by the glaciers, are warm and dry — the perfect place for forest fires. We humans flatter ourselves for having “invented” fire, but natural fires are a common occurrence over much of the world, and are actually necessary to the survival of many species. Trees like oaks, pines, and hickories are specially adapted to resist fire. They have thick bark and large tough seeds that sometimes don’t sprout at all unless they’re lightly burned first. Now that people have started extinguishing forest fires, some of these trees are having a hard time competing.

The smooth, pale gray bark, which lores sometimes write on, is also adaptation to the tropics, where it stops the tree from being overrun by vines and other plants looking for a foothold. Unfortunately, smooth bark is a terrible idea in a northern winter, since it splits easily in the cold. Almost every other tree here has ridged bark, which can expand and contract with temperature changes.

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Senior heads to weightlifting worlds
Junior Olympic and Course 2 senior Mike Nackoul selected to represent the USA at the World Weightlifting Championships

By Allison Sobczak
Massachusetts Institute of Technology student, Michael A. Nackoul ’14, a Pittsburgh native, has been selected by USA Weightlifting (USAW) to represent the United States at the International Weightlifting Federation’s (IWF) World Weightlifting Championships in Wroclaw, Poland, Oct. 16–27.

Nackoul was named to the USA World Weightlifting Team, an elite group of the country’s 15 top male and female weightlifters, who will compete in Poland against athletes from 62 different countries. The 22-year-old Nackoul, who competes in the 85-kilogram (187 lbs.) weight class, is a two-time USA Junior World team member and recently competed at the World University Games in Kazan, Russia. Nackoul has won three national championships in his age group and placed seventh in the Junior Worlds in Malaysia in 2011 with 10s of 143 kilos (315 lbs.) in the snatch event and 186 kilos (410 lbs.) in the clean and jerk.

Nackoul splits his time between Boston, Pittsburgh, and the U.S. Olympic Training Center in Colorado. Currently a senior at MIT, Nackoul splits his time between Boston, Pittsburgh and the U.S. Olympic Training Center in Colorado, where he trains as a resident athlete with U.S. National Team Coach Zygmunt Smalcerz, who is a 1972 Olympic Gold medalist and International Weightlifting Federation Council member.

He has his sights set on qualifying for the 2016 Summer Olympics in Rio de Janeiro, Brazil, following his graduation from MIT in December. “I’m honored to represent the USA at the World Championships in Poland,” notes Nackoul. “My team and I have worked hard. Competing against the best in the world is a great experience that will help all of us as we work toward 2016,” said Nackoul.

By Austin Osborne

NBA Atlantic Division Preview

1. Brooklyn Nets
Brooklyn is absolutely in win-now mode. This offseason, they added to their already mega-talented starting line-up consisting of Deron Williams, Joe Johnson and Brook Lopez with a mega-trade with the Boston Celtics. They acquired future Hall of Famers Paul Pierce and Kevin Garnett, while also adding bench scorer Jason Terry.

They have arguably the best starting five in the league, but it remains to be seen if their bench can be effective enough to make a significant push in the Eastern Conference. There have been plenty of outstanding starting line-ups over the years, but it’s been proven time and again that a championship team needs a bench to succeed. Another question going into the season is how new coach Jason Kidd will handle his first coaching experience, especially with a team full of veterans. They will have an interesting year, but they should win the East handily.

2. New York Knicks
This team enters the season as a similar team from last year. They added Metta World Peace in the offseason and began a two-way trade with Toronto. They also drafted Tim Hardaway Jr., a shooting guard out of Michigan who could make a fairly significant impact this offseason on the bench. They didn’t make many moves this offseason, but overall they had effective transactions and they should make up for the losses of Jason Kidd, Steve Novak and Chris Copeland. They still have the best perimeter scorers in the league in Carmelo Anthony and J.R. Smith, while Amar’e Stoudemire provides a formidable post presence when healthy. Tyson Chandler will continue to anchor the defense and overall, the Knicks have a good chance to take the division and potentially do some major damage in the playoffs.

3. Toronto Raptors
Even though Andrea Bargnani was the cornerstone of the Raptors franchise for much of the past 6-years, the former number one overall pick became expendable when Toronto acquired Rudy Gay last season in a trade with Memphis and when young big man Jonas Valanciunas was handed a breakout season. They added some key complementary pieces that can help them make the playoffs for the first time since the days when Vince Carter dangled the purple and black. Tyler Hansbrough and D.J. Augustin are two young players that can make a huge impact off the bench, and Rudy Gay was once the focal point of Memphis’ offensive attack. He began to fade for the Grizzlies, but he played well in his limited time in Toronto last season, and it will be interesting to see if he can regain his old form when he is once again the star of the team. The Raptors have a lot of youth and a lot of experiment in the way up, but I don’t see them earning more than a seventh or eighth seed in the playoffs.

4. Boston Celtics
Boston made a blockbuster trade this offseason and completely changed the identity of their team. They lost Paul Pierce, the face of their franchise this year. This offseason, they are looking to build around new coach Brad Stevens, previously coaching in the NCAA for Butler. They have added a few young players with upside, and are obviously looking toward the future. There is a lot to like about their first round pick, Kelly Olynyk out of Gonzaga and it looks as though he could be their center of the future alongside Jared Sullinger. They can also allow forward Jeff Green to grow this season and see how his play-style fits with Rondo’s. I wouldn’t be surprised if Rondo is traded by midseason, however, as Boston has tried to trade him multiple times in the past. This will be a rough season for the Celtics, and they will be competing with Philadelphia for first pick in next season’s talent-loaded draft.

5. Philadelphia 76ers
The ‘S’ers are looked at by many as the worst team in the NBA this season, and for good reason. In this year’s draft, they shocked everyone by trad- ing their All-Star point guard Jrue Holiday to the New Or- leans Pelicans for next year’s first round pick and this year’s second overall pick, Nerlens Noel. They also allowed streaky scorer Nick Young to leave in free agency along with Dorell Wright. The 76’ers struggled to score last season, even with those three players, so without them it will be a much more unimpressive season even the middling teams in the league. This season will be Evan Turner’s final chance to prove that he can be an effective NBA player, as his contract expires after this season, but this will be his perfect op- portunity. He will be the focal point of the offense and will be able to showcase his abilities. Philadelphia should definitely be in the running for the number one pick this season.

MIT field hockey beats Clark, 4-0

Elizabeth Dethy ’15 swings at the ball during a field hockey match against Clark University on Saturday, Oct. 12. MIT won 4-0.

Women’s tennis crushes Smith College, 9-0

Victoria Tam ’16 serves in a Women’s tennis match against Smith College on Saturday, Oct. 12. MIT won 9-0.

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