By Stan Gill
CONTRIBUTING EDITOR

Provost Martin A. Schmidt PhD ’78 announced last week plans to move forward to create a new institutional entity at MIT. The entity will incorporate values from several programs, including the Engineering Systems Division (ESD) and Laboratory for Information and Decision Systems (LIDS), to create a new center focused on complex and socio-technical systems, information and decision systems, and statistics.

In an email to the MIT community, Schmidt said that the final proposal for the new entity was the result of deliberation across four committees over five months. Professor Munther A. Dahleh, currently the acting director of the Engineering Systems Division (ESD), is the entity’s director-designate.

The original proposal, released in May, stated that the new entity hopes to have a substantial impact on critical societal systems, defined in the report as engineered or natural physical systems, social behavior of people interacting with these systems, and institutional behavior of organized units governing these systems.

The mission of the entity addresses two main points in setting up an infrastructure to make these goals a reality. The first is to create a research and educational environment that enables analyzing, predicting, designing, and controlling complex societal and technical systems. Secondly, the proposal suggests creating an Institute-wide focal point for advancing MIT’s research and educational programs related to 21st century statistics.

The formation of the entity will create several new interdisciplinary graduate programs. The two core programs will be the PhD in complex systems and the PhD in statistics. The complex systems PhD is slated to rely on research driven by “systems-level issues that arise in various engineering and societal domains.” The PhD in statistics is meant to be a unique degree track, covering probability theory, modern statistics theory, and data analysis.

The report on the entity also proposed a masters in statistics, a refu

MIT campus upgrades wireless network

Just in time for the beginning of the new school year, MIT upgraded its on-campus network to include a new Distributed Antenna System (DAS) as part of a project to improve wireless coverage on campus, according to a press release by AT&T.

DAS provides an improved wireless connection in heavily populated areas through the use of multiple antennas. AT&T reports the new system has been operational at MIT buildings so far, including the David H. Koch Center for Integrative Cancer Research and the Tang Center. More installations are underway.

In a press release, Patricia Jacobs, President of AT&T New England, emphasized the value of a “fast, reliable network” for MIT students and faculty in their work.

MIT’s network upgrade is part of AT&T’s larger effort to bring high-speed Internet access to its customers through Project Velocity IP, a program that launched in 2012.

—Drew Bent

IN SHORT

September 15 is the last day to sign the 2014-2015 waiver for MIT health insurance. Be sure to waive individual coverage through the MIT Student Extended Health Plan. You can waive coverage for just the fall semester or the full academic year. Go to http://medweb.mit.edu/healthplans/student/waiver.html.

Career Fair is next Friday! Be sure to sign up at https://career.fairmit.edu. The Career Fair will take place next Friday, September 19 in the Johnson Athletics Center and Rockwell Cage.

The ESP Splash Teacher Registration is open at https://esp.mit.edu/teachers/index.html. Be sure to sign up by Friday, Sept. 26.

It’s your last chance to pick up art through the MIT List Visual Arts Center. Make sure to claim artwork on a first-come-first-serve basis tomorrow starting at noon on E15.

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

MICHELE FALONE
NEWS DIRECTOR

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Bhatia and her team have also pioneered into the production of artificial microfluidics, which can be used to model the behavior of infections, such as malaria, that originate in the liver. The microfluidics may even lay the groundwork for engineered liv- ers that supersede the need for transplant.

Professor Bhatia is a member of the Koch Institute for Integrative Research and a senior associate member at the Broad Institute, as well as a faculty member at the Institute for Medical Engineering and Science.

—Rohan Banerjee

MIT Professor wins $500,000 Lemelson-MIT Prize

Sangeeta N. Bhatia SM ’93, PhD ’97, the John J. and Dorothy Wilson Professor of Health Sciences and Technology & Electrical Engineering and Computer Science, has been awarded the $500,000 Lemelson-MIT Prize for work in applying small-scale technologies to create clinical solutions that can be implemented on a global scale. The annual prize is awarded to mid-career inventors who develop products that have societal value.

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All-FSILG ban is for rush fairness

MIT extended Boston restrictions to Cambridge, Brookline

That incident was just days after MIT told its fraternities that they could once again hold events at their houses exceeding their maximum number of residents, an apparent end to restrictions in place since Boston revoked fraternities’ assembly licenses after student fell four stories through a skylight in September 2013 at Phi Sigma Kappa. MIT gave its blessing to gatherings in the city more than a month ago, but there remains considerable uncertainty over the timing of the event.

Statements by members of Boston’s Inspectional Services Department, to the Herald this September, however, indicated that the city will view the assembly licenses as prerequisites for gatherings but had not received any applications for the licenses from MIT fraternities since January. The statement called into question whether MIT’s new event policy had ever provided legal justification for renewed events, and seemed at odds with MIT adminis- trators’ assurances to fraternities that MIT and the ESP had been in “long and productive collaboration” regarding the matter.

In an email to The Tech, Tom Stohlman, a building code contrac- tor hired through MIT’s Association of Independent Living Groups, indicated that some types of events do not need assembly licenses un- der normal conditions. “There are important differences between res- taurants, bars, theaters, and other places of public assembly and hav- ing a party, dinner, movie night, or rush event among friends and ac- quaintances at one’s house. There comes a point when the crowd size and makeup makes the distinctions more significant,” he said.

It seems that the events policy introduced before rush aimed to keep FSILG events limited to those on the MIT campus, but the new consideration of events in the city’s residence areas means that MIT fraternities could once again hold events at their houses exceeding their maximum number of residents, an apparent end to restrictions in place since Boston revoked fraternities’ assembly licenses after student fell four stories through a skylight in September 2013 at Phi Sigma Kappa. MIT gave its blessing to gatherings in the city more than a month ago, but there remains considerable uncertainty over the timing of the event.

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By Casey Hilgenbrink

By John Eligon

The Fijians were serving in the U.N. Disengagement Observer Forces, which has been monitoring the demarcation line between Syria and the Israeli-occupied Golan Heights since 1974. Fighters from the Nusra Front captured them last month after breaking the record for the earliest measurable snowfall. Cambridge is nothing compared to the early-season winter weather experienced in its coastal conditions and cold skies in its wake. Expect a high temperature of around 66°F (19°C).

Unfortunately, the wintry weather still has immense value to Google because it helps the company learn more about its users, which, in turn, helps the Internet giant to sell more ads and push more of its services. Still, despite frequent jokes about people being locked in their homes, the network still has huge value to Google because it offers a way to get around many of its perils. Google has polls for several media companies including HNN, 24/7, and the New York Times. Now that it has been acquired by Google, the company will stop taking new customers and spend the next few months winding down its business to focus on new Google Plus projects.

By Jodi Rudoren

The comments were made in an interview which a senior Hamas official had reached an agreement with Is- rael and the United Nations to allow imports of reconstruction materials into the Gaza Strip, apparently bypassing Hamas to funnel a key tenet of the cease-fire agreement that halted hostilities on Aug. 26. Abbas did not provide specific details about the imports might be- gin, how much would be allowed or who, exactly, would control the process. Spokesmen for the United Nations office that has been nego- tiating the deal, the Israeli prime minister, and the Israeli agency responsible for coordinating activities in Gaza did not return telephone calls late Thursday.

The New York Times

The gun bill cleared the Senate 23-8. Missouri law allows anyone to openly carry a firearm unless prohibited by the contrary. In July, the City Council in Kansas City voted 9-0 to ban all open carry within its borders. But under this bill, people in Kansas City with concealed-carry permits may carry openly. Skelton, the mayor of Kansas City, said he was “truly saddened” by the Legislature’s override. This legislation is dangerous and unfortunate, and the override puts political interests above the in- terests of people,” James, a Demo- crat, said in a statement.

The interview with the senior leader, Moussa Abu Marzook, along with Hamas’ partial payment of salaries on Thursday to employees of its former government, highlighted the increasing tension threatening the recent reconcilia- tion between Hamas and Fatah. Marzook, who is based in Cairo and has been visiting Gaza, told Al- Quds Television that Islamic law did not ban direct talks with Israel, and that Hamas “may find itself com- pelled to this behavior” because of the Palestinian Authority’s failure to meet the needs of Gaza residents. Marzook’s comments may have been less about a practical policy change than a political shot at Abbas, whose harsh criticism of Hamas over the weekend renewed doubts about the durability of the reconciliation pact signed in April.

But abortion opponents who car- ried the bill said that women wanted the procedure done more quickly could cross the state line into Illinois or Kansas, which have no 72-hour waiting period. Democratic senators tried to filibuster to prevent the vote, in the hope that a Republican lawmaker, who could not stay past one day for the session because of a prior commitment, would have to leave before the vote was taken. But after about two hours into the debate, Republican lawmakers used a pro- cedural move to stop it, and voted along with the governor on the overridden bill. The override passed the House 117-44. The gun bill cleared the Senate 23-8. Missouri law allows anyone to openly carry a firearm unless prohibited by the contrary. In July, the City Council in Kansas City voted 9-0 to ban all open carry within its borders. But under this bill, people in Kansas City with concealed-carry permits may carry openly.

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Google acquires online poll company Polar

It definitely feels like fall in Cam- bridge. Biting winds have brought a warm 88°F (27°C) thanks to breezy southwest winds ahead of an approach- ing cold front. This cold front passed through the area late last night, leaving us with cooler conditions and cloudy skies in its wake. Expect a high temperature of around 66°F (19°C).

 extended Forecast

Today: Sunny, with a high temperature of 68°F (20°C) and winds from the southwest at 10 to 15 mph.

Tonight: Clear, with a low temperature of 54°F (12°C). Winds from the southwest at 10 to 15 mph.

Tomorrow: Partly sunny, with a high temperature of around 66°F (19°C).

Northeast winds will drop to around 10 mph. Chance of showers in the evening and overnight.

Sunday: Mostly sunny, with a high temperature in the upper 60s°F (around 20°C).

Cool, fall weather in store

Extended Forecast

The New York Times

Farmers markets opened carry permits from openly carrying guns. Abortion rights supporters have argued that the law hampers women’s access to the procedure because they often have to travel to have one, and the waiting period could force them to make extra temper- al lodgings and costs, perhaps take time off work. The only clinic that offers elective abortions in Mis- souri is in St. Louis. It “is not clear that particular bill is a way to shame and demonize women into changing their minds about abortion,” said Rep. Judy Morgan, D-Kansas City.

Several abortion opponents who supported the bill said that women who wanted the procedure done more quickly could cross the state line into Illinois or Kansas, which have no 72-hour waiting period. Democratic senators tried to filibuster to prevent the vote, in the hope that a Republican lawmaker, who could not stay past one day for the session because of a prior commitment, would have to leave before the vote was taken. But after about two hours into the debate, Republican lawmakers used a pro- cedural move to stop it, and voted along with the governor on the overridden bill. The override passed the House 117-44. The gun bill cleared the Senate 23-8. Missouri law allows anyone to openly carry a firearm unless prohibited by the contrary. In July, the City Council in Kansas City voted 9-0 to ban all open carry within its borders. But under this bill, people in Kansas City with concealed-carry permits may carry openly.

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 DEAL REACHED ON GAZA RECONSTRUCTION

Deal reached on Gaza reconstruction

72-hour wait for abortion is enacted in Missouri

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US, Europe back new economic sanctions against Russia

By James Kantor and David M. Herszenhorn

BRUSSELS — The United States and Europe agreed on Thursday to place additional economic sanctions on Russia over its role in promoting separatist warfare in eastern Ukraine, despite a fragile new cease-fire that went into effect last week.

European leaders overcame resistance among some of their colleagues who wanted to continue delaying additional measures to see if the shaky truce holds. President Barack Obama then followed suit shortly afterward by announcing that he would match the new European moves when they take effect on Friday. "We are watching closely developments since the announcement of the cease-fire and agreement in Minsk, but we have yet to see conclusive evidence that Russia has ceased its efforts to destabilize Ukraine," Obama said. He added: "If Russia fully implements its commitments, these sanctions can be rolled back. If instead Russia continues its aggressive actions and violations of international law, the costs will continue to rise."

Herman Van Rompuy, the president of the European Council, the body representing the European Union's leaders, said the sanctions to be put into effect on Friday would be reviewed by diplomats before the end of the month and could be revised swiftly if events warranted. "We have always stressed the irreversibility and scalability of our restrictive measures," he said.

Neither side publicly announced the specific actions to be taken, leaving that until Friday, but officials said they would be aimed at Russia's financial, energy and defense sectors.

Documents unsealed in Yahoo’s case against US data requests

By Vindu Goel and Charlie Savage

The federal government was so determined to collect the Internet communications of Yahoo customers in 2008 that it threatened the company with fines of $250,000 per day if it did not immediately comply with a secret court order to turn over the data.

The threat — which was made public Thursday as part of about 1,500 pages of previously classified documents that were unsealed by a federal court — sheds a rare spotlight on the fight between Internet companies and the government over the secret surveillance of Americans and foreigners following the 9/11 terrorist attacks. Under the Foreign Intelligence Surveillance Act, companies that receive data requests are prohibited by law from talking about the substance of the interactions or even acknowledging they occurred.

Yahoo's 2008 challenge to the warrantless surveillance law and an appeals court's rejection of that challenge were first reported by The New York Times last year, shortly after Edward J. Snowden, a former National Security Agency contractor, exposed a more extensive government surveillance program called Prism through classified documents leaked to The Washington Post and The Guardian. The court documents released Thursday show that Yahoo was forced to comply with the order to turn over data even though the government and the appeals court had yet to set out clear rules to minimize the amount of data collected from Americans, who were supposed to have special protection under the law, which was principally aimed at foreigners. The records also provide perhaps the clearest corroboration yet of the Internet companies' contention that they did not provide the government with direct access to vast amounts of customer data on their computers.

Overall, the cache of documents shows how Yahoo fought the government and eventually lost its appeal. That helped to set the stage for a vast expansion of the federal government's surveillance of Internet users through the secret Prism program.

NFL stands ground on Rice, despite report it received video

Two days after a graphic video surfaced showing star running back Ray Rice knocking out his then-fiancée, NFL Commissioner Roger Goodell continued to stand ground on his handling of the Rice domestic violence incident.

Late Wednesday night, Goodell said that he asked former FBI Director Robert S. Mueller III to conduct an independent investigation into the league’s “pursuit and handling of evidence in the Ray Rice domestic violence incident.”

John Mara, the co-owner of the New York Giants, and Art Rooney II of the Pittsburgh Steelers, who are both lawyers, will oversee the investigation, the final results of which will be made public. Goodell said Mueller, who was director of the FBI for 12 years, will have access to all NFL records.

Mueller’s report, though, is unlikely to quell the immediate calls by women’s advocacy groups for Goodell to resign. Earlier Wednesday, he sent a letter to team owners and presidents restating that the league had not seen video of what transpired in an elevator between Rice and Janay Palmer, now his wife, until it was made public by the website TMZ on Monday.

Yet The Associated Press reported Wednesday that a law enforcement official, speaking on condition of anonymity because of the continuing investigation, sent the footage to an NFL executive months ago, before Goodell suspended Rice.

“We have no knowledge of this,” Greg Asell, an NFL spokes-

man, said in a statement. “We are not aware of anyone in our of-

fice who possessed or saw the video before it was made public on

Monday. We will look into it.”

In July, Goodell disciplined Rice, who played for the Baltimore Ravens, with a two-game suspension for being accused of assault-

ing his fiancée, a penalty that was widely criticized as too lenient.

In a rare move culminating in August, Goodell acknowledged that he had mishandled the Rice case and announced that he would toughen the league’s policy on domestic violence.

“One longstanding policy in matters like this — where there is a criminal investigation being directed by law enforcement and prosecutors — is to cooperate with law enforcement and take no action to interfere with the criminal justice system,” Goodell wrote in the letter.

He added: “As always, we will continuously examine our proce-
dures. I believe that we took a significant step forward with the en-
hanced policies on domestic violence and sexual assault that were announced last month.”

But as he tried to explain his reasoning, Goodell also had to fend off calls for him to step down from the most prominent and lucrative job in sports.

“The NFL has lost its way,” said Terry O’Neill, the president of

the National Organization for Women. “It doesn’t have a Ray Rice

problem; it has a violence against women problem.”

Indiscriminate surveillance at MIT
Logging of card access data at CSAIL has no clear benefits

By Richard Stallman

In the State Center, the doors to enter the building and then to enter the lab areas (accessible only by opening by RFID cards) I called them "pose cards" instead of metal keys. When the Computer Science and Artificial Intelligence Laboratory (CSAIL) moved into State in 2004, the MIT administration decided, without consulting the personnel of the laboratory, to make the system log which card was used to open which doors and when.

To protect democratic processes, our systems must not stop creating dossiers about us.

At first, many of us were incensed about this. I re- mained so, a committee was launched to study the issue, but it dragged on, petrified out, went on paper, and was a formal recommendation. Then, Edward Snowden’s wisdom, we know that digital systems accumu late data on everyone, and these are easily available to the state. Digital technology makes it possible to record events and, standard en gineering and business practice is to log all data. If we don’t want a society in which everyone’s moves- ments and communications are recorded for Big Brother to scrutinize — if we want democ racy and journalism to be safe — then we must stop creating dossiers about ourselves. (I’ve thought about these several points before in gnu.org/ philosophy/surveillance-vs-de sertification.html).

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MIT’s lock logging is one of these systems, and I felt they should take action once again locally, as well as globally.

When we criticize MIT’s system of practicing people’s movements, the Office responds with two arguments. First, they say MIT’s policy for access to these data is very strict. Perhaps we could trust MIT on constraining their access to the data and correction of its control, but the USA
Remember, so much of biology is not well-understood.

...but it is these unexpected results that can make us the bearers of knowledge.

Experiments don’t always turn out as expected.

One day later...

How am I going to get published from this?

How am I going to get published from this?

Abstract

Beta-3-Tx knockout mice devised a systematic arson of our lab as a time-series analog of the nitro-3-mine pathway. The details will be left as an exercise for the reader.

Acknowledgements to Kase Zollarian, an ever supportive muse and eloquent academic.

---

**Double-Theming** by S.N

Solution, page 10

**ACROSS**

1 Grind, as teeth
6 Read on the run
10 Memo directive
14 Slow tempo
15 Verdi work
16 Venetian voyager
17 TV-commercial phrase
19 Garlic trait
20 Peter Pan-like
21 TV-commercial phrase
22 Microbe
23 Said aloud
24 TV-commercial phrase
26 Highest point
29 Erode
31 Clock-radio button
35 Dutch South African
36 Air of mystery
38 Give the boot to
39 Qty.
40 Themes of the puzzle (as one word, or two)
42 Literary preposition
43 Sitting Bull, for one
45 Abate
46 Heavy metal
47 Out of the ordinary
49 Large quantity
50 Hombre’s home
51 Ultimate cause
53 Warm up, in a way
55 TV-commercial phrase
59 Islamic holy city
63 Trade syndicate since 1961
64 TV-commercial phrase
66 The two together
67 Bit of gossip
68 Smallest possible
69 Pinpoint
70 Jamboree quarters
71 Puts (away)

**DOWN**

1 Whipped-cream serving
2 Infamous emperor
3 Toy Story youngest
4 In the Heat of the Night
5 Gymnastics equipment
6 __ Paulo
7 Isn’t serious
8 Snake River state
9 Civic leaders
10 Lunar orbiter of 1969
11 Bar mixer
12 Considerably
13 Ponder (over)
18 Bookbinder’s material
22 Glazer’s wares
24 Purple shade
26 Bellite
27 Underground cartoonist’s products
28 “Same here!”
30 Wimperaner reward
32 Singing phantom’s haunt
33 Goose eggs
34 Justice who succeeded John Paul
37 Property crime
39 Self-evident truth
41 Deprive of feeling
44 Dutch city
46 Summer refresher
48 “Slow down, fella”

52 Unimaginative
54 Topples, with “over”
55 Sad sounds
56 Each, so to speak
57 Literally, “I forbid”
58 All square
60 Proofreader’s notation
61 Home for hornets
62 Pursuits with patrons
65 Rescue squad VIP
CONCERT REVIEW
Boston Calling returns for round four
The three-day music festival showcased variety despite adverse weather

By Brianna Bernstein

The fourth installment of Boston Calling this past weekend had its ups and downs but was overall an exciting, enjoyable festival that carried on Boston’s immensely diverse music scene.

While this year’s spring lineup was mostly centered around the type of indie, alternative rock that is becoming increasingly popular these days, the fall lineup had a more varied mix, including rap artist Nas (in collaboration with The Roots), Brooklyn-based band Vampire Weekend, and well-known names in the indie scene Neutral Milk Hotel and Lake Street Dive.

The concert also hosted the annual Samuel Adams Boston Beer Bash, which gave concertgoers over 21 the chance to enjoy good beer while drinking Sam Adams, launching on a grilled sausage, or catching the relatively empty T . Not to mention, the喜剧演员-turned-rapper ended the night on a strong note by playing some old favorites and the crowd loved it.

Ending the weekend was the collaboration Nas x The Roots. Or at least that’s what they claimed to be. Instead of a brilliant mix of the two different styles that the audience expected, it turned out to be Nas opening the set with a few Illmatic favorites and then handing the stage over to The Roots.

Nas did play a few tracks from his new album ‘Voters’, but he also performed a few songs from his ‘Revolutionaries’ days. Though Nas

1. The National was the closer for the first night of the festival on Friday.
2. Lorde performed Saturday evening at Boston Calling after the festival reconvened after a severe weather delay.
3. Nas performed in the closing slot of the festival Sunday evening with The Roots.
4. twenty one pilots performed Sunday afternoon and both members left stage to join the crowd. Here drummer Josh Dun crowdsurfed on a platform with a small drum kit.
5. The Replacements continued their string of shows following their reunion in 2012 playing on Sunday evening.
6. Childish Gambino closed out Saturday evening of the festival performing a shortened set due to weather.
Sudoku
Solution, page 10

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

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

Techdoku
Solution, page 10

```
1- 180x 12x

480x

30x 18x 10x

18x 2x 120x

4 1 6

120x 1
```

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.
Students discuss their concerns with nuclear energy industry leaders and policy-makers

The 2014 Nuclear Engineering Student Det-
egation (NSED), a 17-member body including
MIT graduate students Daniel J. Curtis and
Jake M. Jurewicz from the department of nu-
clear science and engineering and Matthew C.
Ellis of the MIT Lincoln Laboratory, met last
Thursday with various nuclear energy leaders
and industry representatives. They also met
with executive and legislative offices, accord-
ing to the MIT News Office.

The News Office stated the MIT group met
with Senator Elizabeth Warren and discussed
the special scientific value of the Alcator C-
Mod tokamak facility and expressed its grati-
tude for her support of the facility’s funding.
They also discussed NSED policy priorities,
particularly their concerns about the fund-
ing of both undergraduate and graduate-level
education in nuclear engineering.

Additionally, the group met with energy
and technology specialists from the offices
of members of Congress from Massachusetts
and from their home states.

One of the goals of the student-run orga-
nization was to gain insight on current gov-
ernment operations in nuclear science and
engineering.

—Cristina Lao

No end set for FSILG limits
Boston limits extended to all FSILGs by MIT

FSILG, from Page 1

lic assembly, but that the ISD
raised new concerns after the
incident at LCA. In his email
to The Tech, Bauer did not an-
swer questions about how the
events policy was meant to in-
teract with Boston law to miti-
gate the original restrictions
from 2013. Unlike the restrictions
from 2013 that limited the
number of people inside
each fraternity house to the
house’s maximum number of
residents, the new restrictions
set a hard cap of 49 people for
gatherings at houses. Stoh-
man said that while he did not
have direct knowledge of the
origin of the 49-person cap,
Boston building code often
refers to a 49-person require-
ment for building egress sys-
tems to support.

He added that the limit varies among houses, some-
times exceeding 49, and said
that while MIT’s new event
policy recognizes the differ-
ences, “Boston’s limit now
prevails.”

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with Vannis Konstantinou
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Sala de Puerto Rico
(Student Center 2nd Floor)

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MIT Folk Dance Club
http://mit.edu/idec

--- -- --- --- -- F1 joinTechno.py (Python) -- - L1 -- Top ---

Prof Danheiser and Poonen awarded School of Science
Teaching Prizes

The MIT School of Science recently awarded its annual
Teaching Prizes for Graduate and Undergraduate Education
to two faculty members. The honor is for excellence in the classroom.
The two recipients this year are Rick L. Danheiser, the A.
C. Cope Professor of Chemistry, and Bjorn Poonen, the C.
E. Shannon Professor in Mathematics. Professor Danheiser
teaches the graduate-level class

5.51 1 (synthetic organic chemis-
try), and Professor Poonen is the instructor for 18.01 (di-
ferential equations).

Both professors were nomi-
nated last spring by their stu-
dents and fellow faculty mem-
ers. The award has existed for
over 30 years.

Last year’s recipients of the award were Professor Timothy
F. Jamison for his instruction in

chemistry, and Associate Profes-
sor Joshua N. Winn for his teach-
ing in physics. —Roy Wiang

New program to house new faculty, research
New curriculum will include several
new graduate tracks, undergrad minor

The proposed structure of the entity is similar to MIT’s Institute for Medi-
cal Engineering & Science (IMES) — an entity able to support academic programs
and hire faculty like a department, but
The proposed structure
that the new program would initially house 30
faculty members. The core faculty mem-
ers will initially be drawn from ESD
(which will be dissolved as part of the tran-

The School of Engineering, Sloan, and the School of Science have committed to
hiring a total of 16 faculty members over
the next three to five years to support the
expansion of this entity. The committees
assembling and reviewing the comments
on the proposal did consider assigning
dedicated faculty positions within the en-
tity, but felt that maintaining the entity’s
“strong alignment with relevant depart-
ments” merited moving forward with the
proposed structure.

The next steps to form the new entity
will be to reorganize the existing programs.

The committees
that this phase of the process will
take “a couple of months.”

The report noted that the develop-
ment of the statistics programs would not come until after a senior faculty member in
statistics is hired. While the proposal
discussions since the report have led to
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Sacra recovering from Ebola
New treatment against Ebola is groundbreaking

By Martin Finucane

Dr. Richard A. Sacra, the Massachusetts physician infected with Ebola while working at a hospital in Liberia, has taken major steps toward recovery, a doctor at the University of Nebraska Medical Center said Thursday.

“His progress has been remarkable,” Dr. Angela Hewlett said at a news conference at the Omaha medical center, where Sacra has been treated since last week.

Hewlett said that, given the progress that Sacra has made, “I would think a relapse would be less likely.” But she also sounded a cautionary note, saying the treatment was breaking new ground, not only because Sacra had received an experimental drug, but also because he had received blood transfusions from an American doctor who had contracted Ebola and recovered.

“He is doing a lot better clinically and on paper, but again, we’re really breaking new ground, not only because of the drug but also because of the blood transfusions,” Hewlett said. “We are also thankful for the resources that were available. “

The idea was to “jump-start” Sacra’s immunity and “buy him some time” to combat the virus.

The officials also said that Dr. Sacra had received an experimental drug every night since his arrival at the biocontainment unit.

“We don’t know that this drug had any impact at all,” he said.

The worst Ebola outbreak in history, rooted in Liberia, Sierra Leone, and Guinea, has spread to Nigeria and Senegal, and has been blamed for more than 2,000 deaths across West Africa.

Sacra was not treating Ebola when he contracted the virus. He was working to deliver babies. Debrah Sacra said US Centers for Disease Control and Prevention was investigating how he got the disease, but investigators so far believed it had happened in an “emergency situation.”

Sacra, 51, has spent much of his career working in Liberia. SIM, a Christian missionary group, sponsors his work.

Dr. Philip Smith said at the medical center news conference that the idea was to “jump-start” Sacra’s immunity to “buy him some time” to develop his own defenses against the virus.

“It really meant a lot to us that [Drantly] was willing to give that donation to save himself,” said Deborah Sacra.

The operator of Faneuil Hall Marketplace, one of Boston’s most visited yet dated landmarks, is proposing a dramatic overhaul of the historic property that would create a new boutique hotel and shake up a shopping experience that has changed little since the 1970’s.

The plan, from Ashkenazy Acquisition Corp., is designed to bring Boston residents back to a central retail district that remains popular with millions of tourists but has lost much of its appeal for locals.

The plan is designed to bring Boston residents back to a retail district popular with tourists.

The property’s proposal would turn the marketplace’s crowded central food court into more open retail spaces, bars, and sit-down restaurants.

It would add several glass pavilions and whether they will be able to afford rents in the upgraded property. Ashkenazy has said its plan will cost tens of millions of dollars, but its executives declined to be more specific. Lustig said the company intends to re­tain the vast majority of the current vendors, but acknowledged some will be replaced and others will be moved to new locations in the complex.

“The pushcarts and the food vendors that are truly unique to Boston are going to absolutely be part of the future evolution of this property,” Lustig said. “There are some vendors that are selling goods that are not really Boston, and that’s a little different.”

Faneuil Hall under major renovations
Overhaul done by next summer

The Tech Friday, September 12, 2014

Mayor Martin J. Walsh said the plans are “a good first step” and that the city “would continue the conversation” with the developer and the marketplace’s vendors.

Faneuil Hall is steeped in history, which helps make it one of the world’s most visited sites. It served as a rallying point for the American Revolution, and the three buildings constructed near it — Quincy Market, South Market, and North Market — have become a hub of commerce and culture that attract more than 20 million visitors a year.

The property has been managed in recent decades by a succession of private companies. Ashkenazy bought a ground lease to operate the market in 2011 and has been working on a renovation plan for nearly three years.

The head of Faneuil Hall’s merchants’ association, Carol Troxell, said she hoped that any changes would not cause vendors to be displaced from the market.

“The local merchants welcome modern upgrades to the property, we just want to be part of the marketplace,” she said. “We recognize that it has to be a mix of vendors. But it’s a local market, and we want it to be primarily local Boston and New England merchants.”

Troxell said merchants are worried about rent increases and whether they will be able to afford rents in the upgraded property. Ashkenazy has said its plan will cost tens of millions of dollars, but its executives declined to be more specific. Lustig said the company intends to retain the vast majority of the current vendors, but acknowledged some will be replaced and others will be moved to new locations in the complex.

“The pushcarts and the food vendors that are truly unique to Boston are going to absolutely be part of the future evolution of this property,” Lustig said. “There are some vendors that are selling goods that are not really Boston, and that’s a little different.”

Lustig said the company intends to add several restaurants and stores in coming years. He declined to name any but promised a mix of national brands and local entrepreneurs.
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Have something to say?
Write opinion for The Tech!

opinion@tech.mit.edu
The Dolphins were forced to punt only twice, which goes to show how much the New England defense struggled when attempting to get the Miami’s offense off the field.

Throughout the game, the revamped and inexperienced Pat’s offensive line struggled to give Tom Brady any sort of protection against the dynamic Dolphins pass rush. Veteran defensive end Cameron Wake was particularly destructive and recorded two sacks in the game. In all, Brady was sacked four times, two of which resulted in fumbles subse-

ently recovered by Miami. In fact, the Patriots should consider themselves lucky that Brady ended the game unjured, given that he was still shrugging off the effects of a calf injury that kept him off the practice field lead-
ing up to the game at Sun Life Stadium. Throughout the pre-season, many touted this defense as the best coach Bill Belichick has ever had in years, but on the back of the secondary needs to break up passes every time he faces the Patriots.

New England actually started pretty well, holding a 1-point lead heading into halftime, but completely fell apart after the break, managing a mere 67 yards over the last 30 minutes of the game. Tight end Rob Gronkowski was largely ineffective in his first appearance since he tore his ACL and MCL in a game against the Cleveland Browns last season, even though he did catch a touchdown pass early in the first half on a slant route. Julian Edelman led the team with 16 all-purpose yards, and was probably the lone bright spot for the Patriots.

Looking Ahead
All eyes will now be on the offensive line when the Patriots take the field against the Vikings next Sunday. The performance against Miami will increase the doubts surrounding the trade of star left guard and captain Logan Mankins to the Tampa Bay Buccaneers. Sure, the Pat’s may have got the tight-end they were looking for in Tim Wright to replace Aaron Hernandez (and an additional draft pick to boot), but the move still represents a considerable risk, especially considering that the O-line was already in a state of flux through pre-season. Belichick has always prided himself on never being afraid of cut-
ing a player, but this may prove to be one gamble too many.

Another aspect of the Pats game that will be in sharp focus next Sunday will be the run de-
fense. The run defense couldn’t cope with Knowshon Moreno and company, so how is it going to handle Adrian Peterson, argu-
ably the NFL’s best running back? Tom Brady, when asked about the Dolphins game, said the Patriots need to improve across the board, and he’s right. On offense, Brady needs to throw the football much better (he missed a wide open Edel-
man in the second half, a throw he should have made comfortably, overall he threw 2-for-18 on throws 15 yards or greater) The wide receivers need to make more plays, the tight ends (par-
ticularly Michael Hoomanawai) need to block better, and the offensive line needs to give Brady much better protection. On de-
fense, the D-line needs to present a more meaningful pass rush and find ways to stifle the run, while the secondary needs to break up most big plays.

Sunday showed us talk of the Lombardi trophy coming back to Foxborough is still premature. For a team which assesses its sea-
son purely on whether it wins the Super Bowl or not, the Patrion’s really need to play better to avoid total disaster.

By Deepak Narayanan
SPORTS STAFF

UPCOMING HOME EVENTS
Friday, September 12
Women’s Volleyball vs. Emmanuel College 4:30 p.m., Rockwell Cape
Women’s Volleyball vs. Connecticut College 6:30 p.m., Rockwell Cape
Women’s Soccer vs. Lesley University 7 p.m., Steinbrenner Stadium

Saturday, September 13
Sailing vs. Toni Deutsch Trophy 9:30 a.m., Charles River
Women’s Volleyball vs. Bates College 11 a.m., Rockwell Cape
Football vs. Becker College 1 p.m., Steinbrenner Stadium
Men’s Soccer vs. Newbury College 1 p.m., Briggs Field
Women’s Tennis vs. Wesleyan College 1 p.m., DuPont Tennis Courts
Women’s Volleyball vs. Endicott College 3 p.m., Rockwell Cape

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