tech.mit.edu



WEATHER, p. 2 SAT: 73°F | 58°F Showers SUN: 76°F | 57°F

Volume 134, Number 25 Friday, May 9, 2014



Members of MIT DanceTroupe perform "The Cave" during a rehearsal of Snapchats & Tattoos, their Spring 2014 dance showcase. Performances will continue through tonight and tomorrow evening.

Institute announces new environmental initiative

Unnamed program to fund interdisciplinary research will be headed by Susan Solomon

By Austin Hess

EDITOR IN CHIEF

MIT announced Thursday a new initiative on the environment meant to "promote transformative, cross-disciplinary research," according to a press release.

The initiative, which still doesn't have an official name, is intended to connect research from the Department of Earth, Atmospheric, and Planetary Sciences; the Department of Urban Studies and Planning; the Department of Civil and Environmental Engineering; the Center for Global Change Science; and the Earth System Initiative, among other departments and programs, according to MIT.

In an email to the MIT community Thursday, President L. Rafael Reif said The Abdul Latif Jameel World Water and Food Security Lab (J-WAFS), announced Tuesday, would also be a "major component" of the initiative.

The release said the new initiative would also "link closely" with parts of the MIT Energy Initiative (MITEI), which was established in

Reif's email also said that Susan Solomon, the Ellen Swallow Richards Professor of Atmospheric Chemistry and Climate Science would be the first director of the program.

According to MIT's press release, Solomon will be the director only for the first year of the project before returning to research and teaching; a search committee will be formed immediately to find a permanent director to lead what Reif called the program's "mature second stage."

Funding for the first five years of the program's operation will be provided in part

Initiative, Page 10

Walsh vows housing crackdown in Boston

Boston mayor promises fines, inspections for off-campus college student housing

By Jonathan Saltzman and Jenn Abelson

THE BOSTON GLOBE

Mayor Martin J. Walsh said Wednesday that the city will levy \$300 daily fines on scofflaw landlords, increase the number of inspections, and demand that colleges in Boston disclose the addresses of undergraduate students living off campus, measures designed to protect the health and safety of tens of thousands of university students.

"My concern is the life of every young college student living off campus in overcrowded apartments," Walsh said.

The mayor's announcement follows this week's Globe Spotlight Team investigation that reported that illegally overcrowded apartments riddle the city's college neighborhoods, where some absentee landlords maximize profits by packing in students who often seek apartments off campus because universities admit more students than they can house.

Meanwhile, Northeaster versity said Wednesday that it may sever its relationship with one of Boston's most notorious landlords,

who has received millions from the school over the past decade to house its students in a dozen buildings near the campus. The university's ties to the landlord were a focus of the Spotlight report.

Walsh, responding to the report's findings about landlords who repeatedly violate city and state regulations but receive kidglove treatment from regulators and the courts, pledged to crack down and fine property owners \$300 a day for each violation.

The city already has the power to impose such fines, but rarely does so.

Walsh said in a phone interview: "We absolutely have to be

The mayor also plans to hire more inspectors to regularly check the city's 154,000 rental units for potential code violations. The Globe series uncovered widespread problems in Allston, Brighton, Fenway, and Mission Hill, where students were living with a host of indignities and hazards, from rodent and nest infestations, to doors without working locks, to missing smoke

Boston Housing, Page 8

Senior House to receive RLAD by fall despite residents' opposition RLAD to move into dorm after construction of apartment

By Kath Xu NEWS EDITOR

By this fall, every dorm on campus will have a Residential Life Area Director (RLAD). Since the program began two years ago, each dorm has successively received one except for Senior House, home to some of the most vocal opponents.

Residents learned of this change Wednesday night in an email announcement from the Senior House Housemaster, Philosophy Professor Agustin Rayo PhD '01. The RLAD will not live in the dorm at first: it is unclear when an apartment will be built for the RLAD to move in.

In the email, Rayo said that Wednesday was also the first time he was informed of the by MIT's Division of Student Life.

Many Senior House residents have expressed frustration at the change, and some, like Senior House's Dormitory Council Representative Alina Kononov '14, plan to fight against it.

"This decision appears to have been made by DSL unilaterally, without a drop of consideration of all the discussion that took place two years ago," wrote Kononov in an email to The Tech, referring to meetings that took place between Senior House and the DSL when the administration first considered implementing the program there.

She added, "I dread the prospect, and many residents are furious."

No students or GRTs seemed to have had any advanced notice of this decision.

In a written statement to the *The* Tech, Senior House president Rodrigo Lopez Uricoechea '16 said, "Many residents feel that we were left out of the decision making process, since we were merely informed of the final decision... In addition, residents do not understand what recent changes have prompted

RLAD, Page 9

Lamine Touré dances as Rambax, MIT's Senegalese Drum Ensemble, performs outside the Student Center on Saturday afternoon. The group was founded in 2001 and is co-directed by Lamine Touré and the group's faculty advisor Professor Patricia J. Tang.

IN SHORT

Subject evaluations are now open. Provide feedback on your classes and teachers at http:// web.mit.edu/subjectevaluation. The new shorter form takes less than five minutes to complete. Evaluations close at 9 a.m. on Monday, May 19.

You can give blood in the Stu-

dent Center next week. MIT's American Red Cross Team and Network will be holding a blood drive next Monday, May 12 from 1-6 p.m., Tuesday, May 13 from 8 a.m.-1p.m., Wednesday, May 14 from 1-6 p.m., and Thursday, May 15 from 1-6p.m. in La Sala.

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

UPPERCUT

Life as part of the modern scavenging

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TECHDOKU

Because who does final projects.

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Because who studies for finals. FUN, p. 5



DEBUGGING, Q.E.D. STYLE

How to avoid unintentional obfuscation of your code. FUN, p. 6

FINALS WEEK

Something about the spirit of William Barton Rogers. Or something. By The Tim.

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U.N. report documents atrocities in South Sudan war

Both sides in the South Sudan civil war have committed crimes against humanity including arbitrary killings, mass rapes and other sexual violence, systematic pillaging and attacks on churches, hospitals and international aid facilities, the U.N. Peacekeeping Mission in South Sudan said Thursday in its most detailed report on the conflict.

The 61-page report by the peacekeeping mission's human rights division, along with an equally sobering Amnesty International account of the war that has upended the young country over the past half year, came as preparations were underway for talks between President Salva Kiir and his chief antagonist, the rebel leader Riek Machar, in the Ethiopian capital, Addis Ababa.

Violence has continued to rage in South Sudan, with more than 1 million people displaced, and the U.N. has warned that famine threatens much of the country in a humanitarian disaster that eclipses Syria's in scope.

The peacekeeping mission's report, which was based on interviews with more than 900 victims and witnesses, detailed paroxysms of violence that began in the capital, Juba, on Dec. 15, and spread elsewhere, basically splitting along ethnic lines between the Dinka tribe of Kiir and the Nuer tribe of Machar.

The report said that "from the very outset of the violence, gross violations of human rights and serious violations of humanitarian law have occurred on a massive scale."

Based on the mission's human rights division documentation, it said, "there are reasonable grounds to believe that violations of international human rights and humanitarian law have been committed by both parties to the conflict."

-Rick Gladstone, The New York Times

Ad agency giants are said to call off \$35 billion merger

Omnicom Group and Publicis have called off their \$35 billion merger, bringing a premature end to a deal that would have created the largest advertising company in the world, according to people briefed on the matter.

A mix of clashing personalities, disagreements over how the companies would be integrated and complications over legal and tax issues derailed the deal nine months after it was announced.

The boards of both companies met Thursday to finalize the decision, which brings to an end an ambitious union between two companies.

Omnicom, based in New York and led by John D. Wren, grew through acquisitions and came to dominate Madison Avenue with a family of agencies including BBDO, TBWA and DDB.

Publicis, based in Paris and led by Maurice Lévy, owns Leo Burnett and Saatchi & Saatchi. Both Wren and Lévy are strongwilled, and people close to the deal said that their personalities clashed. At the time the deal was announced, the companies agreed that both men would be co-chief executives to start, and that after 30 months, Wren, who is 60, would become sole chief executive while Lévy, 71, would become nonexecutive chairman.

But by February, Wren was signaling that the deal could be in jeopardy

'This transaction is highly complex and is taking longer than we originally expected," Wren said while discussing fourth-quarter earnings with analysts.

Both companies have spent nearly a year preparing for the merger, leaving teams at both companies distracted, according to people briefed on the matter. The impending deal also created an opening for Omnicom and Publicis rivals. In recent months, WPP, the other big advertising group, has poached several big accounts from both Omnicom and Publicis.

Many of the world's biggest corporate clients would have also then been served by the same operating company. AT&T, Visa and Pepsi are Omnicom clients, while McDonald's, Coca-Cola and Wal-Mart work with Publicis.

—David Gelles, The New York Times

Election commission votes to allow bitcoin donations

By Nick Corasaniti THE NEW YORK TIMES

WASHINGTON — The Federal Election Commission voted Thursday to allow political committees to accept bitcoin donations and outlined the ways that the virtual currency can be used by federally regulated campaigns.

Responding to a request from a political action committee, the commissioners unanimously approved an advisory opinion that defined bitcoins, which allows for online transactions without going through a bank or other third party, as "money or anything of value" - in essence, cash or an inkind contribution.

They also imposed some restrictions, ruling that bitcoin donations will be capped at a cash equivalent of \$100 per person per cycle, with the value determined at the time of the donation, and that a complete accounting of name, address and employer must accompany the donation.

Committees can liquidate a bitcoin contribution immediately, or they can choose to keep it as an investment, as they do with stocks and bonds

Since the value of the virtual currency can fluctuate suddenly, the opportunity for a windfall is real, but is growing rarer as it

The opinion also allows committees to buy bitcoins on the open market, but prohibits them from using the coins to pay for goods or services. They must be liquidated into U.S. currency before being spent.

The ruling is both an acknowledgment of the currency's growing popularity and a move to protect against efforts to circumvent campaign finance laws.

Bitcoins can be difficult to trace, potentially opening the gates to both illegal and foreign

Although the opinion provides some clarity for campaign committees, it is not likely to lead to a deluge of bitcoin donations.

"Besides the compliance burden, it's an invitation for a headache," said David Mitrani, an associate at Sandler Reiff Lamb Rosenstein & Birkenstock in Washington who specializes in federal and state campaign finance law.

Still, the introduction of a new source of financing could be important to some smaller campaigns and committees, especially those with significant backing from libertarians, who have embraced the currency.

The Libertarian Party has already built a small but loyal bitcoin donor base, receiving \$10,000 to \$20,000 a year in the currency.

Rep. Steve Stockman, R-Texas, a bitcoin enthusiast, accepted bitcoin contributions to his primary campaign against Sen. John Cornyn this year.

Greg Abbott, a Republican candidate for governor in Texas, announced last month that he would be accepting bitcoins, and he already has a few in his campaign war chest.

And Rep. Jared Polis, D-Colo., announced after the ruling that he would begin accepting bitcoin donations for his re-election campaign.

Kellogg agrees to change labeling on Kashi line

By Stephanie Strom

The Kellogg Co., maker of some of the country's most familiar breakfast cereals, said Thursday that it had agreed to drop the terms "all natural" and "nothing artificial" from some products in its Kashi line as part of a settlement agreement ending a class-action lawsuit.

Plaintiffs in the lawsuit, filed in 2011 in California, said the company used those terms on Kashi products that contained ingredients like pyridoxine hydrochloride, calcium pantothenate and soy oil processed using hexane, a component of gasoline.

Such ingredients occur naturally — wheat germ and flaxseed are sources of pyridoxine hydrochloride, for example — but food companies, as well as makers of vitamins, often use synthetic versions to control costs and ensure consistent supplies.

"We stand behind our advertising

§ Hurricane

and labeling practices," Kris Charles, a Kellogg spokeswoman, said in a statement. "We will comply with the terms of the settlement agreement by the end of the year and will continue to ensure our foods meet our high quality and nutrition standards while delivering the great taste people expect."

The settlement, which includes a \$5 million payment, comes at a time when food companies are facing a number of lawsuits over ingredients and labeling.

Consumers have sued Chobani and other companies, saying that their use of the phrase "evaporated cane juice" to describe a sweetener is simply an attempt to hide sugar.

Kashi, once a darling of shoppers favoring organic and natural foods, has hit turbulence in recent years. Some consumers attacked it on social media in 2012 after learning that Kellogg was a big contributor to an effort that helped defeat Proposition

37, a California ballot initiative that would have required the labeling of products containing genetically engineered ingredients. Sales of the brand had started slipping even before that controversy, and last fall, John A. Bryant, chief executive of Kellogg, told investors that Kashi had become too mainstream.

In an earnings call this month, Bryant said distribution of Kashi through grocery stores had shrunk. "There have been some retailers that are more mainstream in orientation that probably took on a bit more of Kashi than they could sustain in that sort of outlet," he said on the call.

He added that Kashi sales through retailers like natural foods stores were doing well. And despite Kellogg's opposition to labeling that would indicate whether ingredients included genetically modified organisms, the company has paid to have some Kashi products certified by the Non-GMO Project.

WEATHER

Showers precede spring warm-up

By Vince Agard

STAFF METEOROLOGIST

The last weekend of spring semester will get off to a rainy start. A frontal system will pass through the area today and tomorrow, bringing the possibility of rain showers, and even the occasional thunderstorm. Today, in advance of the system, onshore winds will combine with cloud cover to keep temperatures in check. However, a warm front will pass through the

area overnight, leading to considerably warmer temperatures during the day on Saturday.

After the system passes through, above-normal temperatures will arise in its wake. Bright sunshine and a strong offshore wind will combine to bring temperatures into the middle 70s (°F) on Sunday, and temperatures could even flirt with the 80°F mark in spots on Monday. In contrast, the normal high temperature for Boston on May 12 is 65°F.

Extended Forecast

Today: Cloudy with a chance of showers, high 61°F (16°C). Wind SE at 5-10 mph, becoming gustier in the afternoon

Tonight: Cloudy and breezy, low 55°F (13°C). Winds S at 10-15 mph.

Tomorrow: Cloudy with rain showers, high 73°F (23°C). Winds SW at 10-15 mph.

Sunday: Sunny, highs in the mid 70s °F (24°C). Monday: Sunny, highs in the upper 70s °F (26°C).

40°N 30°N 25°N Situation for Noon Eastern Time, Friday, May 9, 2014 Precipitation Symbols Weather Fronts Fog $\dot{\nabla}$ Thund * O Haze **

and The Tech

Friday, May 9, 2014

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Obama policy bans employee use of leaked material

By Charlie Savage

THE NEW YORK TIMES

WASHINGTON — The Obama administration is clamping down on a technique that government officials have long used to join in public discussions of well-known but technically still-secret information: citing news reports based on unauthorized disclosures.

A new pre-publication review policy for the Office of Director of National Intelligence says current and former employees and contractors may not cite news reports based on leaks in their speeches, opinion articles, books, term papers or other unofficial writings.

Such officials "must not use sourcing that comes from known leaks, or unauthorized disclosures of sensitive information," it says. "The use of such information in a publication can confirm the validity of an unauthorized disclosure and cause further harm to national security."

Failure to comply "may result in the imposition of civil and administrative penalties, and may result in the loss of security clearances and accesses," it says

It follows a policy that James R. Clapper Jr., the director of national intelligence, issued in March that bars officials at all 17 intelligence agencies from speaking without permission to journalists about unclassified information related to intelligence. Timothy H. Edgar, a visiting professor at Brown University who worked at the intelligence office and the White House from 2006 to 2013, said it was appropriate to block former officials from disclosing classified information and confirming leaks.

But, he said, it went too far to retroactively block former officials from citing news reports in the public domain, as long as they did so neutrally and did not confirm them as factually correct. That would amount to a prior restraint on former officials' First Amendment rights that they did not consent to, he said.

"You're basically saying people can't talk about what everyone in the country is talking about," he said. "I think that is awkward and overly broad in terms of restricting speech."

Intelligence officials have long

agreed to submit writings for prepublication review as a condition of receiving security clearances. While the goal of the old policy was to ensure "the protection of classified information," the new policy is subtly broader: "to prevent the unauthorized disclosure of information."

Anchukaitis said the change was intended to acknowledge that there are other types of sensitive information whose release was already restricted, such as proprietary business data submitted for contract negotiations or personnel information covered by the Privacy Act.

The new policy is written ambiguously in places. It combines what had been two directives — one governing official agency writings and another covering unofficial writings by both current and former employees — into one. It is sometimes unclear which categories are covered by particular rules. The new policy was signed last month and first reported on Thursday on the Secrecy News blog by Steven Aftergood, the director of the Project on Government Secrecy for the Federation of American Scientists.

Snapchat settles charge with FTC that it deceived users

By Jenna Wortham

THE NEW YORK TIMES

The disappearing act of messages on Snapchat, the mobile messaging service, has not been as foolproof as the company promised.

The Federal Trade Commission said Thursday that Snapchat had agreed to settle charges that the company was deceiving users about the ephemeral nature of the photos and video messages sent through its service. In marketing the service, Snapchat has said that its messages "disappear forever." But in its complaint, the commission said the messages, often called snaps, could be saved in several ways. The commission said that users could save a message by using a third-party app, for example, or employ simple workarounds that allow users to take a screenshot of messages without detection.

The complaint also said Snapchat transmitted users' location information and collected sensitive data like address book contacts, despite its saying that it did not collect such information. The commission said the policies allowed security researchers to compile a database of 4.6 million user names and phone numbers during a recent security breach.

"If a company markets privacy and security as key selling points in pitching its service to consumers, it is critical that it keep those promises," Edith Ramirez, the chairwoman for the Federal Trade Commission, said in a statement. "Any company that makes misrepresentations to consumers about its privacy and security practices risks F.T.C. action."

Under the terms of the settlement, Snapchat will be prohibited from misrepresenting how it maintains the privacy and confidentially of user information. The company will also be required to start a wideranging privacy program that will be independently monitored for 20 years. Fines could ensue if the company does not comply with the agreement.

eement. "While we were focused on building, some things didn't get the attention they could have," the company said in a statement.

The company added: "Even before today's consent decree was announced, we had resolved most of those concerns over the past year by improving the wording of our privacy policy, app description, and in-app just-in-time notifications. And we continue to invest heavily in security and countermeasures to prevent abuse."

The company declined an interview request. Snapchat warns users about potential data collection in its privacy statement. The company says: "There may be ways to access messages while still in temporary storage on recipients' devices or, forensically, even after they are deleted. You should not use Snapchat to send messages if you want to be certain that the recipient cannot keep a copy." Last year, Snapchat, which is based in Los Angeles, turned down a multibillion-dollar buyout offer from Facebook.

Tensions rise between China and Vietnam over disputed waters

By Jane Perlez

BEIJING — China demanded that Vietnam withdraw ships from disputed waters around a Chinese drilling rig Thursday — the latest volley in a standoff that has quickly escalated into one of the most serious in years in the contested South

China Sea.

The latest tensions began last week when a state-owned Chinese energy company moved the rig into position, and intensified as ships sent by both countries faced off against each other.

On Thursday, a Chinese Foreign Ministry official said that Vietnamese ships had rammed Chinese vessels as many as 171 times over four days. The announcement followed accusations by Vietnam on Wednesday that Chinese ships had rammed its vessels early this week and sprayed the Vietnamese flotilla with water cannons.

The Chinese, who on Thursday admitted to the use of water cannons, say Vietnam has dispatched 35 ships to the area, while the Vietnamese have said the Chinese deployed about 80 yessels.

The movement of the drilling rig follows recent attempts by China to solidify its increasingly muscular claims over both the South China Sea, one of the world's major trading routes, and the East China Sea.

In November, Beijing declared an air defense zone over a swath of the East China Sea, including islands that both China and Japan claim, and demanded that other countries notify the Chinese authorities before their planes pass through the airspace

Although the U.S. military and Japanese aircraft flouted the demands, analysts have suggested the air defense zone helps China build its case for taking over the disputed islands, which Japan controls.

China has also appeared to tight-

en its hold over a reef called Scarborough Shoal in the South China Sea, which the Philippines claims.

The disputes have raised concerns in Washington, which has been trying to carefully calibrate its response to the various territorial claims. The Obama administration has courted countries in Southeast Asia as a counterbalance to China's power, but it has also been trying not to antagonize the Chinese.

On Thursday, the U.S. assistant secretary of state for East Asian and Pacific Affairs, Daniel R. Russel, who was on a trip to Hanoi, Vietnam, said that the latest dispute had been a major topic of his discussions there.

"We oppose any act of intimidation by vessels, particularly in disputed areas," he said. The United States did not take a position on the competing claims of sovereignty, he added, but the disputes need to be "dealt with diplomatically and must be dealt with in accordance to international laws."

Oklahoma, investigating failure, extends delay of execution to November

Oklahoma on Thursday delayed the execution of Charles F. Warner by six months, to allow time for a review of lethal injection procedures that was started after a bungled execution last week left a prisoner writhing in pain before he died of heart failure.

The Oklahoma Court of Criminal Appeals issued the stay after the attorney general's office said it would not object. Warner's execution is now scheduled for Nov. 13, and the attorney general said the office would be open to further delays if the investigation was not completed by then.

Warner, who was convicted of the rape and murder of an 11-month-old girl, was originally scheduled to die April 29, two hours after the execution of another convicted murderer, Clayton D. Lockett.

The executions had been the subject of last-minute legal battles, with lawyers for the two prisoners objecting because the state had refused to reveal the source of the drugs it would use.

Soon after Lockett's execution began, it was apparent to witnesses that he had not been fully sedated as two follow-up drugs were injected, one to cause paralysis and stop breathing and one to stop the heart. As he began to buck and moan in apparent agony, corrections officials pulled the blinds on witnesses. The intravenous delivery of the drugs had failed, officials later said, and Lockett died of heart failure 43 minutes after the procedure began. Gov. Mary Fallin immediately delayed Warner's execution by two weeks.

Two days later the chief of corrections, Robert Patton, revealed that Lockett had been shocked with a Taser on the morning of the scheduled execution when he refused to leave his cell, and that he had cut himself.

Patton also revealed that it had taken 51 minutes to insert an intravenous line. After no suitable vein was found on Lockett's limbs, a needle was inserted through his groin, a more difficult procedure because the intended vein is not visible.

Fallin has appointed Michael C. Thompson, the commissioner of public safety, to lead the investigation of what went wrong and what changes in procedures and training may be necessary. Lawyers for Warner and Lockett have called instead for an independent investigation, not one led by a state official.

-Erik Eckholm, The New York Times

Apple said to be in talks to buy Beats for \$3.2 billion

Apple is in talks to acquire Beats Electronics for about \$3.2 billion, according to a person briefed on the matter.

A deal could be announced next week, but may still fall apart, this person cautioned.

An acquisition would be Apple's largest ever and would see the maker of the iPhone acquire the biggest manufacturer of high-end headphones.

Beats was founded by Jimmy Iovine, the music producer, and Dr. Dre, the rapper and producer, and has invigorated the market for premium headphones and portable speakers. More recently, Beats began a streaming music service that competes with Spotify and Apple's own iTunes music service.

For Apple, the deal represents a major break in its acquisitions strategy. To date, Apple's has focused on buying technology providers that it then incorporates into its existing products. But by buying Beats, Apple's chief executive, Tim Cook, would signal his willingness to acquire established brands.

The Financial Times first reported news of the deal.

—David Gelles, The New York Times

Ukranians favor unity as Putin's reputation grows at home, polls find

Ukrainians, including most Russian speakers, want to keep their country united with its current borders intact but there are concerns about the government. While few Ukrainians have confidence in President Vladimir Putin of Russia, his reputation has grown considerably at home, with more than 80 percent of Russians trusting his handling of world affairs.

These are some of the results of two polls conducted by the Pew Research Center last month, after the annexation of Crimea but before recent violence in several Ukrainian cities

Ukrainians have also become more distrustful of Russia in general. Two-thirds of Ukrainians say that Russia is a bad influence on their country. In 2009, only a quarter considered its impact as a negative.

The evaluation of the United States improved slightly over the same period, while the European Union was seen as about the same. Yet while Russian speakers in Ukraine are divided over the influence of Russia, they are much more negative about both the United States and the European Union.

Although few in the international community acknowledge the validity of Crimea's secession from Ukraine, Russians overwhelmingly say the government in Kiev should recognize the referendum results and allow Crimea to join Russia.

As Russians feel more positive about their country and their military, they have increasingly negative views of the United States and the European Union.

Only 23 percent have a favorable opinion of the United States, down from 51 percent last year. For the European Union, 39 percent of Russians have a favorable opinion, down from 63 percent last year.

In addition, tensions have caused Russian views of Chancellor Angela Merkel of Germany and President Barack Obama to deteriorate, although the Ukrainian image of those leaders has stayed fairly steady over the past few years.

In-person interviews were conducted in April with 1,000 Russian adults and 1,659 Ukrainian adults. The margin of error for the Ukraine poll is 3 percentage points; it is 4 percentage points for the Russian poll.

-Marjorie Connelly, The New York Times



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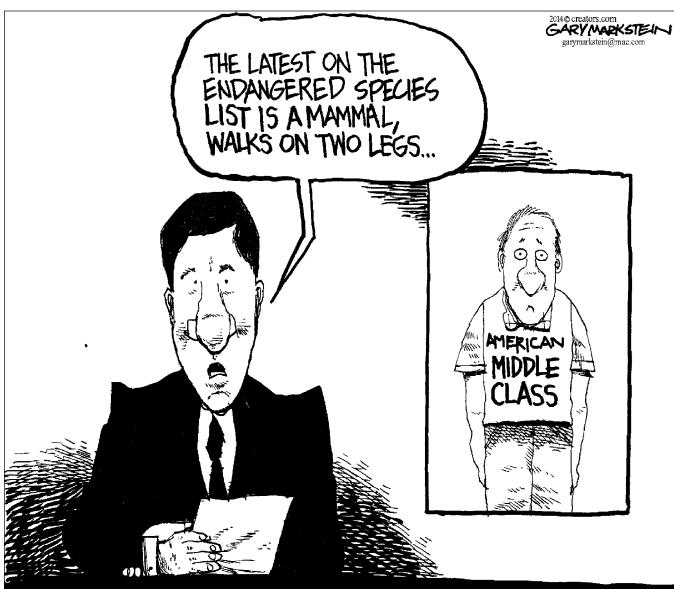
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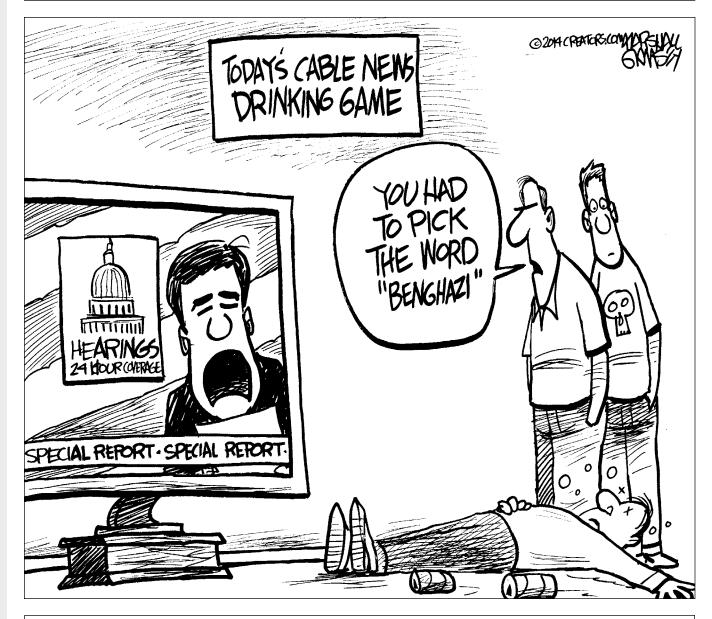
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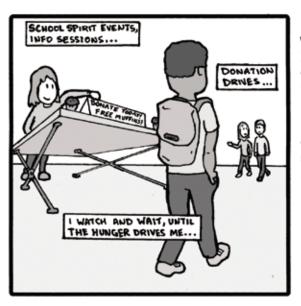
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THE CAMPUS, LOOKING FOR MY NEXT SCORE







Sudoku

Solution, page 9

File

Edit

Options

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

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.

Buffers

Tools

Im-Python

Techdoku

Solution, page 9

108×		2×		20×	
	60×		2÷		1
10×	_	90×		36×	
	24×			1	
	5		16+		15×
4×			2	<u> </u>	

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.

Help

Python

NEUNEUN TUNEUNEUNEUNEUNE

Q.E.D. (QUITE EASILY DONE)

HOW YOU SEE YOUR CODE WHILE YOU'RE TYPING IT

function [sum] = add(x,y) sum = x + y;display(sum) end 0 0 THIS CODE'S SIMPLE ENOUGH, I DON'T NEED TO COMMENT IT.

HOW YOU SEE IT 3 DAYS LATER

function[var1,n,mplus] = solvePro temp = ones(y3,n)*exp(mplus/s for jj = 1:(var1^5)-2 display('its working!'); aaa = conv(inputx,temp); if 1==1 inputx(jj+1)=sign(input temp2 = mod(temp1,mplus if aaa > temp2 break; end end figure; plot(fft(aaa)); h=gca

WHAT THE FUNCTION?!

BY ERIKA TRENT

% PREVENT THIS TORMENT.. % YOU BETTER COMMENT!

WWW.QEDCOMICS.COM

Sudoku II

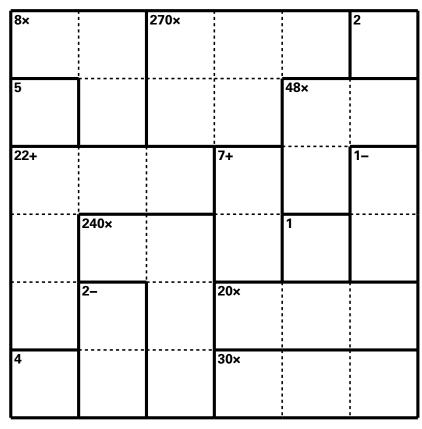
Solution, page 9

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

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 II

Solution, page 9



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.

Joint Effort by Carolyn Stewart

ACROSS

- 1 Picnic invaders
- 5 Girls and women 9 Went out with
- 14 Alphabetize
- 15 Ancient legend
- 16 Off-white color
- 17 Two of a kind 18 Creative thought
- 19 Spine-chilling
- 20 Football protective item
- 23 Discontinue 24 Children's game
- 25 Dweeb

FUNFUNFUNFUNFUNFU

- 26 Soviet spy org.
- 29 __ carotene
- 31 Rambunctious
- 35 Wendy's competitor
- 37 Space to maneuver 40 "OK to have a look?"
- 43 Confessed
- 44 Old-fashioned boy's trousers
- 47 Strong point
- 46 Director Ephron

- 48 Enlightening material
- 51 Adriatic, for one 52 Name as a source
- 54 Bachelor's last words
- 56 Unruly crowd
- 59 Tricky pitch
- 64 Cyberspace letters
- 66 See 65 Down
- 67 Lotion additive
- 68 From then on 69 Windshield treatment
- 70 Natural satellite
- 71 War horse
- 72 Hot springs 73 PIN takers

DOWN

- 1 Egyptian snakes
- 2 Biblical boat builder
- 3 Three of a kind 4 Walk like a peacock
- 5 Little bit
- 6 Stevenson villain
- 7 Never-ending
- 8 Give form to

- 10 Many a state name in DC
- 12 Land of leprechauns
- 22 Traffic-sign shape

- 30 Typical driving student
- 34 "__ kidding!
- 36 Diner desserts
- 38 Ship's petty officer

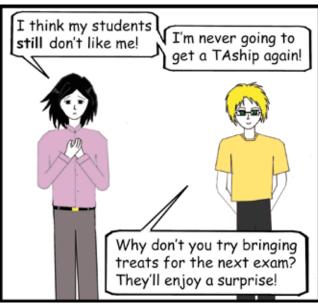
- 42 Dine at home
- 49 Boneless beef
- 50 Praise in verse

- 9 Lost steam
- 11 Ripped up
- 13 Not naturally colored
- 21 Scientific workplace

- 26 Soccer move 27 West African nation
- 28 Dog-biscuit shapes
- 32 Small songbird
- 33 Extinct birds

- 39 Film rating org.
- 41 Marked like some sparrow
- eggs
- 45 Neckwear accessory
- 53 Clumps of grass 55 Last State of the Union
- 20 23 32 | 33 | 34 35 40 41 |42 44 59 61 | 62 | 63 69 68 70
 - deliverer
- 56 Predicament
- 57 Fail to mention
- 58 Ruination
- 60 Hawaiian coffee center
- 61 Frequently
- 62 Rug-making apparatus
- 63 Microscope part
- 65 With 66 Across, polar bear hangout

Somewhere on the Search for Meaning... by Letitia Li

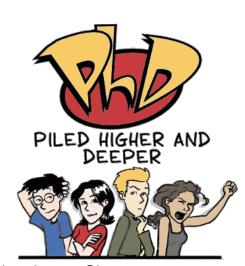




Problem 10.

Find the inductance of your donut and use it to build a buck converter with efficiency of at least 99.99%.

If you've already eaten it... well... that's unfortunate.



by Jorge Cham

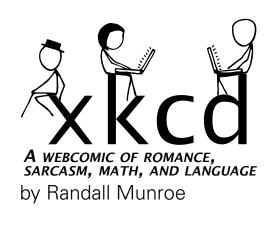


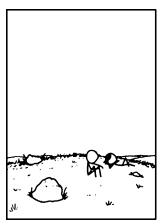




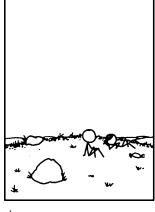
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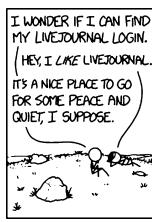
[1362] Morse Code











Oh, because Facebook has worked out SO WELL for everyone.

In Full by Billie Truitt

Solution, page 9

ACROSS

- 1 Folded fare
- 5 Einsteinium, for one 10 Indian tourist center
- 14 Sixth-day creation
- 15 Worth having
- 16 Creepy look 17 Vault feature
- 20 Not divided
- 21 Upscale import
- 22 Ill-bred guy
- 23 Just a bit
- 25 Unavailing 28 Pack animals
- 29 Barbarians
- 32 Bummed out
- 33 Scatter
- 35 Québec quintet 36 Reliable investment
- 39 Unwitting victim
- 40 Passed along
- 41 Use a crowbar on
- 42 Big and strong 43 Puzzle with plus signs

- 47 Almost never
- 49 Stinging crawler 50 Long time
- 51 Heights of perfection
- 54 Box-score stat 55 Allow no choice
- 59 Letters below TUV
- 60 Wear down
- 61 Nonstandard contraction
- 62 Salon supplies
- 63 Spa handout
- 64 Poker prizes

DOWN

- 1 Puget Sound city
- 2 Handsome guy
- 3 Oasis visitors
- 4 Govt. spending watchdog
- 5 Dollars and cents 6 Page sent online
- 7 Danseuse's skirt
- 8 Unrepaired
- 9 MGM icon
- 10 Fifth word of the Koran

- 11 Dome descriptor
- 12 DVR button
- 13 Ft. Smith's state 18 "Let me think about it"
- 19 Many PX patrons
- 24 Rollout
- 25 Full of info
- 26 Rangy
- 27 On the double
- 29 None of the above
- 30 Question intensely
- 31 Make good on 34 Disorderly crowd, in Devon
- 35 Encrypted
- 36 Inner diameter
- 37 Understandable to a general audience
- 38 Španish saint
- 39 Car-rental extra
- 42 Pro __ work 44 Bodega locale
- 45 Not vielding 46 Some beach-house

supports

- 18 19 20 22 23 29 | 30 | 31 33 51 52 53 61
 - 48 Take-charge types
 - 49 Rise up
 - 51 Prefix for dynamic
 - 52 Gloat
 - 53 Whipped up
- 55 Beast in the first Wizard of Oz scene
- 56 Imitate
- 57 Do a background check on
- 58 Gavel sound

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City mayor to crack down on landlords

Walsh aims to increase ordinance enforcement for student housing

Boston Housing, from Page 1

detectors, and bedrooms crammed illegally into basements or firetrap attics.

The city had already earmarked money to pay for five additional inspectors to carry out a new inspection regimen. But Walsh said that is not enough and that he will hire more. But he did not have specifics on how many or when.

The mayor also said he intends to meet soon with representatives of all the colleges in Boston to insist that they turn over addresses of undergraduates living off campus, review university expansion plans, and make schools live up to promises to move students out of the neighborhoods and onto campus.

Northeastern University, for example, signed an agreement with the city in 2004 to end, within five years, its practice of leasing apartments for students in privately owned buildings in the Fenway area.

Some landlords commonly flout the no-more-than four zoning rule in college areas.

But Northeastern, which houses only 47 percent of undergraduates on campus, continues to rent apartments for 600 students. More than half of them live in buildings owned by one of the city's most infamous landlords, Anwar N. Faisal.

"If you make a commitment to do something as a college or a university, you should live up to that," said Walsh, who called the Globe Wednesday to detail his plan to protect students.

Northeastern said Wednesday that it is reconsidering its business relationship with Faisal, one of the biggest landlords for college students in Boston. The Spotlight Team found that Faisal and his real estate companies, including Alpha Management Corp., have been defendants in dozens of criminal and civil cases in Boston Housing Court over the past decade.

The Spotlight Team, as part of its investigation, recently surveyed students living in 40 apartments in six Faisal buildings on Hemenway and St. Stephen streets. The occupants of 37 of those apartments, or 93 percent, reported at least one significant problem, such as pests, mold, inoperable smoke alarms, and broken locks on apartment doors.

"The leadership of Northeastern University is extremely concerned about revelations uncovered by The Boston Globe's recent investigative series on student housing in Boston," Steven Kadish, senior vice president and chief operating officer for the school, wrote in a letter to Faisal Wednesday.

"The multiple and specific examples of abhorrent living conditions in your company's apartments are very troubling and, if substantiated, warrant your immediate attention and response."

Kadish wrote that Northeastern intends to carefully study the Globe's findings. "If, after a thorough review of the facts, we are not satisfied with the quality of student housing your company provides, Northeastern will conclude its master leasing arrangement with Alpha Management and discourage our students from independently renting apartments from Alpha Management," he wrote.

Michael Armini, Northeastern's senior vice president for external affairs, said the school will carry out its review over the summer and into the fall. Armini said Northeastern, which bankrolled renovations in units it leased from Faisal, had focused on these units, rather than apartments that students rent directly from the landlord in the same buildings.

"Certainly, the revelations of the last few days have heightened our interest in all of Alpha Management's properties," he said.

Faisal could not be reached Wednesday afternoon. A woman who answered the phone at Faisal's Brookline office said Alpha had no comment about the letter Northeastern sent.

Ethan Arruda-Leuppert, who graduated from Northeastern in 2012 and rented directly from Alpha during his senior year, said he was surprised that his alma mater would do business with Faisal. He said the university should terminate its relationship with him.

"It was miserable," Arruda-Leuppert, 23, said of his time living at 311 Huntington Ave., where he said Alpha Management failed to respond to widespread problems including broken doors, a nonfunctioning stove, oppressive heat, and rodents.

On Wednesday, Walsh said that when he meets with representatives of colleges, he will insist that they provide the addresses of students living off campus. That will help the city to more readily detect cases of overcrowding, defined by a zoning rule as more than four full-time undergraduates sharing a single apartment or house. If the colleges do not comply, Walsh said, he will take additional steps.

"If the colleges refuse to do it, I'm looking possibly to take legislative action to make it happen" through a city ordinance, he said. "I have that ability."

The series found that some landlords in college neighborhoods commonly flout the no-more-than-four zoning rule. Student tenants are often complicit because they cannot afford the rent without sharing it with a larger group.

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FRIDAY, MAY 9, 2014 THE TECH 9

Senior House to get an RLAD by the fall

Residents of dormitory say they were not consulted before decision

RLAD, from Page 1

DSL to push for Senior House to get an RLAD."

A common sentiment among students is that an RLAD is unnecessary for (and would even be detrimental to) Senior House.

"I think MIT could spend money on other things rather than a position that is already filled by other members of the house such as housemasters and GRTs," said Senior House resident Jasmeet K. Arora '17 in an email.

A common sentiment among students is that an RLAD is unnecessary for Senior House.

According to Rayo's email, Henry J. Humphreys, senior associate dean of Residential Life & Dining, will be holding a town hall-style meeting to answer people's questions. However, the date of the meeting, as well as whether an RLAD has already been selected. is currently unknown. In 2012, former Chancellor Eric Grimson PhD '80 had told The Tech, "There will be student input — for example, when dorms get a new housemaster or

GRT, they participate in the selection process, the same will go for

In a 2013 article in The Tech, Humphreys said that the recruiting period for RLAD positions typically begins in March.

Some students have expressed concern over the timing of the announcement shortly before the end of the academic year.

"I also think it's no coincidence that DSL waited until two weeks before term's end to make the announcement," stated Kononov. "If there is one thing DSL has learned about MIT culture over the years, it is how to attack the student body's weaknesses."

Resident Catherine Yunis '16 said, "I would love to meet with the deans and discuss these changes but in two weeks the semester will be over, and then I will be gone for the summer until September."

According to Kononov, the last time Senior House actively participated in discussions with DSL about RLADs was in early 2013. She emphasized, "At that time, we expected to engage in discussion about alternate solutions that would not involve live-in administrators, but no such discussions took place. Last night's announcement was completely unexpected."

Humphreys had not yet responded for comment at press

Solution to Crossword

COMBINATIONLOCK

ONE LEXUS CAD MILDLY NOHELP

SSES OGRES SAD
BESTREW CINQ
BLUECHIPSTOCK
OAT RELAYED

PRY BURLY REBUS SELDOM REDANT

HAVEOVERABARREL ERODE TOWEL

> Solution to Sudoku from page 5

2 3 1 5 8 7 9 4

4 5 3 9 7 2 6 1

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

2 4 6 8 5 3

Chorallaries get funky and sing out their seniors



Molly J. Tracy '16 belts out a tune with the Chorallaries at the "Electro, Sophista, Funky" concert last Friday evening in 10-250

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Solution to Crossword

from page 6														
Α	N	T	S		S	Н	Ε	S		D	Α	T	Ε	D
S	0	R	T		М	Υ	T	Н		I	V	0	R	Υ
Ρ	Α	I	R		I	D	Ε	Α		Ε	Е	R	I	E
S	Н	0	U	L	D	Е	R	Р	Α	D		E	N	D
			T	A	G		N	E	R	D				
K	G	В		В	Ε	T	Α		R	0	W	D	Y	
-	Н	0	P			E	L	В	o	W	R	0	0	М
C	Α	N	T	S	Ε	Е		0	W	N	Е	D	υ	P
K	N	E	E	P	Α	N	T	S			N	0	R	Α
	Α	S	S	E	T		I	N	F	0		S	Е	Α
				C	ı	T	Ε		ı	D	O			
М	0	В		K	N	U	C	K	L	E	В	Α	L	L
Е	М	Α	Ī	L		F	L	O	Ε		Α	L	0	Ε
S	T	N	C	E		T	T	N	T		М	0	0	Ν
s	Т	F	E	D		S	Р	A	s		A	Т	М	S

Solution to Techdoku

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

Solution to Techdoku II

nom page o										
1	4	3	5	6	2					
5	2	1	3	4	6					
3	6	5	1	2	4					
2	5	4	6	1	3					
6	3	2	4	5	1					
4	1	6	2	3	5					

Solution to Sudoku II

5 3 8 4 7 9 6 1 2

from page 6

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

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10 THE TECH FRIDAY, MAY 9, 2014

Fossil Free calls on MIT to divest from fossil fuel



Last Friday, members of Fossil Free MIT put up blue caution tape around campus, showing where the water level will be during a storm surge like the one caused by Hurricane Sandy, after the projected 2050 sea level rise. The group did so to correspond to the sixth MIT Sustainability Summit over the weekend, with the theme of "Coastal Cities - Sustainable Future".

MIT launches new research initiative

Program to fund interdisciplinary research related to environment

Initiative, from Page 1

by MIT according to the release, but after that it is expected to be "self-sustaining."

In an email to The Tech, MIT Vice President for Research Maria T. Zuber said, "For the environment, while we may anticipate some industry interest, we expect a broader funding portfolio that also includes foundations, private individuals and government. The very generous gift by Mr. Jameel to support research on water and food announced earlier this week is a great example of the kind of support we hope to attract."

The new initiative will be led by **Atmospheric** Chemistry and **Climate Science Professor Susan** Solomon.

According to the release, the initial call for proposals for interdisciplinary research will go out in the fall. When asked whether the initiative would provide funding for any existing research, Zuber said, "MIT undertakes initiatives to inspire genuinely new ideas and the initiative on the environment will be no exception." She also emphasized the interdisciplinary nature of the new initiative.

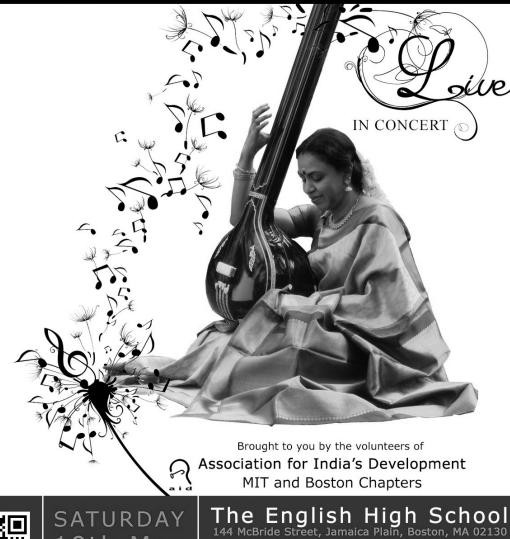
According to Zuber, "There are already many faculty either already working on or interested in the initiative and so we have no plans to bring on new faculty researchers." She said, however, that the next director after Solomon could be an "internal or external appointment."

Regarding faculty involvement, Zuber said, "various studies of different aspects of the environment that have been undertaken over the past decade identified over a hundred faculty who could potentially be interested, and that is what we found by knocking on doors and circulating some email. With today's announcement to the community by our President I have little doubt that more will emerge."

According to Reif's email, Provost Martin A. Schmidt PhD '88, Zuber, and MITEI Director Robert C. Armstrong will "launch a campus-wide conversation on the challenge of climate change." In his email Reif said, "Built around a range of provocative speakers, such an open conversation will sharpen our thinking and help us choose the best path to real progress against climate change."

Of the program's relation to undergraduate education, Zuber said, "[T]here has been a census of possibly relevant courses that already exist and there are many. The challenge will be to develop a coherent and modern curriculum, which could logically consist of some existing courses and some that have yet to be developed."





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Austin, Course 8 Derek, Course 1 Chris, Course 16 Sarah, Course 2 Ian, Course 9 Anne, Course 17 Leon, Course 18 Annia, Course **3** Joyce, Course **10** Sara, Course 11 Dohyun, Course 4 Jack, Course 19 Vince, Course 12 Stan, Course 20 Will, Course **5** Deborah, Course 6 Anthony, Course 14 Stephen, 21/CMS Kali, Course 7 Maggie, Course 15 Keith, Course 22

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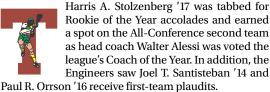
Men's lacrosse earns awards

First rookie of the year win since 1999, third win overall

By Mindy Brauer

DAPER STAFF

The MIT men's lacrosse team received four post-season awards as announced by the New England Women's and Men's Athletic Conference (NEWMAC) on Tuesday.



The program's first conference Rookie of the Year since 1999 and third overall, Stolzenberg led the NEW-MAC in man-up goals (12), was second in points (64) and goals (39), and third in assists (25). A Pilgrim League Second-Team All-Conference pick last year, Orrson powered the midfield with 21 goals and 14 assists for 35 points. His assists total was eighth in the league while placing 10th in points and 14th in goals. Santisteban, also a Pilgrim League All-Conference Second Team selection last season, was eighth in the NEWMAC in caused turnovers with 17 while collecting 36 ground-balls as a close defenseman. His caused turnover total was the second-best in program history, and he will graduate tied for fourth in career caused turnovers with 36.

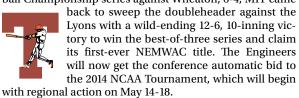
Alessi, who concluded his 40th season at the helm, was named Coach of the Year for the ninth time in his career. He guided MIT to an overall record of 9-8 and a 4-2 mark in the NEWMAC. The Engineers earned the No. 3 seed for the postseason conference tournament, their highest placement in six consecutive appearances, before bowing to runner-up Babson College in the semifinals.

MIT baseball team clinches bid for the 2014 NCAA Tournament

Engineers take their first-ever NEWMAC title with win

By Phil Hess

After winning the first game of the 2014 New England Women's and Men's Athletic Conference (NEWMAC) Baseball Championship series against Wheaton, 6-4, MIT came



In game one MIT (22-13) jumped on top early, scoring three times in the first. The Engineers put runners on the corners with one out for Hayden K. Cornwell '15, who doubled in the first run. Nathaniel H. Rodman '16 brought in another run with an RBI groundout before Parker A. Tew '15 singled in the final run of the inning.

Another three-run inning, this time in the fourth, proved to be the winning margin for the Engineers. An error and a hit batter put two aboard for John M. Drago '17, who plated both runners with a double to right center. Creed J. Mangrum '14 followed with an RBI single to make it 6-0.

Max J. Ockner '14 started for the Engineers and blanked Wheaton (27-16-1) over the first six innings giving up just a pair of hits. In the seventh the Lyons broke through with their first run, getting back-to-back doubles to start the inning from Mike Bisceglia and Justin Silvestro. Wheaton went on to cut the lead in half, scoring another run on a balk and adding an RBI single by Tyler Contillo.

MIT's bullpen then held off the Lyons the rest of the way, limiting them to just one run in the eighth on a Kevin Foley RBI single. Michael A. Wymer '16 tossed the ninth for MIT and picked up the save, giving up a pair of infield singles before recording the final two outs.

In game two Wheaton scored single runs in the first, sec-

ond and fourth innings to take an early 3-0 lead, but MIT came back with three in the fifth to tie it, highlighted by RBI singles by Drago and Mangrum. The Lyons retook the lead in the seventh when a double by Apolinar De La Cruz with a runner on first resulted in the lead runner scoring when the hit was misplayed in the outfield.

It stayed that way until the ninth when the Engineers saw their leadoff hitter reach after being hit by a pitch. Wheaton's closer, Ryan Grant, then retired a pair of hitters around a walk to Mangrum before Cornwell doubled to tie things up at 4-4. After Rodman was intentionally walked, Tew singled to center to bring home a pair of runs and put the Engineers on top 6-4.

Wheaton had an answer in the bottom of the ninth when De La Cruz smacked a two-run shot to right to send the game into extra innings.

MIT came right back in the tenth, loading the bases with one down on a pair of singles and a walk. A hit batter broke the tie before Cornwell brought home another with an infield single. After Rodman drew a walk to make it 9-6, Tew put the finishing touches on the game, clearing the bases with a triple to left center.

Robert J. Bertucci '14 then came out of the bullpen to close it out for the Engineers. Wheaton threatened by putting two on with two down on a hit batter and a single, but Bertucci got the next hitter to pop up to first to end it.

Ockner was named the tournament's Most Outstanding Player after winning both of his starts in the tournament. He defeated Springfield last week in a complete game, four hitter and struck out 13 before going six innings today, giving up six hits in six innings and allowing three runs to earn the victory.

MIT still has two games left on the regular season schedule, with the Engineers playing at Suffolk University on Monday evening at 7:00 p.m. in the first of those. MIT will learn where it sits in the NCAA bracket when the field is announced on May 11.

