

City passes MIT plans for Kendall Council, MIT hope to foster innovation

By Leon Lin

ASSOCIATE NEWS EDITOR

The Cambridge City Council voted 7-2 last night to pass MIT's Kendall rezoning petition, permitting taller, denser development on the east side of MIT's campus. The rezoning is the first step toward realizing plans to bring new retail to Kendall Square and to replace parking lots along Main Street with three new commercial buildings and a residential tower called "Innovation Landing."

The name reflects hopes that Kendall Square — "the envy of the world," Massachusetts Housing and Economic Development Secretary Gregory Bialecki called it — will continue to grow as a vibrant hub for tech and biotech entrepreneurs.

For executives of MIT and the MIT Investment Management Company, the Council's vote is the vindication of over three years of work to align goals with those of city officials.

Before the final vote, the Council heard nearly three hours of comments from the public, ranging from firm praise to passionate condemnation of the petition. Among the speakers were long-time city residents and owners of Kendall firms as well as MIT executives, administrators, and faculty, including both familiar faces like Jonathan A. King and new faces like Eric S. Lander.

Several startup founders extolled the petition's provisions for attracting and keeping the smartest new companies in Kendall. The petition requires that five percent of new commercial floor area be "innovation space" with caps on the lease duration and floor area of each business.

President L. Rafael Reif spoke in favor of the petition at last week's meeting, which Thomas A. Kochan, chair of the MIT 2030 task force,

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Pakistani culture highlighted at Pakistanis@MIT's "Rawaj" last Friday



A performer plays the sitar at "Rawaj: A Pakistani Cultural Night," an event hosted by Pakistanis@MIT this past Saturday evening in La Sala de Puerto Rico.

TIFFANY IRA HUANG—THE TECH

First UTx classes added; Stanford joins work on edX open-source system

Open-source

EdX will release the source code of its entire platform on June 1. The source code will contain four parts, according to an edX press release: its Learning Management System; Studio, a course authoring tool; xBlock, an API for integrating third-party learning objects; and machine grading APIs.

EdX will work with Stanford and its other partners on the system, integrating key features from Stanford's existing open-source Class2Go system. The latter is in "maintenance mode," according to its website, and will not "get much development attention," according to its engineering director Sef Klöninger.

Stanford will not be joining the edX consortium, though. "We are not an 'x' organization," said Klöninger, who works at Stanford's Office of the Vice Provost for Online Learning; Stanford's classes will be available at online.stanford.edu.

Machine grading

The machine grading APIs have been the latest attention draw to edX, which recently rolled out its Automated Essay Scoring system that uses machine learning to grade essays. The system has garnered criticism, some from within MIT.

"My first and only objection is that they did not have any valid statistical test comparing the software directly to human graders," said MIT professor and longtime critic of automated essay grading systems Les Perelman to the *New York Times*. However, the system will allow writing-based assignments to be scalable to more people. With growing classes, it is impossible for most teachers to give meaningful feedback on writing assignments, said University of Akron professor Mark D. Shermis to the *New York Times*: "Often [critics] come from very prestigious institutions where, in fact, they do a

much better job of providing feedback than a machine ever could. There seems to be a lack of appreciation of what is actually going on in the real world.

Four UT Austin classes added

The University of Texas at Austin has joined the edX consortium as "UTx," offering four classes in the spring: "Ideas of the 20th Century," "Energy 101," "Age of Globalization," and "The Impact of Drug Development," with five more coming later in the year. Nearly 15,000 students have registered for the classes, with Energy 101 leading with 5,000 registrations. "This is absolutely a watershed moment in higher education and I am so proud that the UT system is playing such a large role in it," said Francisco Cigarroa, chancellor of the UT system, which announced its collaboration with edX in October 2012.

—Bruno B. F. Faviero

Rao/Cornish on plans for UA UAP/VP-elect discuss the items on their checklist

By Tushar Kamath

STAFF REPORTER

This year's winning ticket of the Undergraduate Association (UA) Presidential/Vice Presidential election is Sidhanth "Sid" P. Rao '14/Devin T Cornish '14, who ran unopposed as the other ticket was disqualified when its vice presidential candidate withdrew. As Rao and Cornish prepare to take office, they have decided to create a plan to implement changes in both the UA and the MIT community, all under the paradigm of their campaign slogan: "a vision with a checklist."

From their campaign, Rao and Cornish have three broad goals: establishing mutual support between the UA and the MIT community; addressing student space issues, revamping Athena clusters, and adding Saferide stops; and understanding how developments in online education will affect MIT students' education. Rao says that each and every policy implemented by the UA should work to promote either the success or happiness of the student body.

Establishing mutual support

In their platform, Rao and Cornish said that MIT's community was filled with subcultures, and the UA should take facilitate the establishment and promotion of individual cultures, rather than trying to impose anything. "We want to make sure we propose some solutions to problems that already exist, instead of creating new ones," stated Cornish. While some plans have fallen through, like their platform plan of giving door stoppers to every Maseeh resident (Maseeh already has door stoppers given out every year), Rao and Cornish have more on their checklist.

Rao and Cornish also intend to revamp the UA newsletter and expressed interest in getting ideas from people who aren't part of the UA. "We want to have a weekly booth for the UA in Lobby 10 or Lobby 7 with just us sitting there receptive to ideas," said Rao.

Many people on campus don't realize how much the UA does for the MIT community, said Rao: "If you're part of any type of club and request-

UA, Page 10



SUBRAMANIAN SUNDARAM

Jungle Fires performs live at TEDxYouth Charles River in 32-123 on Sunday, April 7. The independently organized TED event included talks by 10 speakers.

IN SHORT

Want to live on campus this summer?

The summer student housing application is now open at <https://odysseyhms-web.mit.edu/hmswebstudent/>.

Balfour is on campus today and tomorrow, from 11:30 a.m. to 4:30 p.m. in the E62 lobby for Brass Rat servicing.

Nominations are being accepted for

Student Leader Awards at life.mit.edu/sao/sla/awards until 5 p.m. April 26.

Celebrate the restoration of the dome and the opening of the 24-hour Barker reading room in Barker Library tomorrow 2-4 p.m. President Reif will speak, with refreshments to follow.

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

THE FUTURE OF KENDALL SQUARE

See artistic renderings and models of proposed plans for Kendall. **PHOTO, p. 8**

THE PREFROSH ARE COMING, THE PREFROSH ARE COMING!

The potential MIT Class of 2017 will be milling around on campus in two days. CPW is this Thursday through Sunday.



WOMEN'S RUGBY WINS!

MIT women's rugby team won 53-10 versus Wentworth Institute of Technology. **PHOTO, p. 15**

OPEN ACCESS TO RESEARCH

"Making open access the law of the land." **OPINION, p. 4**

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South Korea warns of possible missile launch by North this week

By Choe Sang-Hun
THE NEW YORK TIMES

SEOUL, South Korea — The South Korean government warned on Sunday that the North might launch a missile later this week, while a top military leader postponed a scheduled trip to Washington, citing escalating tensions on the peninsula.

The warning by Kim Jang-soo, director of national security for President Park Geun-hye, came three days after the South Korea's defense minister said that the North had moved to its east coast a missile with a "considerable range" but not capable of reaching the mainland United States.

The missile was widely believed to be the Musudan, which the South

Korean military says can travel "more than" 3,000 kilometers or 1,864 miles. But South Korean media and analysts say the missile can extend its range to 4,000 kilometers, which would put U.S. bases in Guam within its reach.

Kim said that the North Korean authorities had told foreign embassies in Pyongyang to inform them by Wednesday whether they needed assistance in evacuating should they wish to because of rising tensions on the peninsula.

The North gave a similar warning to some of the 123 South Korean factories in the joint industry park in the North Korean city of Kaesong, Kim said.

"We believe this is a calculated move by the North," Kim said during

a meeting of security-related officials on Sunday. The North, he said, "may launch a provocation, such as missile launch," around Wednesday, he said.

North Korea was raising tensions in an effort to frighten and force the U.S. and South Korea to return to dialogue with possible concessions, Kim said. The pressure was also aimed at China and Russia to mediate on North Korea's behalf.

Also on Sunday, Gen. Jung Seung-Jo, chairman of the Joint Chiefs of Staff of the South Korean military, postponed plans to meet with his U.S. counterpart, Gen. Martin E. Dempsey, in Washington on April 16, military officials said. Jung could not be away from South Korea amid the rising tension, the officials said.

Wary of events in China, foreign investors take money to Cambodia

By Keith Bradsher
THE NEW YORK TIMES

Tiffany & Co. is quietly building a diamond-polishing factory in Cambodia, a country popularly associated more with killing fields and land mines than baubles.

Some of Japan's biggest manufacturers are also rushing to set up operations in Phnom Penh to make wiring harnesses for cars and touch screens and vibration motors for cellphones. European companies are not far behind, making dance shoes and microfiber sleeves for

sunglasses.

Foreign companies are flocking to Cambodia for a simple reason: They want to limit their overwhelming reliance on factories in China.

Problems are multiplying fast for foreign investors in China. Blue-collar wages have surged, quadrupling in the last decade as a factory construction boom has coincided with waning numbers of young people interested in factory jobs. Starting last year, the labor force has actually begun shrinking because of the "one child" policy and an aging population.

"Every couple days, I'm getting calls from manufacturers who want to move their businesses here from China," said Bradley Gordon, a U.S. lawyer in Phnom Penh.

But multinationals are finding that while they can run from China's rising wages, they cannot truly hide. The populations, economies and even electricity output of most Southeast Asian countries are smaller than in many Chinese provinces, and sometimes smaller than a single Chinese city. As companies shift south, they quickly use up local labor supplies and push wages up sharply.

Gap in university faculty pay continues to grow, report says

For the academic elite — tenured professors at private research universities — average pay this year is \$167,118, while at public research universities such professors earn \$123,393, according to the annual report by the American Association of University Professors.

After three years in which overall increases in full-time faculty pay lagged behind the rate of inflation, this year's average increase, 1.7 percent, kept pace with consumer prices.

But the difficult economic climate is taking a serious toll on higher education, especially public institutions. Average pay for assistant professors at private colleges that award only bachelor's degrees is \$62,763, while public colleges paid \$58,591.

And with stretched budgets and public pressure to keep costs down, many colleges and universities are cutting back on tenure and tenure-track jobs. According to the report, such positions now make up only 24 percent of the academic workforce, with the bulk of the teaching load shifted to adjuncts, part-timers, graduate students and full-time professors not on the tenure track.

—Tamar Lewin, *The New York Times*

Body on subway tracks goes unnoticed for hours

NEW YORK — She entered the subway system sometime around 1 a.m. on Sunday, dressed in dark clothes and dark boots as if coming from a night on the town. By the afternoon, her lifeless body lay among the soot-darkened track ties and trash under Canal Street.

Had she been hit by a train? Could the severe injuries to her head have been caused by a fall from the platform? How had none of the passengers passing through the downtown side of the station, or any of the train operators, noticed the body?

The police did not classify the death as a homicide, but as that of someone "dead on arrival," leaving open the question of how she perished.

—J. David Goodman, *The New York Times*

In Egypt, attacks on Christians

CAIRO — Police officers firing tear gas joined with a rock-throwing crowd fighting a group of Christian mourners Sunday in a battle that escalated into an attack on Egypt's main Coptic Christian Cathedral that lasted for hours.

It was the third day of an outburst of sectarian violence that is testing the pledges of Egypt's Islamist president to protect the country's Christian minority. By nightfall at least one person had died from the day's clashes, bringing the weekend's death toll to six.

—David D. Kirkpatrick and Kareem Fahim, *The New York Times*

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Promoting open access at the federal level

The public deserves to be able to access the research it funds

By Daniel Day
and Arolyn Conwill

With the increasingly prohibitive cost to access scientific journal articles and the significant amount of research that is funded by the U.S. government, many scientists and taxpayers support measures that increase public access to the results of federally funded research. This "open access" movement aims to establish a policy for federally-funded research to become publicly accessible after an established period of time post-publication, usually within one year. Because this research is funded by U.S. taxpayers, we believe that it is reasonable to expect free access to the fruits of our investment.

Furthermore, in addition to enabling taxpayers to have access to research that they have funded, open access policies enhance opportunities for innovation in this country by allowing more people to utilize existing research. Small businesses, startups, and independent inventors often cannot afford expensive journal subscription packages but would use relatively recent research if it were made available, potentially enhancing competitiveness and economic output. Open access also supports education for high school students, undergraduates and graduate students, whose institutions may not be able to afford extensive journal subscriptions.

Over the past three years, we have pushed Congress to pass bills that establish an open access policy, most recently encapsulated in the Fair Access to Science and Technology Research (FASTR) bill which has been introduced to both houses

of Congress by bipartisan groups during the current legislative session (S. 350 and H.R. 708). The proposed legislation is modeled after an existing National Institutes of Health (NIH) policy and would require government agencies with research expenditures exceeding \$100 million per year (such as the National Science Foundation, the Department of Energy, and the Department of Defense, among others) to set up digital archives for publications resulting from their grants. Researchers would be required to post their manuscripts to the digital archive within six months of publication. There are reasonable exceptions to protect classified research and patentable discoveries.

Open access will foster innovation and bolster America's economic competitiveness.

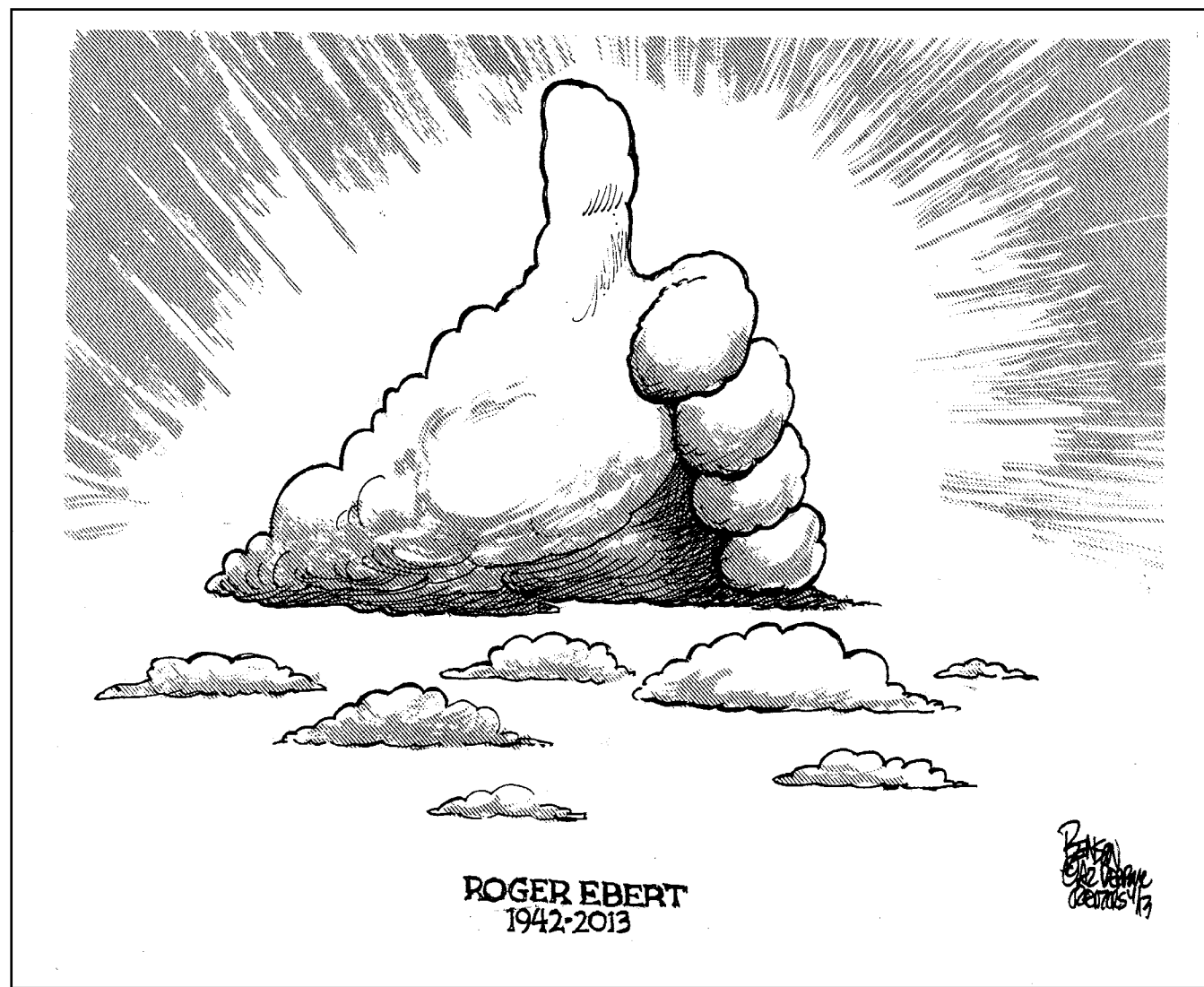
Since 2008, a similar system has been in place at the NIH, the largest non-defense federal research funding agency in the country. PubMedCentral, the NIH's public-access article repository, currently includes 2.6 million full text articles, and its maintenance only costs ~0.01 percent of the NIH's budget. While we appreciate the role of publishers in the editing process and the potential impacts of open access on their revenue streams, evidence suggests that the selection of high-quality work can still be maintained under open access policies. In fact, the NIH policy only

had marginal impacts on the publishing industry because major research institutions and companies are unwilling to endure the embargo period between formal publication and inclusion in an open access database. For example, the Economist reported that, in 2011, Elsevier (a large publisher of scientific research) enjoyed a healthy profit margin of 37 percent.

In response to a We the People petition that reflects growing public support, the Obama Administration has recently issued an executive order to implement open access to research funded by the largest (in terms of research expenditure) federal agencies. While the President's support is encouraging, an executive order generally lacks the longevity of federal law. It is therefore critical to continue our efforts to incorporate open access policies into the law.

Many groups have pushed for adopting this type of policy universally across all federal research grant agencies. MIT's Graduate Student Council (GSC) as well as a larger umbrella organization of graduate students, the National Association of Graduate-Professional Students (NAGPS), have persistently lobbied Congress to adopt such policies. To our knowledge, we are the only student groups advocating for open access in Washington.

If you support improving the nation's access to federally-funded research, then we strongly encourage you not only to contact your local and home representatives in Congress, but to join us in discussing how these policies affect you and your communities and how you can contribute to making open access the law of the land.



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Flawed US reactors

Ex-regulator says all US nuclear reactors flawed, must be replaced

By **Matthew L. Wald**
THE NEW YORK TIMES

WASHINGTON — All 104 nuclear power reactors now in operation in the United States have a safety problem that cannot be fixed and they should be replaced with newer technology, the former chairman of the Nuclear Regulatory Commission said on Monday. Shutting them all down at once is not practical, he said, but he supports phasing them out rather than trying to extend their lives.

The position of the former chairman, Gregory B. Jaczko, is not unusual in that various anti-nuclear groups take the same stance. But it is highly unusual for a former head of the nuclear commission to so bluntly criticize an industry whose safety he was previously in charge of ensuring.

Asked why he did not make these points when he was chairman, Jaczko said in an interview after his remarks, "I didn't really come to it until recently."

"I was just thinking about the issues more, and watching as the industry and the regulators and the whole nuclear safety community continues to try to figure out how to address these very, very difficult problems," which were made more evident by the 2011 Fukushima nuclear accident in Japan, he said. "Continuing to put Band-Aid

on Band-Aid is not going to fix the problem."

Jaczko said that many U.S. reactors that had received permission from the nuclear commission to operate for 20 years beyond their initial 40-year licenses probably would not last that long.

He also rejected as unfeasible changes proposed by the commission that would allow reactor owners to apply for a second 20-year extension, meaning that some reactors would run for a total of 80 years.

Jaczko cited a well-known characteristic of nuclear reactor fuel to continue to generate copious amounts of heat after a chain reaction is shut down. That "decay heat" is what led to the Fukushima meltdowns. The solution, he said, was probably smaller reactors in which the heat could not push the temperature to the fuel's melting point.

The nuclear industry disagreed with Jaczko's assessment.

"U.S. nuclear energy facilities are operating safely," said Marvin S. Fertel, president and chief executive of the Nuclear Energy Institute. "That was the case prior to Greg Jaczko's tenure as Nuclear Regulatory Commission chairman. It was the case during his tenure as NRC chairman, as acknowledged by the NRC's special Fukushima response task force and evidenced by a multitude of safety and performance indicators.

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This space donated by The Tech

Solution to Techdoku

from page 5

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

Solution to Sudoku

from page 5

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

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Residents pack City Hall for Kendall rezoning

Opponents worried about housing squeeze, 'pricing out' low- to middle-income residents

Kendall, from Page 1

said was intended to be a deal "closer." Reif's remarks were accompanied by letters of support from the deans of MIT's five schools. Last

"bribes" and "eggs in [the councillors'] baskets." They also took the opportunity to revisit long-standing points of contention such as graduate housing, noise levels, affordability, and economic diversity.

and business executives and leaving no room for lower- or even middle-income residents, who would be "priced out" of high-end restaurants and apartments. "This is about gentrification," he said. In time, "nobody who voted for you will still be living in this neighborhood," he told the city councillors to applause from the audience.

Of the more than 300 units of housing at Innovation Landing, MIT has committed to keeping 18 percent priced at an affordable rate for low-income households. The petition also includes other requirements for moderate-income housing and "innovation housing" that the city hopes will be ideally priced and sized for startup hires and graduate students.

Brian L. Spatocco G, president of the Graduate Student Council, announced a resolution of the GSC supporting the petition under the condition that interests of graduate students are taken into account.

ing group under the leadership of Phillip L. Clay PhD '75, who also spoke to the City Council last week.

Other residents of the city echoed Salvucci's worries, but not everyone.

"Yes, in my backyard," said one resident of the types of developments MIT hopes to bring to Kendall Square.

The rezoning allows for up to 980,000 new square feet of commercial development and at least 240,000 new square feet of residential development, in addition to the 800,000 square feet currently permitted for academic (including dormitory) uses. In some regions, the rezoning permits buildings as high as 300 feet, taller than the Green Building.

Last night, opponents of the petition called these measures 'bribes' and 'eggs in [the councillors'] baskets.'

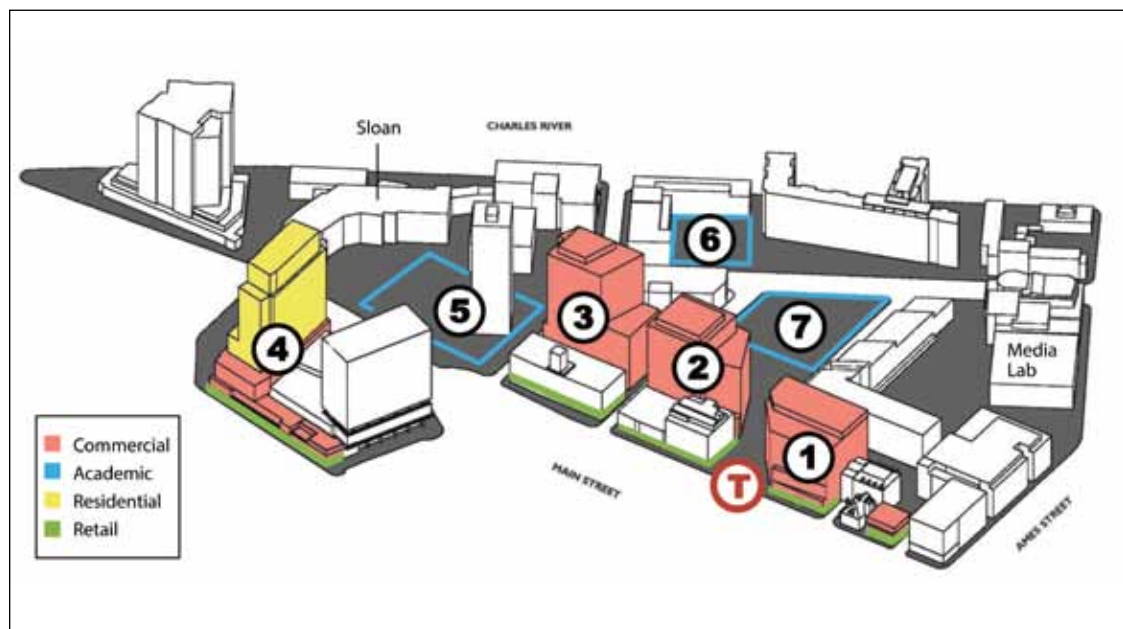
week, MIT also made a number of promises in response to demands from city councillors. Contributions to community benefits were upped from \$10 million to \$14 million, and MIT committed to using only union labor during construction.

Last night, opponents of the petition called these measures

Fred P. Salvucci '61 — MIT Civil Engineering lecturer and former Massachusetts secretary of transportation — struck a chord with many of the audience when he raised concerns that the developments MIT has in mind will exacerbate Cambridge's housing squeeze, attracting technologists

'Yes, in my backyard,' said one resident of the types of developments MIT hopes to bring to Kendall Square.

Those interests include the need for graduate housing, which is currently being investigated by a work-



COURTESY OF SARAH GALLOP

MIT plans to replace seven parking lots with new mixed-use development. Though the city has passed the rezoning proposal, each new building will still have to go through design and approval processes.



COURTESY OF SARAH GALLOP

An artistic rendering of an early conception of a new gateway to MIT where the current Kendall T stop stands, across from the Marriott Hotel. The gateway is intended to mirror the prominence of 77 Mass. Ave.



COURTESY OF SARAH GALLOP

Another view of an early conception of a new gateway. These renderings include the MIT Press Building, the fate of which is unclear due to historical considerations.



COURTESY OF SARAH GALLOP

A possible view from 3rd Street. MIT hopes that new retail in Kendall Square will bring a diverse lineup of storefronts.



COURTESY OF SARAH GALLOP

MIT's plans include large open spaces for pedestrians, and possibly indoor public commons. Shown here is a possible view of ground-floor spaces near the Kendall T stop.

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STARR FORUM

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Friday, April 12, 2013
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 Bartos Theater | Bldg E15-070
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Speakers include:
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 Charles Glaser (GWU), Mike Mochizuki (GWU),
 Liu Weimin (Chinese Embassy, Washington, D.C.)

Moderated by Richard Samuels (MIT)

Co-sponsored by CIS and the MIT Security Studies Program

Texas growers eye immigration laws

Labor-strapped growers eye reform

By Lynn Brezosky
SAN ANTONIO EXPRESS-NEWS

Dimmit County onion grower Bruce Frasier spends the pre-dawn hours drawing up spreadsheets balancing the day's inventories of young plants with orders from big-box retailers, commercial farms and direct-mail buyers across the country. The variable is always labor.

"I never know how many will show up," he said, surveying the long lines of sprouts ready for transplant Friday. Not surprisingly, Frasier is an outspoken proponent of a new agricultural guest worker program, said to be one of the key pieces, if not sticking points, of comprehensive immigration reform being hammered out behind closed doors in Congress.

He says his own operation is proof that there are farmworkers who want to come to the United States, work and go back home. Despite his workforce concerns, Frasier considers himself one of the lucky ones. Since he lives only an hour from the border, he can count on vans bringing workers from near a bridge linking Eagle Pass and Piedras Negras, Mexico. The most adept at pulling, banding and cutting the plants will make about \$80 per day and be returning by mid-day to homes in Mexico. He says he checks to see whether they can work legally in the U.S. But there's no certainty about how many will show up, and there's a shortage of workers on the U.S. side.

The oil and gas drilling boom in the Eagle Ford Shale, credited with creating more than 116,000 jobs in a 20-county area in 2012, is exacerbating the labor problems. Field hands are leaving to take higher-paying jobs with energy companies, making it harder than ever for farmers in the area to find workers at harvest time.

Frasier's American workers — who can earn as much as \$20 an hour — are aging, and their children aren't interested in farm work. "In the end, my crop won't wait," he

wrote in a recent newspaper opinion piece. "If I can't find enough willing and able U.S. workers, I need a fast, legal, reliable way to hire foreign farmhands."

Frasier said he would bring on workers who aren't citizens or green-card holders, but that would mean tapping the H-2A visa program, a temporary work program that allows farmers to bring in foreign labor. To use it, farmers need to petition the State Department and show that there aren't enough U.S. or legal immigrant workers to get the job done and that U.S. workers' wages won't be hurt.

In Frasier's opinion, the program is cumbersome and counterproductive. "We can't do H-2A because in H-2A you're supposed to offer the American workers first," he said. "That means my H-2A workers would be sitting there waiting to see how many of these people showed up, and then I could put them to work. And if they didn't go to work, I would have to pay them anyway."

The program also ties workers to specific employers, rather than letting workers follow the crops. In practice, the program has been limited to large growers with staff lawyers or outside agents to handle the paperwork. Meanwhile, the use of undocumented labor continues. About 48 percent of farm laborers don't have legal status to work in the U.S., according to a National Agricultural Workers Survey, and just 33 percent are U.S. citizens.

Others say the percentage of undocumented farmworkers is higher. The United Farm Workers estimates 1 million of the nation's 1.6 million farmworkers are undocumented, which is 63 percent. With such numbers, sources close to negotiations in Congress say bipartisan "gang of eight" groups in both chambers know they can't ignore agriculture.

Insiders say long-awaited proposals for comprehensive immigration reform are imminent, with published reports expecting a Senate proposal within a few weeks.

LEGATUM LECTURE

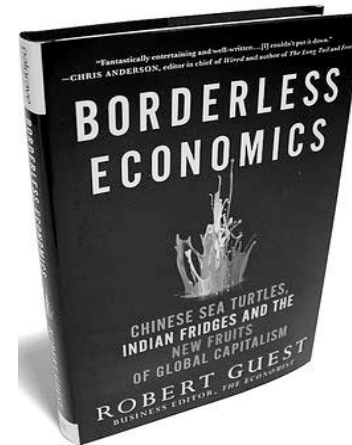


BORDERLESS ECONOMICS: CHINESE SEA TURTLES, INDIAN FRIDGES AND THE NEW FRUITS OF GLOBAL CAPITALISM

SPEAKER:

Robert Guest

Author & Business Editor
The Economist



Thursday, April 11 | 5:00 pm

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E25-111

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Solution to Techdoku II
from page 6

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2	1	4	6	3	5

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Newly elected UA leadership elaborates on plans

UA relationship with community, student spaces, online education on their to-do list

UA, from Page 1

ing money, it's the UA Finboard (Finance Board) that allocates those funds." To improve the UA's image, one of their goals is "adding new public relations, an A-caliber public relations committee head that we're looking for right now."

Rao and Cornish expressed interest in getting ideas from people who aren't part of the UA.

Finally, when looking at a feedback system for their performance they hope to establish approval ratings and both physical and virtual "idea boxes," the former for the UA to get a sense of how its doing, and the latter for MIT students' ideas. The UA currently has an idea box

at ua.bonfireapp.com, but the last post was in December 2012.

Increasing student spaces

The second task the pair hopes to accomplish is increasing student space, starting with the Student Center restaurant space, which will soon be up for reallocation. "We

will approve and set into place what the first and second floor of the Student Center will look like," said Rao. "After we have graduated, the restaurants will be put in place in 2013 or 2014. It's something that we definitely understand we have a big responsibility to take care of."

"We are excited to work with a new IS&T head for this upcoming year," continued Cornish. "We hope to modernize the Athena clusters by adding more outlets which can be used for laptops, things that are smaller objects that have larger impacts to the MIT community."

Both want to change Saferide. Their proposals include running Boston Daytime on the weekends; and tracking how many people from each stop get on and working to optimize the locations to gather the most people around Boston.

In changing the UA, Rao and Cornish hope to change and add new committee heads. "Our main method is to understand the goals of the committee head and see if they fit with what we want to do. If we are on the same page, then we'll keep going with them," stated Rao.

Online education

In order to have a thorough understanding of online education, Rao and Cornish said they would reach out to students and work with the new Institute-Wide Task Force on Online Education. Cornish, who is on the task force, said that "a critical step is to have a lot of cross talk between students and the faculty to understand everyone across the spectrum and not just looking to promote one teaching method." Rao maintained the belief that the UA's role in online education will be based on student input.

The first few days

Looking at what the UA will plan to do in the next 30 days, Rao and Cornish broke up their agenda into a long-term and short-term list. "Long-term is ensuring modes of

communication between the UA and the students," said Rao. "Short-term is to use the summer term to build up ideas like looking into the Saferide structure, working to expand super UROPS across majors, improving infrastructure of dorms on campus, and doing movie nights at the beginning of the semester."

To improve the UA's image, Rao and Cornish are looking for a new A-caliber public relations committee head.

"But our key focus right now," said Rao, "is to have the strongest leaders in the UA so that we can hit the ground running come Sept. 15."

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Solution to Crossword

from page 6

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BURY	AQABA
VERONESE	STU
REDROSE	SEEALSO
ABS	LIARLIAR
OSAGE	ZEDS
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BREL	TEC
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File Edit Options Buffers Tools Im-Python Python Help

from new_skills import *

```
def learnMarketableJobSkills():
    return linux, OSX, javascript, applescript, perl, python, PHP
```

```
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```

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MELISSA RENÉE SCHUMACHER—THE TECH
Two vintage P-51 Mustangs from the Air Force Heritage Flight Foundation flew over Fenway Park on Monday to mark the start of the Red Sox's first home game of the season, against the Baltimore Orioles.

This space donated by *The Tech*

EBONY AFFAIR

A REFLECTION

April 27th, 7pm | Morss Hall

An elegant, formal event, the 38th Annual Ebony Affair will include a cocktail hour, dinner, keynote speaker Dr. Aprille Ericsson, and live artistic and musical performances. All members of the MIT community are both welcome and encouraged to attend. **Formal Attire is Required**

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Spring 2013 Wulff Lecture

Department of Materials Science and Engineering

Tuesday, April 9, 2013

4:00–5:00 pm

Room 26-100

Reception immediately following

Printing Functional Materials

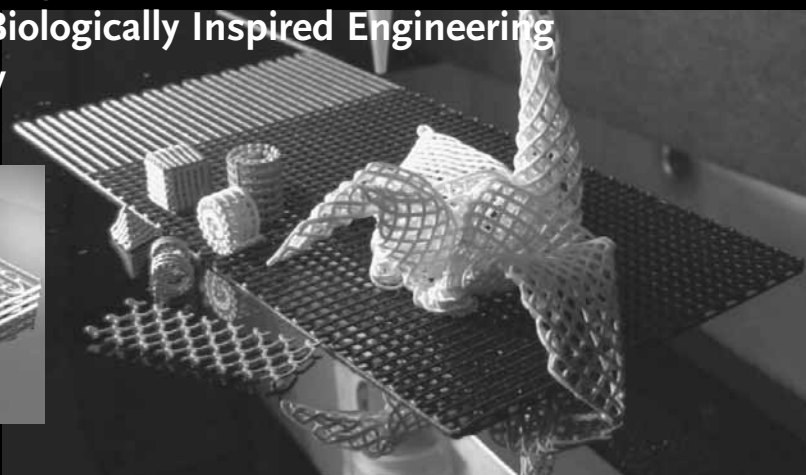
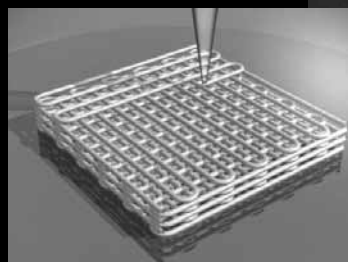
Professor Jennifer A. Lewis

Hansjörg Wyss Professor of Biologically Inspired Engineering

School of Engineering and Applied Sciences

Wyss Institute of Biologically Inspired Engineering

Harvard University



The ability to pattern functional materials in planar and three-dimensional forms is critical to many emerging applications, including printed electronics, self-healing materials, and tissue engineering scaffolds. 3D printing enables rapid design and fabrication of materials in arbitrary shapes without expensive tooling, dies, or lithographic masks. This talk describes the design and rheological properties of model and functional inks and their implementation in 3D printing of microelectrodes for pen-on-paper electronics, flexible photovoltaics, and electrically small antennas; hydrogel matrices with embedded microvascularization; and 3D hydrogel scaffolds for tissue engineering. Advances in high throughput printing of materials via multinozzle arrays will be highlighted.

The Wulff Lecture is an introductory, general-audience, entertaining lecture which serves to educate, inspire, and encourage MIT undergraduates to take up study in the field of materials science and engineering and related fields. The entire MIT community, particularly freshmen, is invited to attend. The Wulff Lecture honors the late Professor John Wulff, a skilled, provocative, and entertaining teacher who inaugurated a new approach to teaching the popular freshman subject: 3.091 Introduction to Solid State Chemistry.



Blood and Gore in MIT Dramashop's "Elektra"



HyoJeong Choi '13 (foreground) and Hrant Gharibyan '14 perform in the Dramashop's production of *Elektra*. The play will be shown at the Kresge Little Theatre this Thursday, Friday, and Saturday at 8 p.m.

SUBRAMANIAN SUNDARAM—THE TECH

EVENTS

APR. 09 – APR. 15

TUESDAY

(4:15 p.m. – 5:30 p.m.) Oil Dependence, "Oilpacity," and U.S. Foreign Policy in Africa — 66-110

(7:30 p.m.) Screening of Spanish movie *Blancanieves* — 10-250

WEDNESDAY

(12:00 p.m. – 2:00 p.m.) CAST Music and Technology Seminar Series presents Tristan Perich — 14W-111

(5:00 p.m. – 6:30 p.m.) IMES Distinguished Speaker Series: Is the Genome Useful in Medicine — NE30, Broad Institute Auditorium

(6:30 p.m. – 7:30 p.m.) The Neuroscience of Musical Improvisation — NW-86

THURSDAY

(5:00 p.m. – 7:00 p.m.) News or Entertainment? The Press in Modern Political Campaigns — E14-633

(7:00 p.m. – 9:00 p.m.) Urban Films: *Up the Yangtze* (2008) — 66-110

FRIDAY

(4:30 p.m. – 6:30 p.m.) Starr Forum: On the Rocks: China and Japan in the East China Sea — E15-070

(8:00 p.m. – 9:00 p.m.) Roadkill Buffet Presents: The "Mandatory Class of 2017 Welcome Meeting" — 6-120

SATURDAY

(1:00 p.m. – 3:30 p.m.) Marvelous Molecules in Play — Cambridge Public Library Lecture Hall, 449 Broadway, Cambridge

(8:00 p.m. – 10:00 p.m.) Music and Technology Bleep Blop Performance — 14W-111

SUNDAY

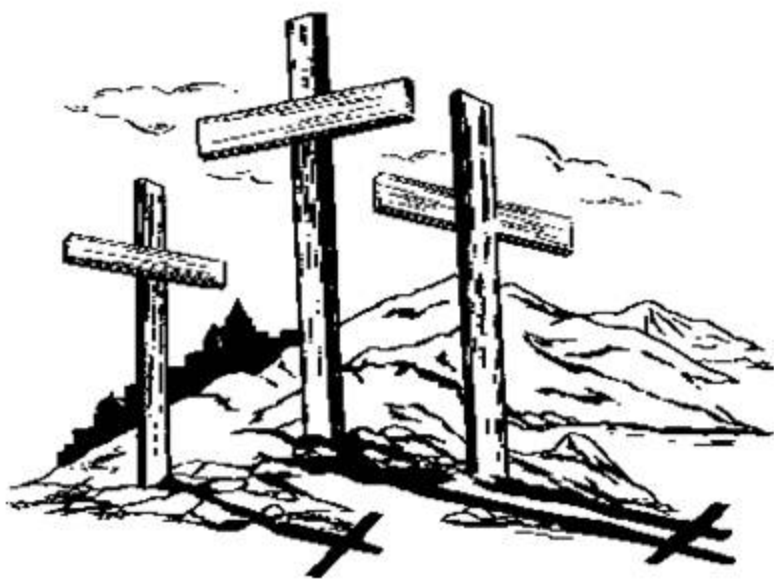
(7:00 p.m.) LSC presents *The Hobbit: An Unexpected Journey* — 26-100

(8:45 p.m. – 10:00 p.m.) Game of Thrones Viewing Party, 21+ — Thirsty Ear Pub

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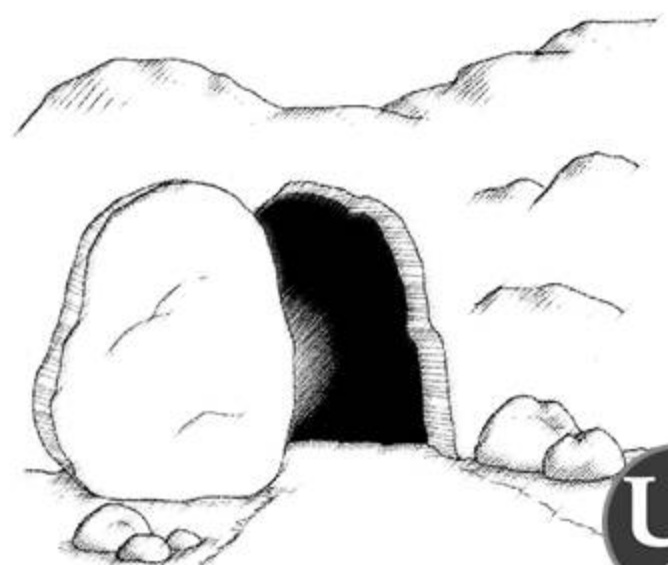


Baptist Student Fellowship's Question Night

Wednesday, April 10, 2013

W11-080

(Christian Fellowship Lounge)



MIT scores 11 runs in each game of doubleheader

Baseball team improves to 14-3 on the season after winning both games over WPI

By Phil Hess
DAPER STAFF

Eleven was the magic number for the MIT baseball team Saturday as the Engineers scored 11 runs in each game of a New England Women's and Men's Athletic Conference doubleheader against WPI. MIT had a five-run inning in game one and an eight-run frame in the second game that were keys to 11-3 and 11-5 victories that completed the three-game series sweep for the Engineers. Creed J. Mangrum '14 drove in three runs in each game, combining to go 5-for-9 with a double and home run.

WPI (9-18, 4-10 NEWMAC) scored first in game one, as Vinny D'Ambrosio led off the bottom of the first with a walk, stole second and then went to third on a wild pitch. With two outs D.J. Ouellette '16 delivered the run with a single to right to give the Engineers an early lead.

MIT (14-3, 10-1 NEWMAC) broke through in the third when Mangrum delivered a two-out, two-run single that put the Engineers up 2-1. MIT then opened things up with five runs in the fourth to take control. Starting with Ricardo J. Perez '13, who led off the inning with a triple,

the first four MIT hitters in the inning collected hits. Nate H. Rodman '16 and Karl M. Sorensen '15 had RBI singles that made it 4-1 before Jon E. Rea '14 brought in the third run with a squeeze bunt. Another run came in on a WPI error and Mangrum completed the uprising with an RBI single that made it 7-1.

Mangrum finished with a combined line of 5-for-9 with six RBI. Rodman also had a 5-for-9 day, driving in three.

MIT starter, Kiel L. Jindra '14, held WPI in check for most of his five innings on the mound. After giving up the first inning run, he surrendered just three more hits and two unearned runs and finished with nine strikeouts to improve to 2-0 on the season. Brandon M. Lowe '14 finished things off for MIT with two innings of two-hit relief. Mark Bentsen started and took the loss for WPI, going four innings and giving up nine hits and seven runs, five earned, while striking out three.

WPI closed to 7-3 with a pair of runs in

its half of the fourth on a passed ball and a bases loaded walk, but MIT came back with two in the fifth and two in the seventh to clinch it, including a solo home run by Rodman in the seventh.

In game two MIT scored first in the second on a fielder's choice by Patrick E. Dayton '14. Kyle J. Parent '15 started for MIT and did not give up a hit until the third when WPI struck for a pair to claim the lead. Sean P. Kelly '14 led off the frame with a triple and then scored on a one-out RBI single by Cody Holmes, who then moved to second on a ground out. With two away Anthony Capuano singled to right to score Holmes and put the Engineers on top.

MIT took the lead right back with two in the fourth, getting an RBI single by Parker A. Tew '15 and a sac fly by Rea. In the fifth the third lead change of the contest occurred as WPI struck for three runs. The Engineers loaded the bases on a single and a pair of two-out walks for Alex Venditti, who singled home a pair to put WPI back on top, 4-3. Ouellette then singled in another to give the Engineers a two-run lead.

Taylor Landry, the WPI starter, settled down after the fourth and gave up just one hit over the next three innings. In the

eighth, however, he saw the first six hitters reach against him, hitting three of those. Perez and Rodman delivered RBI singles to tie the game before Dayton was hit by a pitch with the bases loaded to break the tie. With the bases still loaded James R. McKinney '13 brought two home with a single to chase Landry. Mangrum then delivered the big hit, a three-run home run, which clinched it for MIT.

Aric J. Dama '13 came out of the bullpen to pick up the win, throwing a perfect 2.1 innings in which he struck out five of the seven hitters he faced. Landry took the loss, giving up 10 runs on 10 hits over 7.2 innings.

Mangrum finished with a combined line of 5-for-9 with six RBI and three runs scored to lead MIT. Rodman also had a 5-for-9 day, scoring six times and driving in three. Kelly went a combined 3-for-8 and scored three times for WPI, with Capuano, Venditti and Ouellette all driving in a pair for the Engineers.

Next up for MIT will be a completion of its NEWMAC series with Babson, with the Engineers hosting the Beavers on today at 3:30 p.m. at Briggs Field. WPI will also be completing a NEWMAC series, as it travels to Wheaton today for a 3:30 p.m. tilt.



VANESSA TREVINO—THE TECH

James R. McKinney '13 hits a single to drive in a run in the eighth inning against WPI last Friday. Later in the eighth inning, Creed J. Mangrum '14 hit the second home run for the Engineers. Ricardo J. Perez '13 delivered a home run in the first inning and Henry Zhu '13 closed the game pitching in the ninth inning. MIT defeated WPI 11-7 and completed the NEWMAC series 11-3 and 11-5 the following day.

UPCOMING HOME EVENTS

Tuesday, April 9

Sailing vs. Midweek Firefly Invitational	4 p.m., Charles River
Baseball vs. Babson College	3:30 p.m., Briggs Field
Men's Volleyball vs. Endicott College	7 p.m., Rockwell Cage

Wednesday, April 10

Baseball vs. Curry College	3:30 p.m., Briggs Field
----------------------------	-------------------------

Do you wish your sport was covered?

Hello, Athletes, look at the sports page, now back to you, now back to the sports page, now back to you. Sadly, your sport isn't there, but if you started writing for *The Tech*, it could be. Look down, back up, where are you? You're on the front page. Anything is possible when you write for *The Tech*.

sports@tech.mit.edu

Women's tennis falls short

Engineers finish fourth in 2013 Nor'Easter Bowl; Next matchup is against Brandeis on Saturday

By Phil Hess
DAPER STAFF

Playing against a ranked opponent for the third time in as many days at the 2013 Nor'Easter Bowl, the No. 21 MIT women's tennis team found itself on the short end of an 8-1 score against No. 24 Trinity (Conn.) College. The Engineers finished fourth in the eight-team tournament with the loss, with Lauren C. Quisenberry '14 scoring the lone point for MIT with a victory in singles play.

Things did not start well for MIT (14-4) as Trinity (6-4) started things off with a sweep of the doubles matches. The Engineers were close to a point in the No. 3 match, as Michelle M. Dutt '15 and Sunnie E. Lampl '16 put up a good fight against the Trinity pair of Elizabeth Gerber and Regan Cherna before falling 8-6. The Bantams took the No. 1 match by an 8-4

score and the No. 2, 8-1, to take a 3-0 lead going into singles.

Quisenberry, who went 3-0 in the No. 1 singles position during the tournament, put MIT on the board after taking a hard fought, 6-4, 7-5 victory over Melita Ferjanic. All of the singles matches would be straight set affairs, but the Engineers were shutout in the rest of the flights as Trinity went on to score the win.

Vynnie J. Kong '15, playing at No. 2 against Hillary Hoyt, had a good match but could not overcome her opponent in a 6-4, 6-3 defeat. Junior Julia C. Hsu '14 was the only other MIT player to win more than two games in a set, falling 6-3, 6-3 at No. 6 to Frances Cameron.

MIT will be back on the courts next Saturday, April 13, when it plays at Brandeis University at 11:00 a.m. Trinity will host Connecticut College on Tuesday at 4:00 p.m. in its next match.



Kyra Home '15 runs the ball past two defenders during the women's rugby game versus Wentworth Institute of Technology this past Saturday. MIT won 53-10.

SOPHIE LEE

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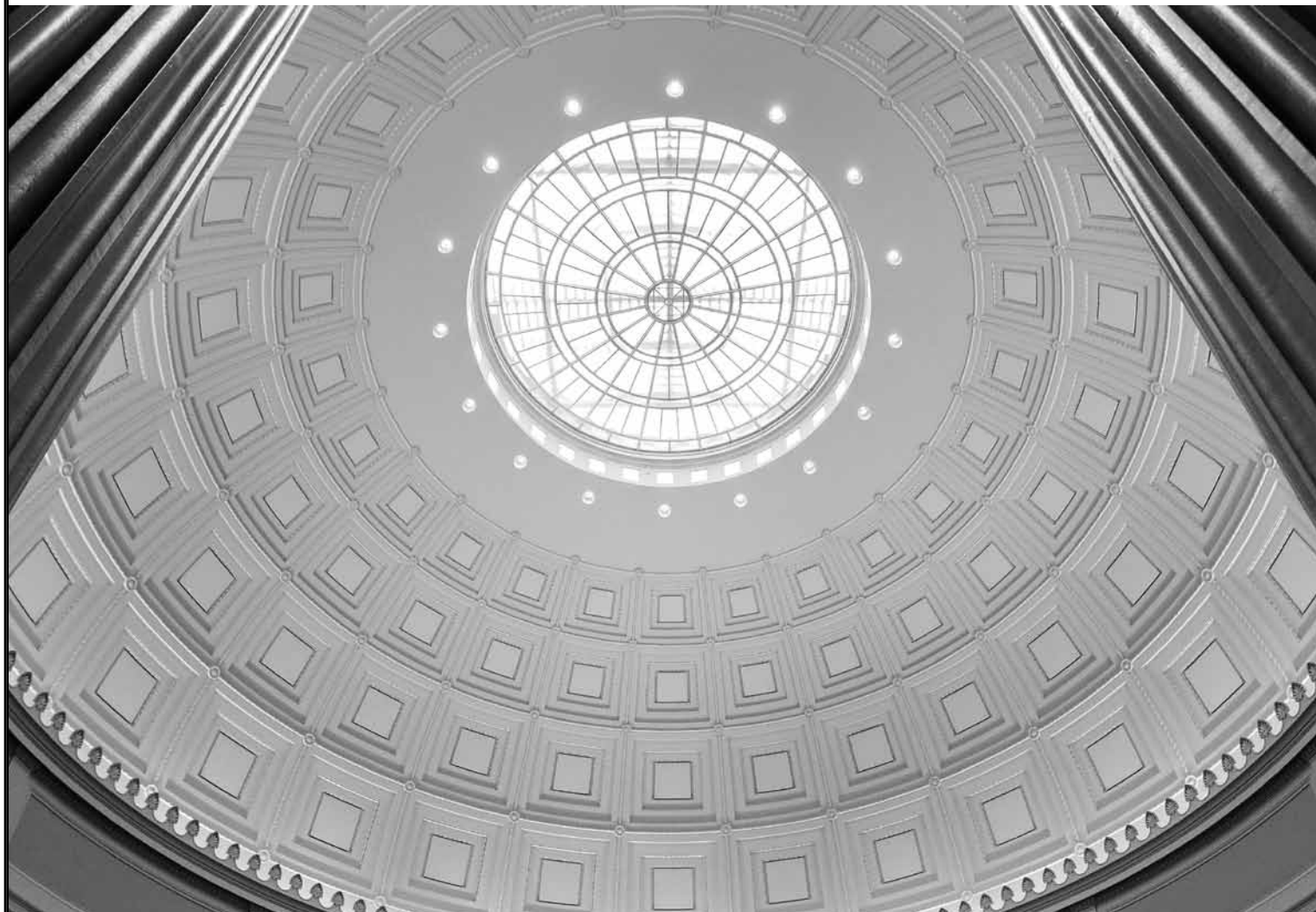
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(617) 253-5249
books@mit.edu
9-7 M-F, 12-6 Sa, 12-6 Su

APRIL
10
2 PM

OPENING THE DOME

Celebrate the Restoration of MIT's Great Dome



Join us for a community open house celebrating the historic restoration of MIT's Great Dome and the opening of Barker Library's 24-hour reading room.

Wednesday, April 10, 2013, 2-4pm • Barker Library Reading Room

Remarks by President L. Rafael Reif. Refreshments to follow.



DO YOU LIKE:

FREE DINNER, VIDEO GAMES, FRIENDLY PEOPLE,
CAMERAS, STUPID JOKES, FREE STUFF, SNACKS,
SHINY COMPUTERS, NOT AS SHINY FLOORS, AND...

NEWSPAPERS?



CPW OPEN HOUSE

HOSTED BY THE TECH

THURSDAY, APRIL 11

6PM-12AM

DINNER AT 6:30

TECH OFFICE

W20-483

Student Center 4th floor,
just follow the signs!

Come visit our office and watch the paper get made.
Play Super Smash Bros., chat with our staff, enjoy
some brownies, and learn about newspapers!

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