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The Tech

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WEATHER, p. 2
TUE: 79°F | 62°F T-storms
WED: 81°F | 60°F Sunny
THU: 74°F | 53°F Mostly sunny

Volume 133, Number 34

Tuesday, September 3, 2013

E52 renovations to finish in 2016

The construction on old Sloan will affect surrounding traffic

By Austin Hess
NEWS EDITOR

Renovations begin this week for E52, the original Sloan Building. The structure, built in 1938, is undergoing interior and exterior upgrades expected to be completed in early 2016.

According to the MIT Capital Projects website, "Building E52 has not been significantly upgraded over time." The site indicates the lower floors will be used for student-related Sloan School administration, the fourth and fifth floors will be for the Economics Department, and there will be a glass-enclosed addition to the building to create sixth and seventh floors for meetings and conferences. The trees along Memorial Drive will be replaced, and other landscaping changes will occur. The people displaced by the renovation have moved to Building E17.

The renovations will have an impact on automobile and pedestrian traffic surrounding E52 beginning this week. In an email to the MIT community, Chief of Police John DiFava wrote, "On Tuesday, September 3, Ames Street will become two way from Memorial Drive all the way to Main Street. Re-stripping of the lanes is scheduled to take place on Tuesday and the pattern change will remain in effect through the end of construction. Beginning on Monday, September 23, the section of Wadsworth Street from Memorial Drive to Amherst Street will be closed to traffic."

According to the MIT facilities website, Wadsworth Street will reopen as a one-way street in February 2014, and return to a two-way configuration after the renovation ends. A section of Ames Street will return to one-

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JESSICA L. WASS—THE TECH

Building E52 is set to undergo a renovation scheduled to be completed in 2016. Traffic patterns on the surrounding streets will be affected starting with the closure of Wadsworth Street later this month and the conversion of Ames St. into a two-way street all the way through to Memorial Drive.

Somerville SafeRide shuttle pilot program implemented

Simmons shuttle stops also relocated to front of dorm

By William Navarre

MIT's shuttle programs are undergoing several changes in the upcoming semester.

In response to a proposal made in May by the Graduate Student Council (GSC) Transportation Subcommittee, a pilot program for a new Somerville SafeRide shuttle route will run from September to December. The new route is designed to meet the transportation needs of graduate students living off-campus by connecting Imman Square, Union Square, and East Cambridge to Main Campus. The shuttle will run during normal MIT Saferide hours of 6 p.m.–2:30 a.m. Sundays through Wednesdays and 6 p.m.–2:30 a.m. Thursdays through Saturdays. The pilot program's continuation is contingent on ridership numbers, according to the announcement in the Aug. 26 GSC Anno.

Additionally, as of Aug. 30, the Tech Shuttle and SafeRide stops at Simmons Hall were relocated to the east side of the building from the west side, making them closer

Shuttles, Page 8

JESSICA L. WASS—THE TECH

DanceTroupe was one of many student performance groups to showcase their talents at Friday's Activities Midway. All ASA recognized groups are invited to the Midway to give incoming freshmen a look at activities on campus.

CMS and Writing join forces

Comparative Media Studies (CMS) and Writing (21W), formerly two separate majors, are now under the CMS/W program. The two majors will remain essentially the same from an academic point of view — their undergraduate and graduate programs will still remain separate — but the new program aims to encourage students in both majors to take classes in the other.

James G. Paradis commented that There was much overlap between the two majors in addition to the many cross-listed classes that already exist, according to CMS/W section head and professor James G. Paradis. "Media studies is concerned with journalistic types of things, and the writing program always taught journalism, so we just always had a lot in common," said Paradis. Such commonalities will be the strength of the new program, which will benefit from containing faculty from what were previously two different majors. "That's the main reason," said Paradis, "just to get together and share some of the areas of interest." He also commented on the increased coherence of the curriculum, since the faculty will now be able to plan out both majors together.

In the 2012–2013 year, CMS had 15 students total, while Writing had three (all juniors at the time), but neither major is absorbing the other, Paradis said — "This makes both majors much more interesting."

—Bruno B. F. Faviero

IN SHORT

Tomorrow is the first day of Fall classes!

All students must submit Fall registration by Friday, Sept. 6.

A fire was reported in Building 3 on Monday at 11:15 a.m., according to *emergency.mit.edu.* The building was evacuated and no injuries were reported. The fire was extinguished, according to an emergency alert text message.

The application deadline for February SB and Advanced Degrees is this Friday, Sept. 6. Submit your application by then to avoid a $50 late fee.

Deadline for second-term juniors to submit the HASS Concentration Proposal Form and for final-term seniors to submit the HASS Concentration Completion Form is this Friday, Sept. 6, subject to a $50 late fee.

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

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CBS and Time Warner cable end contract dispute

CBS and Time Warner Cable ended their protracted contract dispute Monday evening with the announcement of an agreement that restored CBS and its related channels, like Showtime, to millions of cable subscribers largely in three major cities, New York, Los Angeles and Dallas.

The two sides did not release any specific information on the terms. They had battled for a month over an increase in fees that CBS was seeking for the right to retransmit CBS stations in those cities and some other locations on Time Warner Cable systems. Another key issue was whether CBS would retain some digital rights that it wants to sell to Web-based distributors like Netflix and Amazon.

In a memo to the CBS staff, the corporation president, Leslie Moonves, said, "The final agreements with Time Warner Cable deliver to us all the value and terms that we sought in these discussions. We are receiving fair compensation for CBS content and we also have the ability to monetize our content going forward on all the new, developing platforms that are right now transforming the way people watch television."

—Bill Carter, The New York Times

Rupee continues decline on weakness in Indian economy

MUMBAI, India — The Indian rupee began slipping lower in currency markets again Monday after a two-day respite, as further signs emerged of broad troubles in the Indian economy.

An HSBC survey of purchasing managers at manufacturers across India, released Monday, showed them to be their gloomiest since March 2009, at the bottom of the global economic downturn. Businesses across the country are bracing for a sharp increase in the regulated price of diesel fuel, as the rupee?s steep drop in August has driven up the Indian cost of crude oil, priced in dollars and almost entirely imported.

The rupee was down another 0.5 percent against the dollar, to 66.08 rupees to the dollar, bringing its decline since early May to almost 20 percent.

Currency traders said that they perceived hints of modest intervention to cushion the decline by the Reserve Bank of India, the country's central bank, which acts through state-controlled commercial banks when it does intervene so as to camouflage its activity.

—Keith Bradsher, The New York Times

Nyad completes Cuba-to-Florida swim

MIAMI — This time, nature tipped its hat, and Diana Nyad finally conquered the 110-mile passage that had bedeviled her for 35 years.

Sharks steered clear, currents were friendly, and storms took most of the Labor Day weekend off.

The 64-year-old endurance swimmer emerged dazed and sunburned from the surf on Smathers Beach in Key West, Fla., just before 2 p.m. on Monday after nearly 53 hours in the ocean, a two-day, two-night swim from her starting point in Havana. She had survived the treacherous Florida Straits, a notorious 110-mile course brimming with sharks, jellyfish, squalls and an unpredictable Gulf Stream. And she became the first person to do so unaided by the protection of a shark cage.

It was her fifth attempt, coming after four years of grueling training, precision planning and single-minded determination. Her face scorched and puffy from so many hours in the salt water, she leaned on one of her friends and said from the beach:

"I have three messages. One is we should never, ever give up. Two is you never are too old to chase your dreams. Three is it looks like a solitary sport, but it takes a team."

—Lizette Alvarez, The New York Times

Syrians thrown off balance by hesitation in Washington

By Anne Barnard
THE NEW YORK TIMES

BEIRUT — Two days after President Barack Obama shocked Syrians by delaying expected American missile strikes, the country remains off balance, with the military still bracing, the rebels still hoping to capitalize on the confusion, civilians increasingly fleeing across the borders and everyone uncertain whether the attack has been called off for good.

Businesses were open and shops busy in government-held areas around the country on Monday, residents say, but not all government troops had moved out of the schools and other civilian areas they had moved into ahead of the attacks that were expected Saturday. Anxiety and anticipation from that day lingered.

The fighting, which was in a noticeable lull on Saturday, appeared to be gearing back up. Antigovernment activists and state news media reported clashes across the country on Monday, while António Guterres, the United Nations high commissioner for refugees, said in an interview in Geneva on Monday that another rush of Syrians across the borders meant that roughly a third of the country's population had now been displaced; he estimated that the number of Syrians seeking refuge in neighboring countries was approaching 2 million, with some 4.5 million being driven from their homes in Syria.

Both the government and the armed opposition have moved to capitalize on Obama's decision to wait for congressional approval for a strike. The government has portrayed President Bashar Assad as a hero for facing down the Americans, and his supporters have circulated jokes on social media mocking Obama; one campaign features high-quality videos of Syrians old and young using a vulgar phrase to tell him, essentially, to get lost. The military resumed heavy aerial bombardment of East Ghouta, the sprawling hinterland of Damascus that bore the brunt of the chemical attacks that American officials have blamed on Assad's government, which denies responsibility.

For their part, rebels claim to have taken new ground in the Qalamoun area north of Damascus and declare they will push forward while some of the government's personnel and weapons remain dispersed to avoid being targeted.

The state news agency, SANA, said the military had killed foreign fighters as they tried to infiltrate areas closer to the capital. Opposition figures have seized the moment to argue for a more comprehensive strike, backed by increased aid to their forces, to try to shift the balance in the conflict, which began three and a half years ago with peaceful protests but have devolved into civil war after bloody government crackdowns.

It is unclear how much the government's precautionary troop movements change the tactical picture, said Kamel Wazne, a political analyst who runs the Center for American Strategic Studies in Beirut, for the same reason that Obama's proposal for missile strikes without involving American ground troops may make little difference to the dynamic on the battlefield.

Brazil angered over report that NSA spied on president

By Simon Romero and Randal C. Archibold
THE NEW YORK TIMES

RIO DE JANEIRO — Brazil's government summoned the U.S. ambassador Monday to respond to new revelations of U.S. surveillance of President Dilma Rousseff and her top aides, complicating relations between the countries ahead of Rousseff's state visit to Washington next month.

While senior Brazilian officials expressed indignation over the revelations of spying by the National Security Agency on both Rousseff and Mexico's president, Enrique Peña Nieto — reported Sunday on the Globo television network — they stopped short of saying whether Rousseff's visit was at risk of being called off.

"This would be an unacceptable violation to our sovereignty, involving our head of state," José Eduardo Cardozo, Brazil's justice minister, said in an interview. Cardozo said Brazil had requested an explanation from Washington regarding the revelations, emphasizing that he had proposed in meetings with U.S. officials a legal accord regulating U.S. intelligence activities in Brazil.

"Something like this would clearly not fit within such an agreement," Cardozo said.

The report, based on documents provided by the fugitive NSA contractor Edward J. Snowden to Glenn Greenwald, a U.S. journalist living in Brazil, described how the NSA used different computer programs to filter through communications and gain access to specific emails, telephone calls and text messages of Rousseff's top aides.

In the case of Mexico's leader, the Globo report described how the NSA obtained a text message from Peña Nieto himself in 2012, while he was a candidate for the presidency, which referred to an appointment he planned to make to his staff if elected.

Mexico's response to the revelations was relatively muted compared with Brazil's. Mexico's Foreign Ministry said in a statement that it was asking the United States in a diplomatic note for an "exhaustive investigation" into the matter, while also summoning the U.S. ambassador to emphasize the government's position.

Washington has been seeking to enhance its ties with Brazil, Latin America's largest country, by reaching out to Rousseff. Her government was already angered by previous revelations that Brazil ranked among the NSA's most spied-upon countries.

While Brazil maintains generally warm ties with the United States, resentment lingers over the repressive eavesdropping during its military dictatorship from 1964 to 1985 and the support of the United States for the coup that brought the military to power.

WEATHER

Sunshine expected for the start of classes

By Vince Agard
STAFF METEOROLOGIST

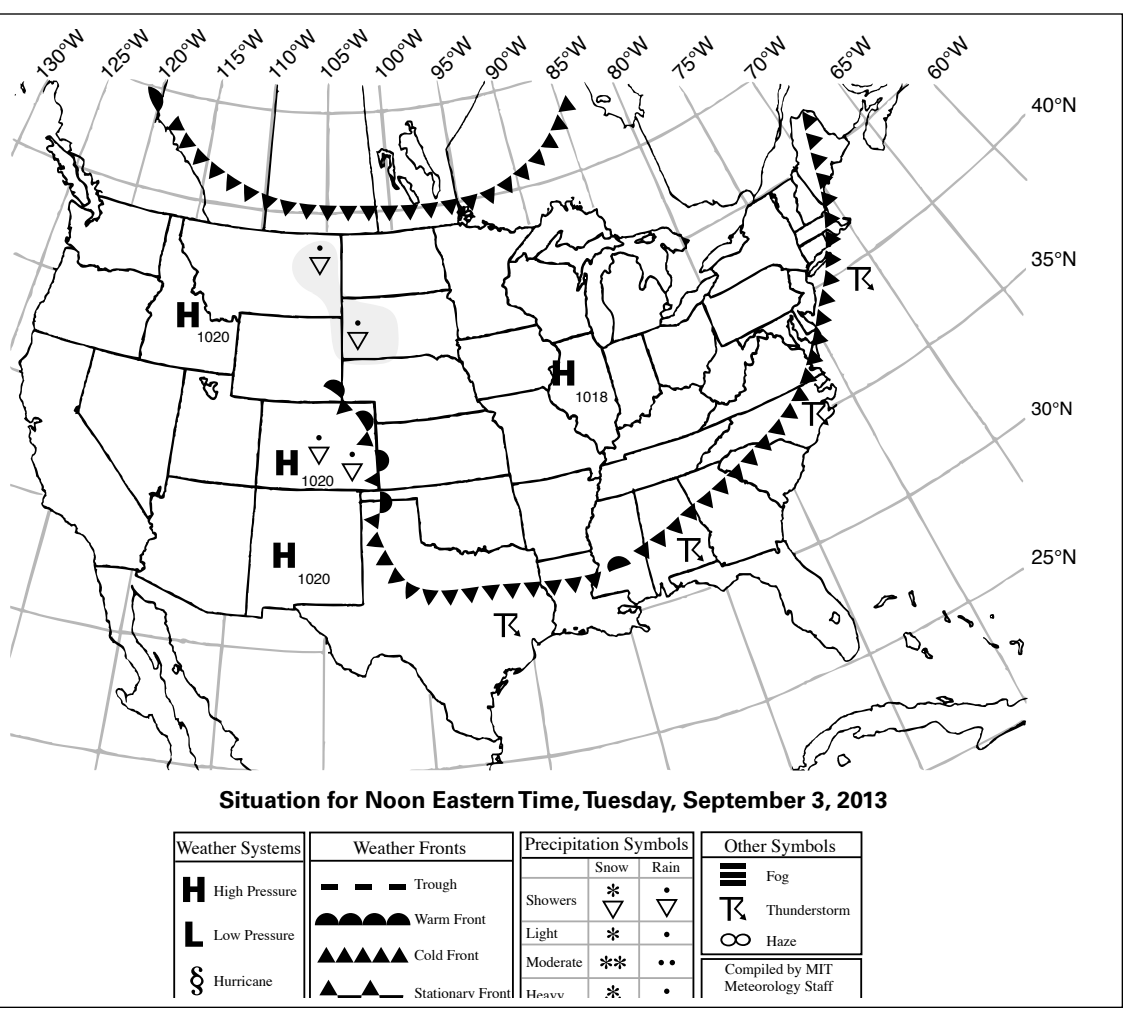
This weekend's stretch of humid, stormy weather will give way to a more settled pattern just in time for the start of the fall semester on Wednesday.

However, the Institute will have to endure one more day of occasional showers before the start of classes as a cold front passes through our area today. Instability associated with the frontal boundary will create the chance of showers and thunderstorms throughout the day and evening.

Starting tomorrow, though, the weather will be noticeably cooler and drier as the influence of a high pressure system is felt. Temperatures can be expected to stay below 80°F for the latter part of the week, with sunshine abated only by the occasional shower or thunderstorm associated with a possible backdoor cold front.

Extended Forecast

Today: Partly sunny with showers and thunderstorms. High 79°F (26°C). Winds W at 5–10 mph.
Tonight: Chance of thunderstorms. Low 62°F (17°C). Winds W at 5–10 mph.
Tomorrow: Sunny. High 81°F (27°C). Winds W at 10–15 mph.
Thursday: Mostly sunny, highs in the mid 70s°F.
Friday: Sunny with highs near 70°F (21°C).



Debate revives Merkel's rival as credible challenger

By Alison Smale
THE NEW YORK TIMES

BERLIN — Chancellor Angela Merkel and her Social Democratic challenger, Peer Steinbrück, returned to the campaign trail on Monday, with neither triumphant after their sole television debate, a mostly decorous 90-minute exchange that restored Steinbrück as a credible candidate but yielded a rhetorical draw.

Perhaps reflecting the flickering interest stirred by the largely predictable positions taken by both leaders, commentary focused on what the Berlin tabloid B.Z. called the two winners in the TV duel: Raab and Merkel's necklace.

The reference was first to Stefan Raab, a television entertainer whose inclusion in the normally serious lineup of four moderators at the debate on Sunday night was much remarked and delivered the liveliest exchange of the evening. Raab pushed Steinbrück hard for guidance for those Germans — and polls suggest their number is considerable — who want to see a "grand coalition" of the Social Democrats with Merkel's center-right Christian Democrats after the Sept. 22 elections.

Steinbrück, 66, who served as finance minister in Merkel's first government, a grand coalition from 2005 to 2009, has already said he will not head up the Social Democrats in such a Cabinet now. Flustered, he eventually told Raab that voters should go with the center-left.

For her part, Merkel, 59, has carefully ducked controversy so far on the campaign trail, even over the allegations that U.S. intelligence spied on the communications of millions of Germans. And until the debate, she had studiously ignored Steinbrück by not mentioning his name.

So perhaps the most overt excitement she garnered on Sunday was for her necklace, consisting of long beads of black, red and gold, the colors of the German flag.

In the European mold of politicians who hone their skills and policy knowledge over decades, Steinbrück, a Social Democrat for 44 years and a former governor of Germany's largest state, and Merkel, in politics since 1990 and now seeking a third four-year term as chancellor, found support in their own camps on Monday.

For Jakob Augstein, a Merkel critic who writes a column for Der Spiegel, Steinbrück, who stumbled early after his nomination last autumn over disclosures that he had received large fees for lectures and writing, showed that "he can do it."

"On Sunday," Augstein wrote in an online commentary, "we saw a tired chancellor who looked somewhat uninterested."

By contrast, he said, the Social Democrat was "a lively challenger, eager to attack."

Reflecting the maxim that all politics is local, it took more than an hour before the candidates discussed international issues like the allegations of U.S. spying or the Syrian government's possible use of chemical weapons against thousands of civilians.

Merkel's government has ruled out participation in any military response.

Chill hangs over Obama's journey to summit in Russia

By Peter Baker
THE NEW YORK TIMES

WASHINGTON — Just days before Vladimir Putin reassumed the presidency of Russia last year, President Barack Obama dispatched his national security adviser to Moscow. Obama had made considerable progress with Dmitry A. Medvedev, the caretaker president, and wanted to preserve the momentum.

Any hopes of that, however, were quickly dashed when Putin sat down with the visiting American adviser, Tom Donilon, at the lavish presidential residence outside Moscow. Rather than talk of cooperation, Putin opened the meeting with a sharp challenge underscoring his deep suspicion of American ambitions:

"When," he asked pointedly, "are you going to start bombing Syria?"

At the time, Obama had no plans for military involvement in the civil war raging in the heart of the Middle East, but Putin did not believe that. In Putin's view, the United States wanted only to meddle in places where it had no business, fomenting revolutions to install governments friendly to Washington.

The meeting 16 months ago set the stage for a tense new chapter in Russian-American relations, one that will play out publicly this week when Obama travels to St. Petersburg for a Group of 20 summit meeting hosted by Putin.

While Obama had no intention of bombing Syria last year, he announced Saturday that he favors military action against Syrian forces, not to depose the government of Bashar Assad, a Russian ally, but in retaliation for gassing its own citizens — an assertion Putin has denounced as "utter nonsense" to justify American intervention.

While it was Kremlin's decision last month to shelter Edward J. Snowden, the National Security Agency leaker, that finally prompted Obama to call off a separate one-on-one meeting he had scheduled with Putin while in Russia, the core of the schism is not so much that case as the radically different worldviews revealed by the Syria dispute. Where Obama feels compelled to take action to curb the use of unconventional weapons, Putin sees American imperialism at work again.

The story of the administration's "reset" policy toward Russia is a case study in how the heady idealism of Obama's first term has given way to the disillusionment of his second. Critics say he was naive to think he could really make common cause with Moscow. Aides say it was better to try than not, and it did yield tangible successes in arms control, trade and military cooperation before souring.

"There's this cycle of initial enthusiasm and hope that gives way to reality," said Robert M. Gates, Obama's first defense secretary.

McCain urges lawmakers to back Obama's plan for Syria

By Jackie Calmes, Michael R. Gordon, and Eric Schmitt
THE NEW YORK TIMES

WASHINGTON — The White House's aggressive push for congressional approval of an attack on Syria appeared to have won the tentative support of one of President Barack Obama's most hawkish Republican critics, Sen. John McCain of Arizona, who said Monday that he supported a "limited" strike if the president did more to arm the Syrian opposition.

In an hourlong meeting at the White House, McCain said Obama gave general support to doing more for the Syrian rebels, although no specifics were discussed. In the same conversation, which also included Sen. Lindsey Graham, the South Carolina Republican, officials said that Obama indicated that a covert effort by the United States to train the Syrian rebels was beginning to yield results: the first 50-man cell of fighters, which have been trained by the CIA, was beginning to sneak into Syria.

There appeared to be broad agreement with the president, McCain and Graham said, that any attack on Syria should be to "degrade" the Syrian government's delivery systems - which could include aircraft, artillery and the kind of rockets that the Obama administration says were used by the forces of President Bashar Assad to carry out an Aug. 21 sarin attack in the Damascus suburbs that killed more than 1,400 people. The senators said they plan to meet with Susan E. Rice, Obama's national security adviser, to discuss the strategy in greater depth.

"It is all in the details, but I left the meeting feeling better than I felt before about what happens the day after and that the purpose of the attack is going to be a little more robust than I thought," Graham said in an interview.

But McCain said in an interview that the Obama did not say specifically what weapons might be provided to the opposition or discuss in detail what Syrian targets might be attacked.

"There was no concrete agreement, 'OK, we got a deal,'" McCain said. "Like a lot of things, the devil is in the details." In remarks to reporters outside the West Wing, McCain called the meeting "encouraging," urged lawmakers to support Obama in his plan for military action in Syria and said a no vote in Congress would be "catastrophic" for the United States and its credibility in the world. McCain said he believed after his conversation with the president that any strikes would be "very serious" and not "cosmetic."

Although the words from McCain and Graham were a positive development for Obama and a critical part of the administration's lobbying blitz on Syria on Monday, the White House still faces a tough fight in Congress.

Fear of slowing growth as summers' odds rise

WASHINGTON — The spreading expectation that President Barack Obama will name Lawrence H. Summers to lead the Federal Reserve Board appears to be working against the central bank's efforts to stimulate the economy.

The jitters even have some analysts betting that a Summers nomination could lead to slower economic growth, less job creation and higher interest rates than if the president named Janet L. Yellen, the Fed's vice chairwoman.

Businesses raising money and people buying homes and cars all have faced higher interest rates in recent months as the Fed?s campaign to suppress borrowing costs has faltered. The rise in rates reflects optimism that the economy is gaining strength, and an expectation that the Fed will begin to pull back later this year. But a wide range of financial analysts also see evidence of a Summers effect.

Many investors expected that Yellen would be nominated to replace Ben S. Bernanke as head of the central bank, a choice that would have sent a clear message of continuity. Instead, investors are now trying to anticipate how Summers might change the Fed.

—Binyamin Appelbaum, The New York Times

South Korea pledges aid to the north

SEOUL, South Korea — South Korea promised $8.4 million worth of aid to North Korea on Monday, a conciliatory gesture that follows recent steps toward easing inter-Korean tensions and reviving economic and humanitarian cooperation.

The South Korean government will provide $6.3 million to help finance the World Health Organization's efforts to improve medical service for malnourished infants and children in North Korea, the Unification Ministry of South Korea said in a statement. Separately, 12 South Korean private relief groups will be allowed to send a total of $2.1 million worth of medical supplies, baby formula, vitamins, soy milk, stationery and shoes for North Korean children.

The developments follow the two Koreas' agreement last month to restart a program that reunites family members who were separated by the Korean War six decades ago. The next reunions are scheduled to begin Sept. 25.

—Choe Sang-Hun, The New York Times

Still critical, Mandela ends stay in hospital

JOHANNESBURG — Nelson Mandela, the former president, was discharged from a hospital on Sunday after spending 12 weeks there, the South African government said, adding that the ailing anti-apartheid leader remained in precarious health.

"Madiba's condition remains critical and is at times unstable," President Jacob Zuma said in a statement, referring to Mandela by his clan name. "Nevertheless, his team of doctors are convinced that he will receive the same level of intensive care at his Houghton home that he received in Pretoria. His home has been reconfigured to allow him to receive intensive care there."

Mandela, who turned 95 in July, was admitted to a hospital in Pretoria in June to be treated for the recurrence of a lung infection. His condition has ranged from serious to critical, Zuma said, and occasionally doctors have had to use "medical interventions" to stabilize him, the government has said in previous statements.

The latest statement is likely to fuel speculation that Mandela is nearing the end of his life. His family has said that he would prefer to be at home, and the former president has said that he hopes to die in Qunu, the village in the Eastern Cape province where he grew up.

—Lydia Polgreen, The New York Times

Drug agents use vast phone trove eclipsing NSA's

For at least six years, law enforcement officials working on a counternarcotics program have had routine access, using subpoenas, to an enormous AT&T database that contains the records of decades of Americans' phone calls — parallel to but covering a far longer time than the National Security Agency's hotly disputed collection of phone call logs.

The Hemisphere Project, a partnership between federal and local drug officials and AT&T that has not previously been reported, involves an extremely close association between the government and the telecommunications giant.

The government pays AT&T to place its employees in drug-fighting units around the country. Those employees sit alongside Drug Enforcement Administration agents and local detectives and supply them with the phone data from as far back as 1987.

—Scott Shane and Colin Moynihan, The New York Times

6 boys killed while swimming in northern Afghanistan

KABUL, Afghanistan — Six boys were killed on a swimming outing in northern Afghanistan, apparently the victims of fishermen who fired a rocket into a river, according to Afghan officials and relatives of the victims.

The suspects were identified as policemen, and six of them were arrested, including their commander, 1st Lt. Ahmed Farid, officials said.

The episode took place Saturday in the village of Drumbak, in Baghlan province, when policemen on one side of the Larkhab River fired a rocket-propelled grenade into the water. But the round went astray and exploded among a group of children bathing on the opposite shore, about 50 yards away.

Six boys, ages 9 to 14, were killed instantly; two of them were in the shallow water near the riverbank, and the other four were on the bank. Two other children, a boy and a girl, were wounded.

—Rod Nordland, The New York Times

OPINION

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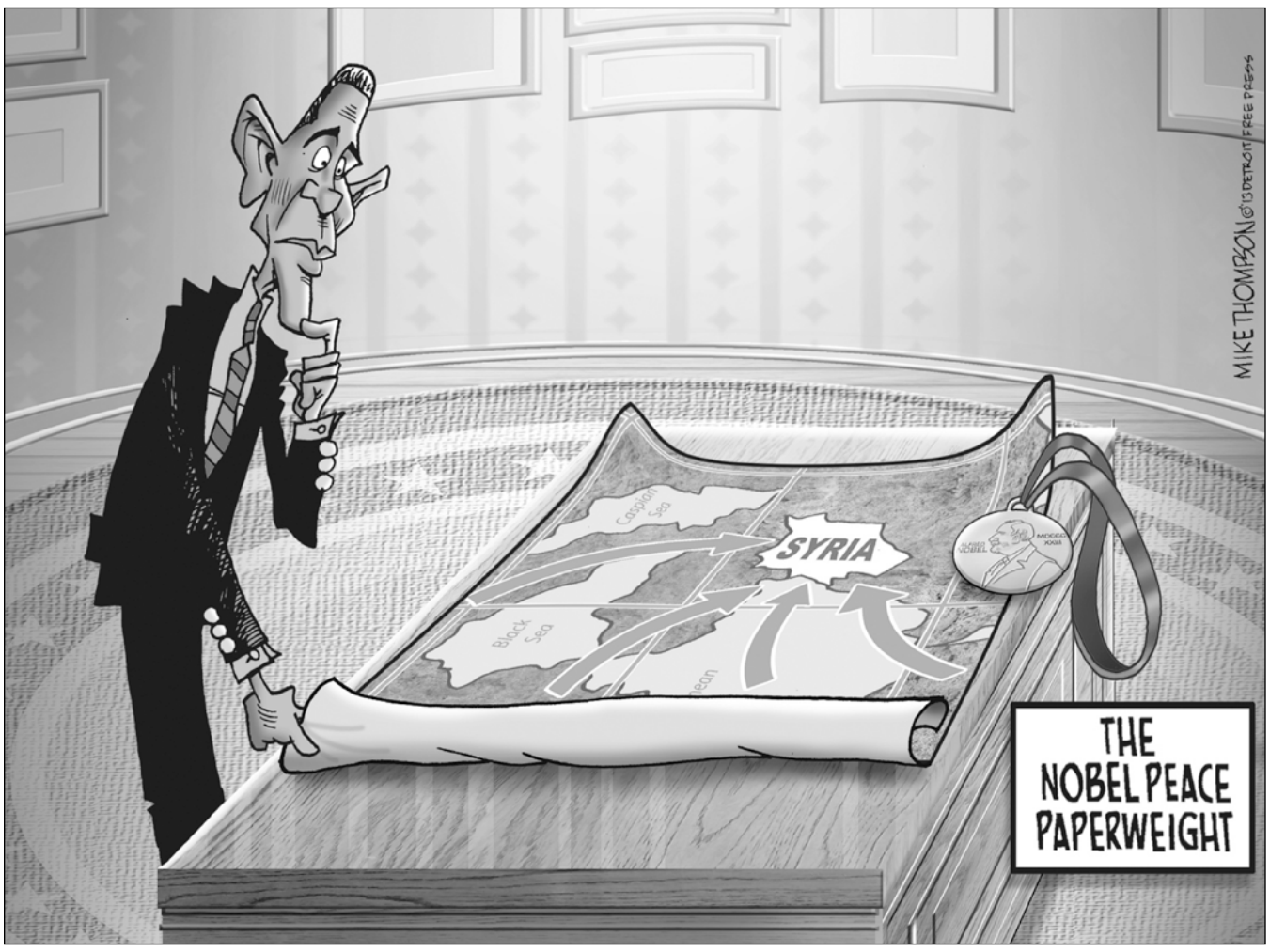

CORRECTIONS

A graphic in last Friday's issue provided incorrect dates for some Steak and Lobster dinners. The WILG and Phi Kappa Sigma dinners are on Tuesday, Sept. 3.

OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Sarah Ritter, Editor in Chief Anne Cai, Managing Editor Ian M. Gorodisher, Executive Editor Deborah Chen, and Opinion Editor Jacob London.

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Letters to the editor, **columns**, and **editorial cartoons** are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to *letters@tech.mit.edu*. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

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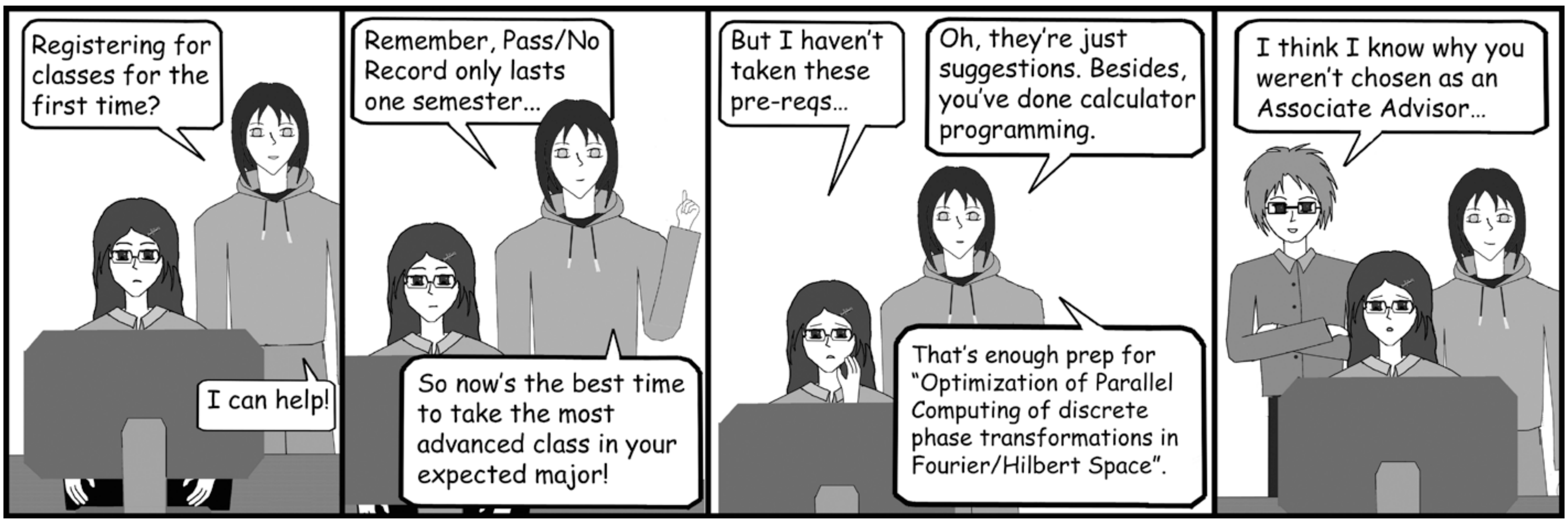
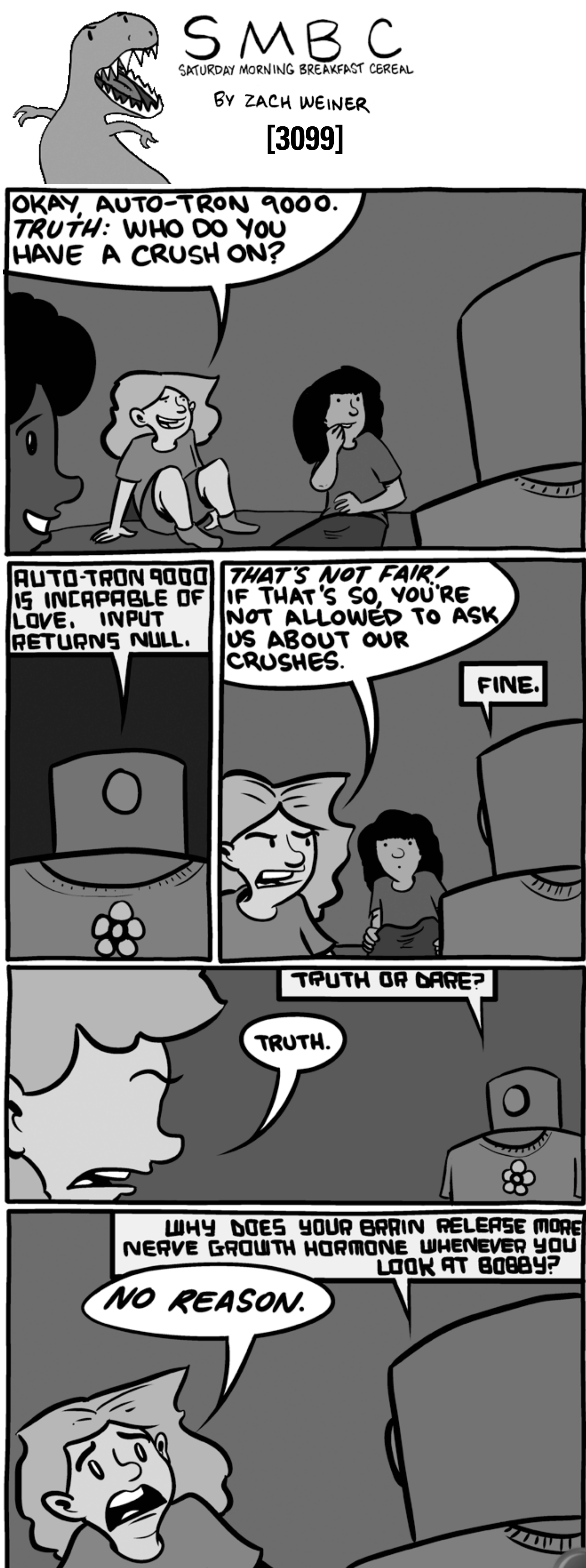
Somewhere on the Search for Meaning... by Letitia Li





PAGE 10

Sudoku

Solution, page 11

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

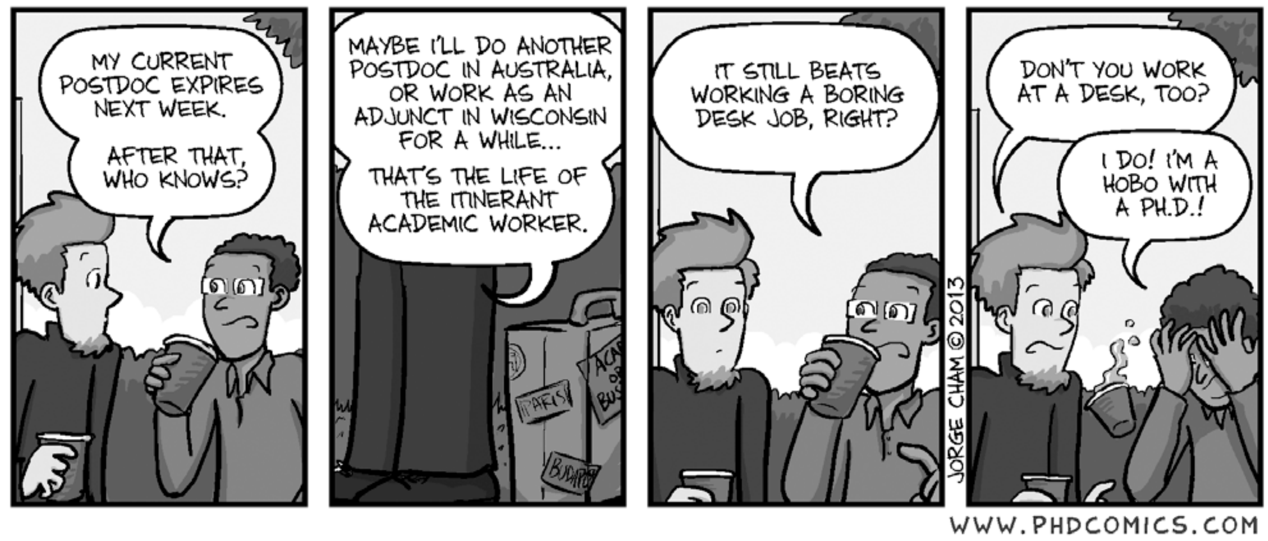
Lonely Techdoku

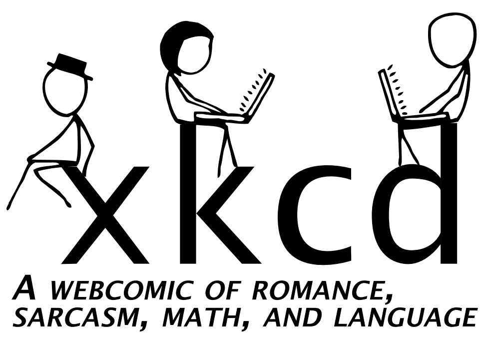
Solution, page 11

120×			60×		
4		90×			
432×					1
	6×		30×		4
60×				8+	
5		2		24×	

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.

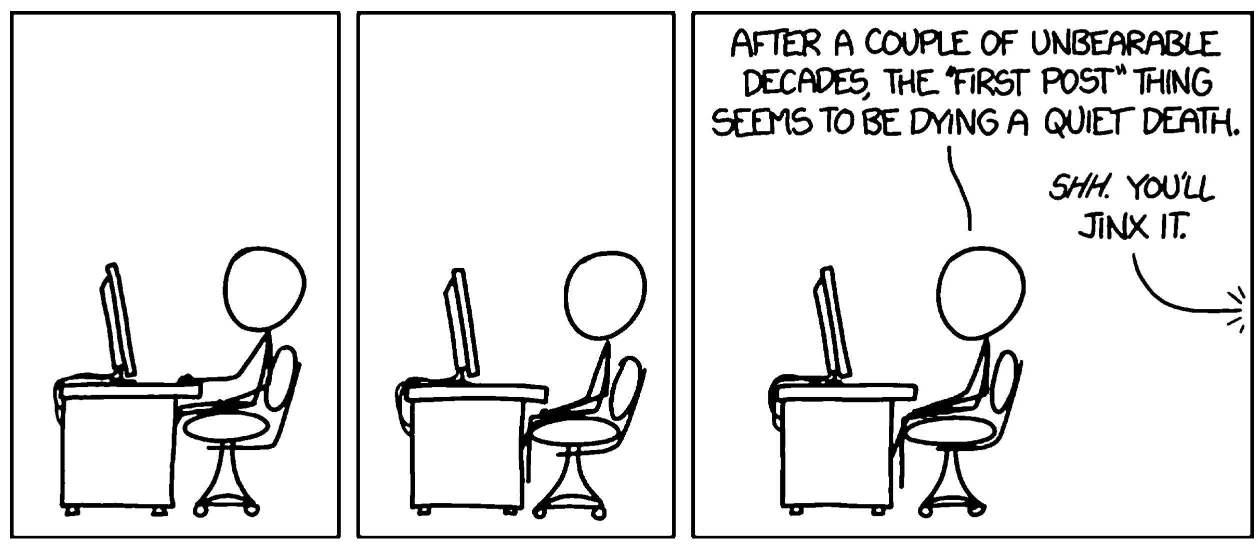
by Jorge Cham





by Randall Munroe

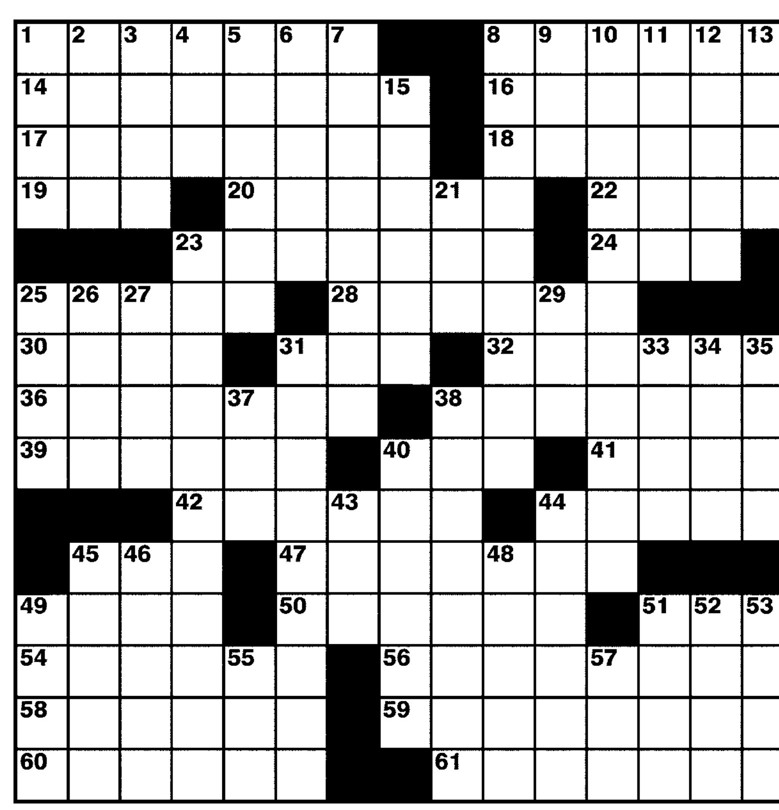
[1258] First



Fortunately, exactly zero other annoying internet behaviors have developed during this time.

Saturday Stumper by Lars G. Doubleday

Solution, page 10

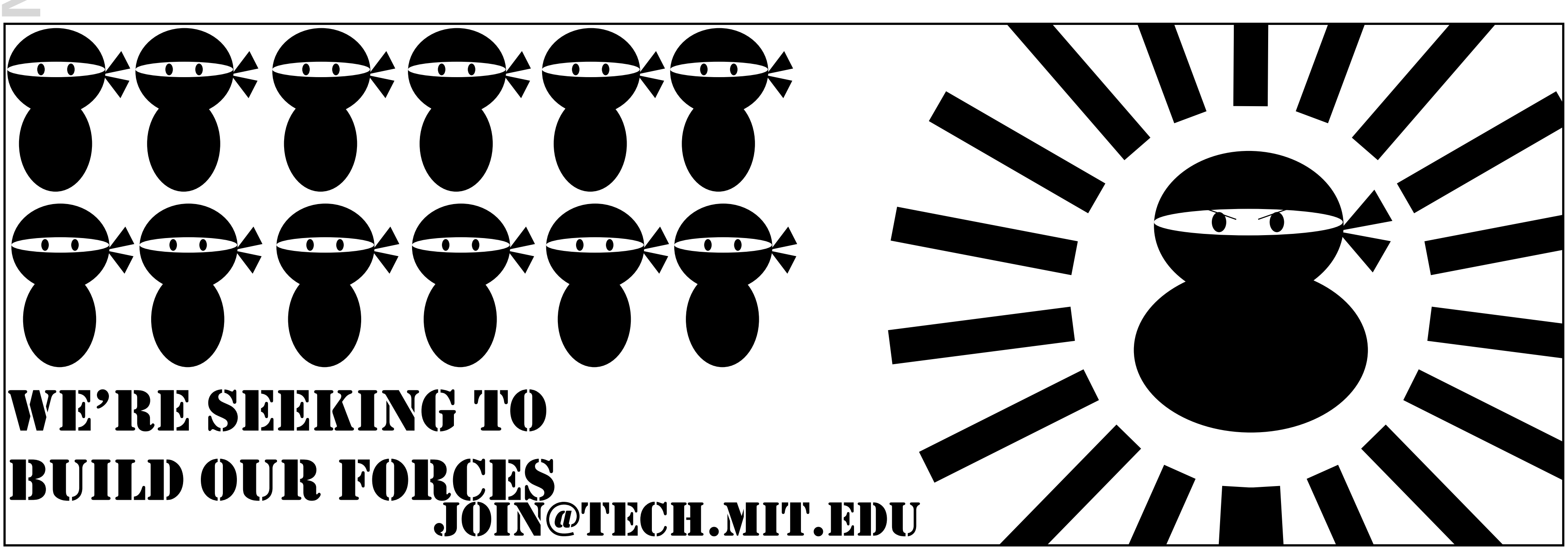


ACROSS

1 Northernmost capital on I-95
8 Exfoliant ingredient
14 Symbols of power
16 The worst of evils, per Helen Keller
17 How some orders are given
18 Florist's supply
19 Stock figure
20 Daughter of Oedipus
22 128-cubic-foot measure
23 Dismissive remark
24 Eliot's middle name
25 Big-screen Robin Hood of '93
28 Rigoletto's occupation
30 Old Fashioned selections
31 Olympic hero
32 Usher
36 Tip source
38 Historic headline of 1898
39 Around
40 Rhubarb
41 Narrator of a Burgess novel
42 Spoke harshly
44 Erenow
45 Sugar substitute
47 Hacker's tool
49 Godfather Part II setting
50 Sulky
51 Alibi problem
54 Floors
56 Smallest country on its continent
58 Supersonic propulsion source
59 Pasta seen in party salads
60 Cutting
61 Highly venomous stinger

DOWN

1 "Hustle!"
2 Geffen School of Medicine locale
3 Stuff
4 Lines at the store
5 They may be back
6 Far from flowery
7 Gwyneth Paltrow, at college
8 Its concepts include novelty and utility
9 Website with an Odd News page
10 Wand holder
11 Pre-fight announcement
12 Dairy product
13 Word with wide or wild
15 Came off as
21 Con's litany
23 Newborn on the first TV Guide cover
25 Base for Commodore Perry
26 Hare hunter
27 Needle point
29 Grp. established by the Treaty of Rome in 1957
31 Tears up
33 As it should be
34 All-clear signal
35 Almost up
37 __ sequence
38 Part of a ringmaster's outfit
40 Overhauled
43 Oil __
44 Marathon's area
45 Sympathetic
46 Honorary Chairman of the USO
48 Chilling
49 Loser to Happy Feet at the 2007 Oscars
51 Major function
52 The Cookie Never Crumbles author
53 Collared one
55 Alarm sound?
57 Trendy



Left Techdoku

Solution, page 11

21+			200x		12x
		2			
48x		6x		2x	
	15x		72x		2
2		5		7+	
24x				30x	

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.

Right Techdoku

Solution, page 11

9+		12x	30x		1
1			12x		11+
6x			60x		
120x		18x			8x
	120x		1–		
5				6x	

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.

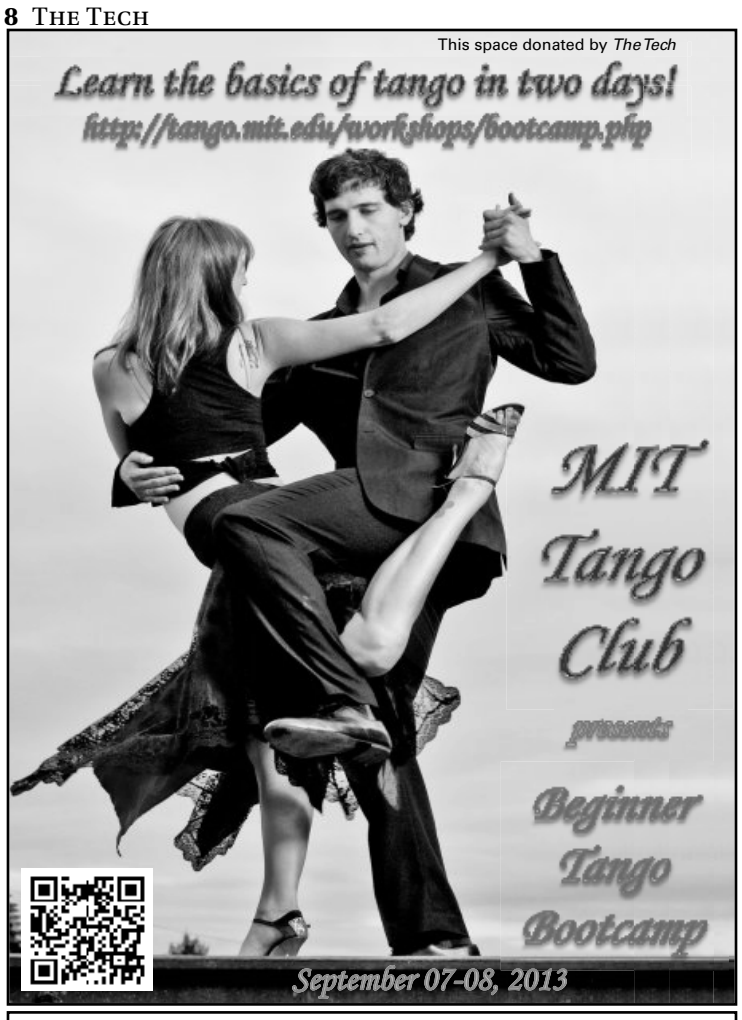
Sumo Techdoku

Solution, page11

54x			34+			252x		7
10+	14+					6		2+
	7+			280x				
448x		288x			108x		5x	
	2		23+				360x	
	28+		4		4x	6–		18x
35x			105x				2	
	3+		45x		21+			
18x		7		144x				4

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.

This space donated by *The Tech*



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

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

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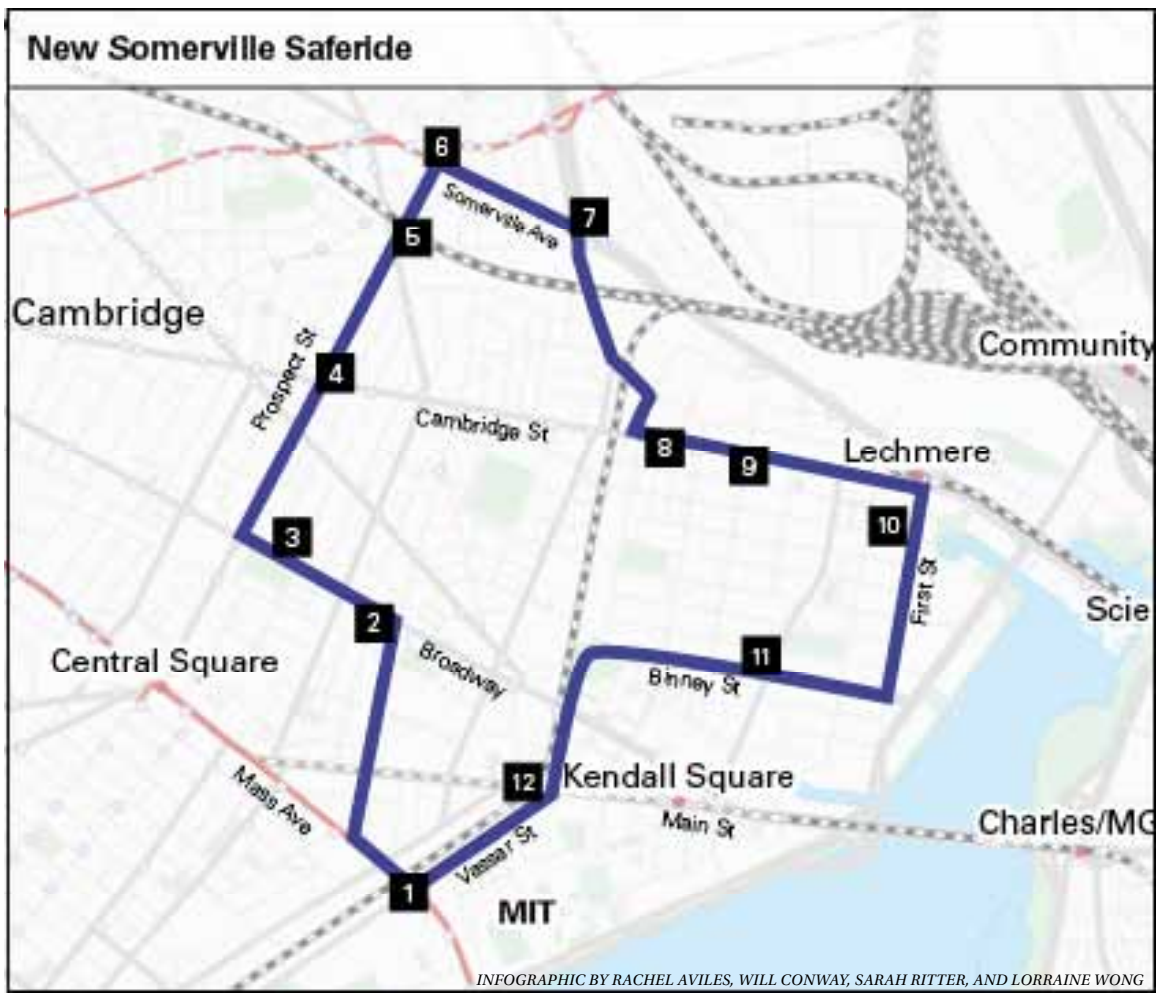
New SafeRide route, Simmons shuttle stop locations changed

Shuttles, from Page 1

to the hall's main entrance, the Division of Student Life announced in a document online.

The change is a consequence of the Dorm Security Program, recently implemented at five dorms including Simmons. The program requires residents to "enter through the main doors" of the building, according to the DSL's Dorm Security Program FAQ page released in July 2013.

"The door [on the West side of the building] is now exit only," explained Simmons resident Maddy B. Aby '15. The bus stop change is a good idea in light of the new security procedures, said Aby, but she would prefer to be able to enter the building from the West as before. Jarrod W. Smith '16, also a Simmons resident, doesn't mind the bus stop move but hopes to be able to enter through the back doors of the building "once [the new security system] is all up and running."



INFOGRAPHIC BY RACHEL AVILES, WILL CONWAY, SARAH RITTER, AND LORRAINE WONG

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China debates effect on law of Bo Xiliai's trial

State media organizations tout trial as an example of Chinese judicial transparency

By Edward Wong
THE NEW YORK TIMES

BEIJING — The melodramatic trial of Bo Xilai, the former elite Communist Party official, has been trumpeted by the state media here as a sure sign that Chinese citizens enjoy the benefits of a robust legal system.

On Monday, The Study Times, a weekly party journal, published a commentary titled "A Look at Judicial Openness Through the Bo Trial" that was typical of the line taken by other state media organizations. It argued that the transparency and process of the five-day trial "displayed China's confidence: the confidence of the rule of law; confidence of the facts; confidence of the ability to distinguish right from wrong."

Few legal and political analysts would make such grand assertions. But there is a debate in China over whether the trial, in which Bo was charged with bribetaking, embezzlement and abuse of power, has contributed to any progress in establishing an independent judiciary with due process in this country, where the party rules the courts, or whether it amounted to little more than political theater.

Perhaps the clearest sign that the trial was a show — if a spectacular one, with salacious testimony about a love triangle, a multimillion-dollar French vacation villa and a private jet to Tanzania — came in the form of relentless headlines and articles in the official media that condemned Bo even as the trial was still unfolding.

Most Chinese followed the trial through this coverage, and they saw headlines like this one on the website of People's Daily, the party mouthpiece: "Prosecutors: Bo Xilai Pleads Not Guilty, So He Must Be Strictly Punished."

The party also kept the charges confined mostly to financial transgressions from early in Bo's career and did not address the well-known human rights abuses from his recent stint as party chief of Chongqing, because that would have touched on party politics. And political analysts and party insiders say a guilty verdict for Bo has almost certainly been predetermined.

But some liberal legal scholars have praised the relative transparency of the trial, because party leaders unexpectedly allowed many of the edited court transcripts to be posted on a running court microblog even if crucial testimony that implicated other leaders was kept secret.

"It was open, and the defendant's rights were well protected," said Zhang Qianfan, a law professor at Peking University. Another scholar, Tong Zhiwei, said: "The Bo trial was more open than any other corruption trial of high-ranking officials in China."

The trial could impress on some Chinese the importance of legal procedures, analysts said. Viewed purely through that prism, the trial was an extraordinary one: Several important witnesses for the prosecution appeared in court, giving Bo the chance to cross-examine them; the judges allowed Bo to state that he wanted to retract a confession he had made under "mental strain"; and the transcripts gave the public a (somewhat blurred) window into the courtroom.

These are all elements missing from most Chinese criminal trials. The length of the trial also came as a surprise to many — previous trials of this nature, including the related ones last year of Bo's wife, Gu Kailai, and the former police chief of Chongqing, Wang Lijun, lasted just one to two days. Gu was convicted of the murder of a British businessman, and Wang of defection and other crimes.

Even legal scholars who applauded the new style evident in Bo's trial recognize that it was an exception and not necessarily a model. Given Bo's popularity among ordinary Chinese, which he bolstered by pushing neo-socialist policies in Chongqing and his revolutionary family's standing within the party, leaders no doubt felt compelled to allow Bo his say, within narrow parameters.

The trial could, in theory, win over skeptics who were convinced the purging of Bo last year was the result of political rivalries. Allowing the public to see Bo cross-examining witnesses added legitimacy to the trial, and the more impassioned his arguments became, the more the public would believe he had been given a sufficient platform.

That seemed to be the calculation, at least, but many of Bo's supporters, especially residents of Chongqing, in southwest China, remain unconvinced.

"We all agree that he is the victim of a political power struggle, that his fall had absolutely nothing to do with a paltry 20 million renminbi," said Li Meishu, a young elementary school music teacher in Chongqing, referring roughly to the amount in bribes that Bo and his family are accused of taking.

Many others have echoed Li's sentiments. Party leaders had obviously hoped that ordinary Chinese had become so upset at endemic corruption that attaching a $3.5 million figure to the bribes Bo was accused of taking would be enough to tar him. But corruption has become so widespread that many Chinese see the figure as a hypocritical cover for a political purge.

Legal scholars say it is unlikely that the Bo trial will be replicated wholesale across the justice system, even if the party leader, Xi Jinping, has pledged to bring down "tigers and flies" in an anti-corruption drive. Since the investigation into Bo, there have been notable inquiries into other so-called tigers accused of corruption, including Jiang Jiemin, the Central Committee member close to Zhou Yongkang, the former security chief and ally of Bo. But none of those figures have a grip on the public imagination like Bo does, and their cases, if they went to trial, would not necessarily demand as many trappings of legal legitimacy.

Likewise, there is little in the way of due process to be seen in the recent clampdown on free speech, which includes detentions of liberal Chinese citizens.

Bo was given leeway to speak in court, but there were obvious limits. He commented only on his family's lifestyle and finances. The public transcripts did not show him raising questions about the political infighting that many say led to his downfall.

"Bo Xilai served the party very well in the trial," Chongyi Feng, an associate professor of China studies at the University of Technology, Sydney, said in an email. "He demonstrated the progress of the rule of law in China with his rigorous defense. He also toed the bottom line and protected the party by not revealing any scandals of his former Politburo colleagues. Understandably the verdict negotiated before the trial will be released in due course, irrespective of the court procedures."

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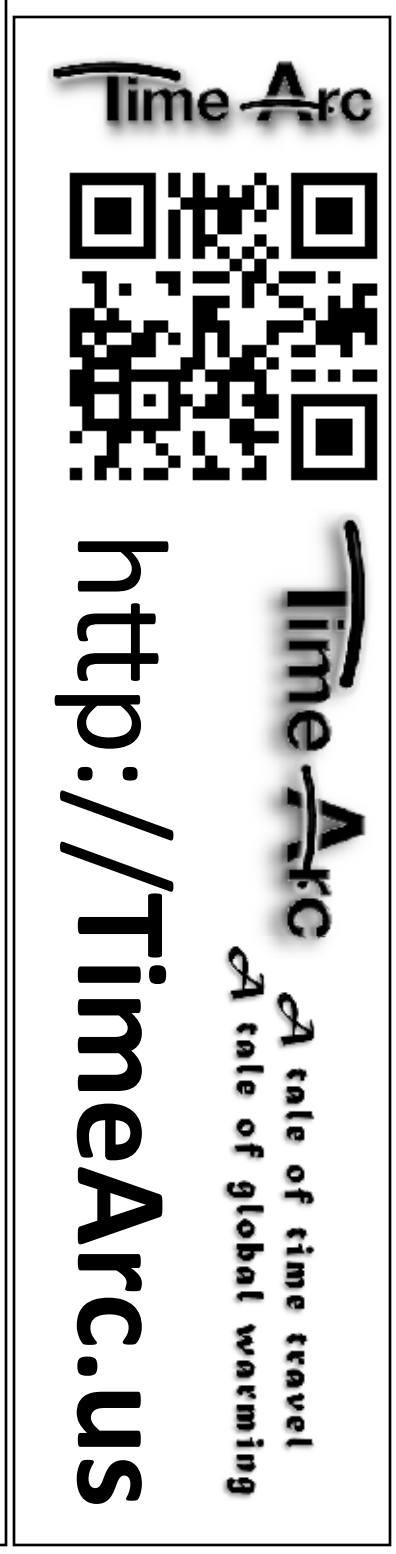


Japan nuclear plant leak worries worsen

Contamination crisis continues at nuclear plant hit by 2011 tsunami

By Martin Fackler
THE NEW YORK TIMES

TOKYO — A crisis over contaminated water at Japan's stricken nuclear plant worsened Saturday when the plant's operator said it detected high radiation levels near storage tanks, a finding that raised the possibility of additional leaks.

> **About 430,000 tons of contaminated water, or enough to fill 170 Olympic-size pools, are stored in rows of tanks. Space may be running out.**

The operator, Tokyo Electric Power Company, or TEPCO, said it found the high levels of radiation at four separate spots on the ground near some of the hundreds of tanks used to store toxic water produced by makeshift efforts to cool the Fukushima Daiichi plant's three damaged reactors. The highest reading was 1,800 millisieverts per hour, or enough to give a lethal dose in about four hours, TEPCO said.

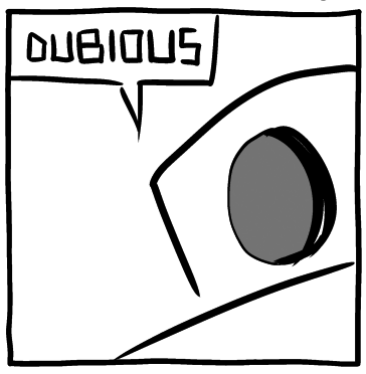
The contaminated spots were found as TEPCO employees checked the integrity of the tanks following a leak two weeks ago that released 300 tons of toxic water into the Pacific. That leak prompted Prime Minister Shinzo Abe to announce that the government would step in to help get the plant under control, amid rising public fears of a second environmental disaster at the plant crippled two years ago by a huge earthquake and tsunami.

Saturday's discoveries suggested that there may have been other leaks from the tanks, many of which appear to have been shoddily built as TEPCO has scrambled to find enough storage space for the contaminated water being produced by the plant. However, TEPCO said that it had found no evidence of fallen water levels in nearby tanks, making it unclear how much water, if any, may have leaked out, and whether any reached the Pacific, about 1,500 feet away.

About 430,000 tons of contaminated water, or enough to fill 170 Olympic-size pools, are stored in rows of tanks at the plant, which appears to be running out of open space to put them all. The contaminated water increases by 400 tons every day as groundwater flows into the basements of the damaged buildings housing the three ruined reactors, which melted down in the worst nuclear accident since Chernobyl in 1986.

TEPCO must draw off that water to prevent it from overwhelming jury-rigged cooling systems that keep the reactors' melted cores from reheating and melting into the ground in a phenomenon known as the China syndrome. TEPCO has struggled to safely handle and store all the water.

SMBC, from Page 5



Solution to Crossword

from page 6

A	U	G	U	S	T	A		P	U	M	I	C	E
S	C	E	P	T	E	R	S		A	P	A	T	H	Y
A	L	A	C	A	R	T	E		T	I	S	S	U	E
P	A	R		I	S	M	E	N	E		C	O	R	D
			D	R	E	A	M	O	N		A	N	N	
E	L	W	E	S		J	E	S	T	E	R			
R	Y	E	S		G	O	D		L	E	A	D	I	N
I	N	S	I	D	E	R		J	A	C	C	U	S	E
E	X	T	A	N	T		R	O	W		A	L	E	X
			R	A	S	P	E	D		A	S	Y	E	T
	H	O	N		M	A	C	H	E	T	E			
C	U	B	A		I	N	A	P	E	T		G	A	P
A	M	A	Z	E	S		S	U	R	I	N	A	M	E
R	A	M	J	E	T		T	R	I	C	O	L	O	R
S	N	A	R	K	Y			S	E	A	W	A	S	P

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E52 construction will affect Memorial traffic

Longfellow changes will also have impact

E52, from Page 1

way access after the end of the project.

Pedestrians will be rerouted onto a new sidewalk on the grass next to Memorial drive. No pedestrians will be allowed to pass through the E52 construction area during renovations.

Drivers should be aware of the impact of Longfellow construction.

All parking lots in the surrounding area will remain open except the Hermann garage, and the only street parking closed will be the drop-off lane in front of E52.

According to DiFava's email, drivers in the area should also be aware of the impact of the changes to traffic in the area caused by construction on the Longfellow Bridge. The construction began in July and will continue until September 2014. Traffic going into Boston via the bridge is limited to one lane, while all traffic into Cambridge is diverted. Emergency vehicles, bicycles, and the MBTA Red Line will all retain access to the bridge throughout the construction.

Updates on E52 construction can be found at *http://mit.edu/facilities/construction/updates.shtml.*

Don't guess whether you qualify for the EITC. Know.

There's a lot to know about qualifying for the Earned Income Tax Credit (EITC). You need to work and earn less than $34,692. If you have children, they must meet three qualifying tests. And that's just to name a few. But the most important thing to know is you can get help figuring it all out. Visit us on the web, call 1-800-TAX-1040 or ask your tax preparer. When it comes to getting help claiming everything you honestly deserve, consider it done.

1.800.TAX.1040

Internal Revenue Service
www.irs.gov/eitc

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Solution to Sudoku

from page 5

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

Solution to Techdoku

from page 5

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

Solution to Right Techdoku

from page 7

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

Solution to Left Techdoku

from page 7

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

Solution to Sumo Techdoku

from page 7

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

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Attack leads to peek inside Viagra spam enterprise

Network of computers infected by Russian virus once generated a third of global spam

By Andrew E. Kramer
THE NEW YORK TIMES

MOSCOW — For years, Igor A. Artimovich had been living in a three-room apartment he shared with his wife in St. Petersburg, sitting for long hours in front of his Lenovo laptop in his pajamas, drinking sugary coffee.

If he were known at all to Western security analysts who track the origins of spam, and in particular the ubiquitous subset of spam emails that promote male sexual enhancement products, it was only by the handle he used in Russian chat rooms, Engel.

His pleasant existence, living in obscurity, changed this summer when a court in Moscow linked Artimovich and three others with one of the world's most prolific spambots, or illegal networks of virus-infected computers that send spam.

The ruling provided a peek into the shrouded world of the Viagra-spam industry, a multimillion-dollar illegal enterprise with tentacles stretching from Russia to India. Around the world every day, millions of people open their email inboxes to find invitations to buy Viagra or some other drug, potion or device to enhance sexual performance.

Around the world every day, millions of people open their email inboxes to find invitations to buy Viagra or some other drug or device to enhance sexual performance.

Who sends these notes and how they make money had remained a mystery to most recipients. The court put names and faces to a shadowy global network of infected computers known outside Russia as Festi and inside the country as Topol-Mailer, named after an intercontinental ballistic missile, the Topol-M. It was powerful enough to generate, at times, up to a third of all spam email messages circulating globally.

Prosecutors say Artimovich was one of two principal programmers who controlled the network of infected computers in a group that included a former signals intelligence officer in the Federal Security Service, or FSB, the successor agency to the KGB.

Once they control the virus-infected computers, they are able to use software embedded on home and business computers to send persistent emails. The owner of an infected computer usually never knows the PC has been compromised.

More often than not these days, those infected computers are in India, Brazil and other developing countries where users cannot afford virus protection. But the high-end programming of viruses often takes place in Russia.

While the business model has been well understood — it was the subject of an extensive study by the University of California, San Diego — the individuals behind one of the largest spam gangs using it have largely avoided official scrutiny, until recently.

The Tushino Court in Moscow convicted two people of designing and controlling the Festi botnet, and two others of paying for its services, but none of them specifically of distributing spam. Instead, the court convicted the group of using the Festi network in 2010 to turn thousands of browsers simultaneously to the webpage of the online payment system of Aeroflot, the Russian national airline, crashing it in what is known as a distributed denial of service attack.

The spambot problem has vexed Western law enforcement officials, who complain that the Russians ignore losses to global businesses that pay about $6 billion annually for spam filters, and to companies like Pfizer for sales lost to counterfeit pills.

Computer security experts have long been intrigued by the possibility that the Russian government has turned to so-called black hat hackers for political tasks in exchange offering protection from prosecution. But any direct evidence has been lacking, though the Festi case adds to the circumstantial evidence.

Russian authorities deny creating or turning a blind eye to botnets used to attack the websites of dissidents, or banks and government institutions in neighboring countries like Estonia or Georgia.

Valery V. Yaschenko, a deputy director of the Kremlin-linked Institute for Problems of Information Security, said the Russian government "condemns the practice of using strangers" computers for attacks, or for any reason.

For years, spam has been a very good business for Russian criminal gangs. An estimated $60 million a year is pulled in through these networks. Despite the Russian prosecutors' victory this sum-

Spam, Page 14

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EVENTS SEPT. 02 – SEPT. 08

TUESDAY

(11:00 a.m. – 4:00 p.m.) Wonder Woman Photo Shoot — Lobby 10

(1:00 p.m. – 4:00 p.m.) Trash2Treasure sale, free Reuse items — Kresge Oval

WEDNESDAY

(11:00 a.m. – 2:30 p.m.) MIT police laptop tagging and registration — 32 (Stata Student St.)

THURSDAY

(12:00 p.m. – 2:00 p.m.) Tour de SHASS, free lunch — 10-105 (Bush Room)

(8:00 p.m. – 10:30 p.m.) The Musical Theatre Guild presents *AVENUE Q* — W16-035 (Kresge Little Theatre)

FRIDAY

(9:00 p.m. – 11:00 p.m.) Sidney Pacific Orientation Dance Party. Featuring DJ BIG from WPOT Hot 97 Boston radio station — NW-86

SATURDAY

(7:00 p.m. – 9:00 p.m.) MITMASA welcoming dinner, with Malaysian food — W20 (PDR 1 and 2)

SUNDAY

(11:00 a.m. – 1:00 p.m.) Student Loan Art Program Exhibition public brunch/reception — E15

MONDAY

(12:00p.m. – 1:00 p.m.) Electricity Student Research Group interdisciplinary research lunch series on sustainable electricity — E19-319

(4:00 p.m. – 5:30 p.m.) The Economic Effects of Combat Exposure, with speaker Michael Yankovich — E51-151

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Police log

The following incidents were reported to the MIT Police in August.

Aug. 1: Building 46 (46 Vassar St.), 11:10 a.m. Report of stolen motorcycle.

Aug. 1: Building W20 (84 Mass. Ave.), 1:53 p.m. Male in LaVerde's acting strangely is issued trespass warning.

Aug. 1: Building E18 (50 Ames St.), 3:53 p.m. Report of suspicious activity: person going through taped boxes.

Aug. 2: Building E23 (25 Carlton St.), 10:35 a.m. Report of stolen wallet and iPad.

Aug. 4: PBE (400 Memorial Dr.), 9:05 a.m. Contractor reports vandalism at work site.

Aug. 4: 290 Albany Lot, 9:21 p.m. Vehicles driving erratically in parking lot behind Simmons Hall. Units respond; motor vehicle towed from lot.

Aug. 5: Building E62 (100 Main St.), 5:56 p.m. Report of stolen wallet.

Aug. 5: PSK (487 Commonwealth Ave.), 7:04 p.m. Report of bicycle stolen in June.

Aug. 6: Residence on east side of campus, 8:17 a.m. Detective receives report of forcible fondling in 2012.

Aug. 7: Building W89 (291 Vassar St.), 9:39 a.m. Suspicious mailed package brought to police station.

Aug. 9: Building E62 (100 Main St.), 12:35 p.m. Report of stolen wallet.

Aug. 9: Off campus, 3:32 p.m. Student reports that a female tricked him into taking bad checks on two occasions.

Aug. 10: West Garage (125 Vassar St.), 2:52 p.m. Report of stolen motorcycle helmet.

Aug. 11: Hayward Lot (2 Hayward St.), 11:27 a.m. Attempted robbery: person attempts to take cellphone from female's hand and then flees empty-handed.

Aug. 11: Building E52 (50 Memorial Dr.), 11:45 a.m. Homeless person is issued trespass warning.

Aug. 11: DKE (403 Memorial Dr.), 12:43 p.m. Report of stolen bicycle.

Aug. 11: Building W16 (48 Mass. Ave.), 1:28 p.m. Report of stolen wallet.

Aug. 11: Mass. Ave. & Albany St, 9:30 p.m. Street robbery: suspect asks victim if he has any money. When the victim refuses to turn over money, the suspect pulls out a small stick or club and goes through the victim's pockets. The suspect is described as a white male, around 60 years of age, 5'10", medium build, white hair and mustache, wearing a blue shirt or jacket and black pants.

Aug. 12: Off campus, 10:09 a.m. Report of stolen pocketbook with MIT ID.

Aug. 12: Building 7 (77 Mass. Ave.), 4:32 p.m. MBTA bus driver requests assistance removing a person on the bus. Anware Belle (19) is arrested for trespassing.

Aug. 13: Building W89 (291 Vassar St.), 6:32 a.m. Report that a package delivered to Stata shipping office is stolen. The package is later returned.

Aug. 13: Building E19 (400 Main St.), 12:01 p.m. Report of trespasser; units respond.

Aug. 13: Building 2 (182 Memorial Dr.), 1:24 p.m. Report of stolen iPad.

Aug. 13: 450 Beacon St., 8:09 p.m. Report of a male videotaping a showering female. Arinze C. Okeke '16 arrested and charged with secret video surveillance.

Aug. 14: Building 11 (77 Mass. Ave. rear), 8:37 a.m. Report of a strange voicemail left by an unknown person.

Aug. 14: Building 50 (142 Memorial Dr.), 9:43 a.m. Female reports that she gave her phone number to a male, who is now texting her.

Aug. 14: Buidling W35 (100 Vassar St.), 10:23 a.m. Report of stolen wallet.

Aug. 14: Building NW35 (235 Albany St.), 4:07 p.m. Report of clothing stolen from laundry room.

Aug. 15: Building W56 (169 Vassar St.), 11:26 a.m. Report of stolen power tools.

Aug. 15: Building 7 (77 Mass. Ave.), 1:09 p.m. Report of stolen bike. Responding officer is unable to find the reporting party, who said she would be in the library.

Aug. 15: Building W89 (291 Vassar St.), 1:30 p.m. Person reports that his wallet was stolen and that his credit cards are being used fraudulently.

Aug. 15: 28 Fenway, 6:44 p.m. Report of stolen laptop.

Aug. 15: 28 Fenway, 6:55 p.m. Report of stolen laptop.

Aug. 15: Building 35 (100 Vassar St.), 7:53 p.m. Report of stolen backpack.

Aug. 16: Building W89 (291 Vassar St.), 4:14 p.m. Report of lost MIT ID.

Aug. 16: Building 66 (25 Ames St.), 8:05 p.m. Report of stolen unregistered bicycle, which was locked with a cable.

Aug. 17: NU (460 Beacon St.), 3:41 a.m. Report that students are making a lot of noise. The area is quiet when units arrive.

Aug. 17: Building 46 (46 Vassar St.), 12:34 p.m. Report of stolen unregistered bicycle, which was locked with a cable.

Aug. 17: Building 26 (60 Vassar St.), 7:54 p.m. Report of stolen unregistered bicycle, which was locked with a cable.

Aug. 18: Building 9 (105 Mass. Ave.), 11:15 a.m. Report of stolen unregistered bicycle, which was locked with a cable.

Aug. 19: 219 Vassar St, 8:48 a.m. Caller reports that there is a black duffel bag on the sidewalk next to a cone. The bag was unattended for some time. The Cambridge PD found that the bag was a sleeping bag.

Aug. 20: Building 16 (21 Ames St.), 12:35 a.m. Report of male sleeping in lounge. Homeless man issued tresspass warning.

Aug. 20: Wadsworth St., 8:48 p.m. Person unsteady on his feet is stopped and transported to a hospital.

Aug. 21: Building E23 (25 Carlton St.), 8:32 a.m. Anonymous report of sexual assault; date and location not given.

Aug. 21: Building 1 (33 Mass. Ave.), 9:26 p.m. An area of the building is flooded; Facilities is notified.

Aug. 22: Carlton St., 11:08 a.m. Report of stolen bicycle.

Aug. 22: Building 84 (550 Memorial Dr.), 11:28 a.m. Report of jewelry stolen from closed room.

Aug. 22: Albany Lot, 11:56 a.m., Report of stolen generator.

Aug. 22: Building E62 (100 Main St.), 12:31 p.m. Report of stolen wallet and passport.

Aug. 23: Building 68 (31 Ames St.), 9:02 a.m. Report of lost MIT ID.

Aug. 23: Building 51 (410 Memorial Dr.), 10:13 p.m. Report of stolen laptop.

Aug. 24: Building W16 (48 Mass. Ave.), 2:13 p.m. False fire alarm.

Aug. 25: Building W4 (320 Memorial Dr.), 10:32 a.m. Report of suspicious male in McCormick. He was actually looking for his brother in another dorm.

Aug. 26: Building 32 (32 Vassar St.), 1:38 a.m. Report of a group of males stealing signs. They are stopped.

Aug. 27: Building W89 (291 Vassar St.), 2:42 p.m. Report of stolen bicycle, which was locked with a cable.

Aug. 27: Memorial Dr., 6:06 p.m. Accident involving MIT Housing vehicle and a motorcycle. No injuries.

Russian botnet used for DDoS attacks

Criminals make an estimated $60 million yearly from spam networks

Spam, from Page 12

mer, similar networks remain active as tools for fraud and hacker attacks. Computer security experts say that suggests either the wrong men were convicted or the controlling codes were passed to somebody else.

Stefan Savage, a professor in the systems and networking group at the University of California, San Diego, studied the Festi scheme, in part by making test purchases.

About 70 percent of all email sent globally is still spam, according to Symantec. Most of it violates a number of American laws, including the CAN-SPAM Act of 2003.

The spam opened links to sites called "Canada Pharmacy" or "Canadian Pharmacy," though they were in fact Russian-based companies that had privileges to process online payments from Visa through banks in Azerbaijan and Iceland. The sales were responsible for about a fifth of the $300 million global industry of selling fake drugs online, mostly to Americans, Savage said in an interview.

What arrived in the mail was Viagra counterfeited in India, where intellectual property rights on pharmaceutical industry products are loosely enforced. Savage tested the pills in a gas spectrometer; they were close enough chemically to real Viagra that they most likely functioned safely, and as intended, for tens of thousands of American men.

The Internet has experienced the ill effects. About 70 percent of all email sent globally is still spam, according to Symantec, the antivirus company. Most of it violates a number of American laws, including the CAN-SPAM Act of 2003, which requires unsolicited emails to have a valid return address. The Ryan Haight Online Pharmacy Consumer Protection Act of 2008, named for a teenager who died from an overdose of Vicodin bought on the Internet, outlaws online sales of drugs without a doctor's prescription. But there are still plenty of offers coming from abroad.

For a three-month period last year, the Festi botnet was bursting with activity. It generated about a third of all global spam for those months, Paul Wood, the cybersecurity intelligence manager at Symantec, said in an interview.

Why Russian authorities allowed Festi to function for years is unclear. Russians had little incentive to invest law enforcement resources in a crime that primarily affected Americans. But the illegal computer networks like Festi that are so useful for sending spam are also capable of crashing websites by flooding them with an overwhelming numbers of visits — the distributed denial of service attacks.

It was used last year inside Russia to crash opposition websites during the presidential election. The Festi network was the tool of choice in a prominent denial of service attack on LiveJournal, one of the blog-hosting services used by Russian dissident and blogger Alexei Navalny, according to Hacker, a Russian magazine focused on cybersecurity issues.

In one of the few crackdowns, the Russian court case singled out four men: Pavel Vrublevsky, the owner of an online payment settlement business called ChronoPay, who for years has denied accusations of ties to Viagra spam schemes; Maxim Permakov, an employee of Vrublevsky and a former FSB agent; Igor Artimovich, a former employee of Sun Microsystems in Russia; and his brother Dmitry Artimovich, a freelance programmer.

The Festi botnet generated about a third of global spam for months.

All denied the charges and have said through their lawyers that they intend to appeal the sentences, which range from two to 2 1/2 years in prison, except for Permakov, who conceded his role in using Festi and cooperated with investigators in exchange for a suspended sentence.

Prosecutors argued that Igor Artimovich designed Festi. They say the executives at ChronoPay hired him to crash the Aeroflot site because they were angry at losing a tender for Aeroflot's business.

The police say the executives asked Artimovich to settle the score. Analysts of Russian cybercrime say a line had been crossed by attacking a Russian site.

In an interview before his sentencing, Artimovich said he was working on code under contract with ChronoPay, but for an antivirus program, not a virus. He said the police planted evidence on his laptop hard drive after his arrest.

Vrublevsky, in an interview, denied any role in creating Festi and noted that in court a witness testified that the FSB, which investigated the case, had forged evidence.

Festi was not the first Russian botnet to combine pharmaceutical spam with politics. In 2007, a large-scale cyberattack was begun on Estonia, taking aim at sites of government agencies, banks and anti-Russian groups, and a futuristic North Atlantic Treaty Organization center for cyberwarfare was built in Tallinn in response. But when the center's analysis of this attack and subsequent cyberstrikes on Georgia finally wrapped up, evidence pointed not to some similar, hushed bunker of military men somewhere in Russia, but to a server in St. Petersburg best known for its links to cybercrime, including penis-enlargement spam, and run by a hacker nicknamed Flyman.

The 2009 NATO report on the attacks on Russia's neighbors noted pointedly of the St. Petersburg server's suspicious activity that "the Russian authorities have remained remarkably passive in prosecuting the organization."

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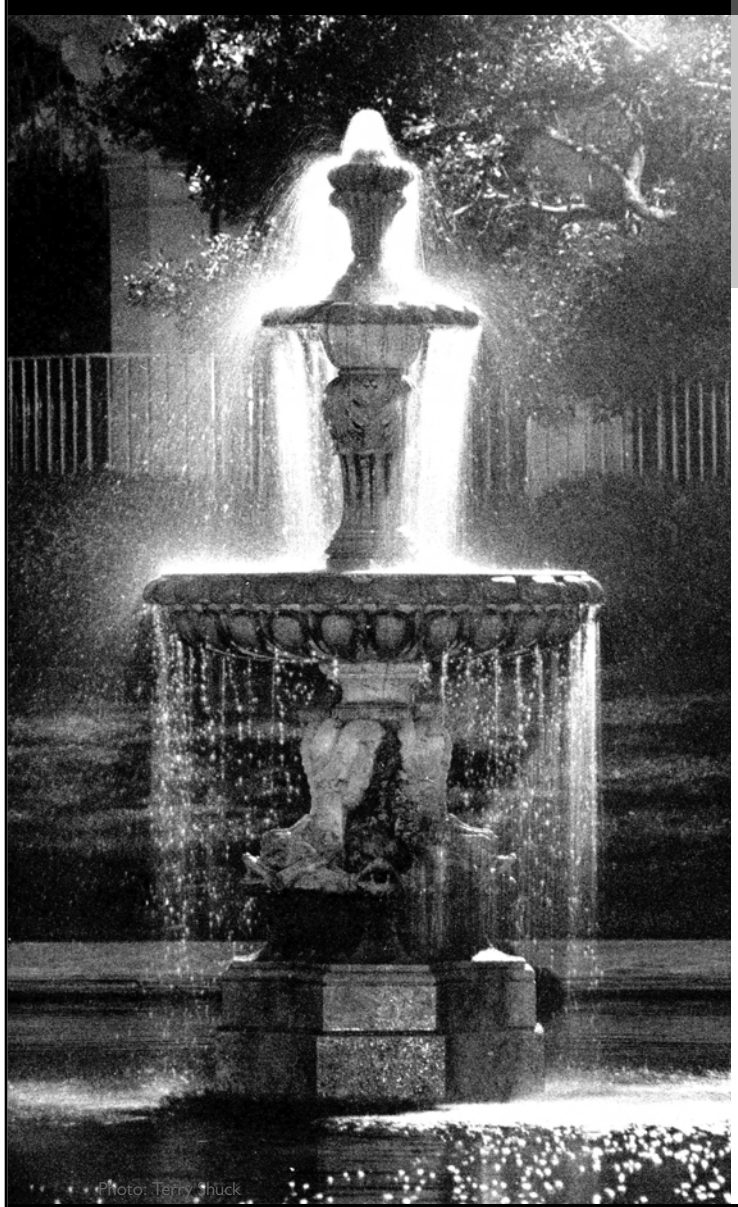
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SPORTS

Patriots release Aaron Hernandez from team

QB Tim Tebow was also released last week

By Judy Hsiang
STAFF WRITER

The NFL pre-season is usually a time to test new players and to hash out a roster for the regular season. This year's NFL pre-season produced two notable changes to the New England Patriots' roster, the release of Tim Tebow and Aaron Hernandez (along with the associated controversy).

> **Tebow was brought on to potentially fill a third string position.**

Signed to the Patriots on June 10, 2013, Tebow was a low-risk pick for the Patriots. Tom Brady and Ryan Mallett have been solidified as the first and second string quarterbacks, respectively, for the Patriots and Tebow was brought on to potentially fill a third string position. Tebow, a former Heisman Trophy winner, showed promise early in his NFL career, most notably when he led the Denver Broncos to a post-season victory over the Pittsburgh Steelers in 2012. Tebow was traded to the Jets on March 21, 2012 and subsequently released after an uneventful season on April 23, 2013.

Bill Belichick, head coach of the Patriots, signed Tebow with no concrete plans for him on the Patriots roster. After watching Tebow's underwhelming performance over three pre-season games, Belichick chose to release Tebow on Aug. 31, the same day NFL teams were required to trim their rosters to 53 players.

The story surrounding Hernandez's release started early this summer, when his North Attleboro home was searched by Massachusetts State Police in connection with the death of Odin Lloyd. Lloyd's body was found shot and killed in an industrial park approximately one mile from Hernandez's home on June 17, 2013. Hernandez made national headlines again on June 26, when he was taken into police custody as the lead suspect in Lloyd's death.

Merely 90 minutes after his arrest, the Patriots released a statement that formally released Hernandez from the New England Patriots franchise. Later that same day, the charges against Hernandez were disclosed to be first-degree murder and five weapons charges. Hernandez was indicted on August 22 by a grand jury for the murder Odin Lloyd.

MIT women's soccer falls to Brandeis, 1-0

Next game is against Simmons College

By Charlotte Brackett
DAPER STAFF

At the first game of the 2013 season, the MIT women's soccer team fell to Brandeis University on the road on Friday evening with a score of 1-0. The Engineers, who were recently ranked #15 in the nation in the NSCAA Division III preseason rankings, have faced the Judges in their season-opening game for 10 of the past 11 years.

> **Tech raised the intensity immediately upon returning to the field for the second half.**

Within the first ten minutes of the start of the game, Brandeis took three shots at MIT's goal, two of which were saved by goalkeeper Lauren Ullmann '17. Just under the 21 minute mark, the Judges' Dara Spital shot from 25 yards out, sneaking the ball past Ullmann and burying it into the back of the net.

The Engineers were outshot 8-4 during the first period. Of the four shots that MIT took, three of them had to be saved by goalie Michelle Savuto. Priyanka Gaur '16 led the way with two shots on goal, both of which were blocked by Savuto.

Tech raised the intensity immediately upon returning to the field for the second half, taking five consecutive shots on the opposing goal within three minutes of play. Michaelann Rodriguez '14 fired two back-to-back shots at the net, being thwarted both times by the keeper. Rachel Dias Carlson '14, Ambika G. Krishnamachar '15 and Morgan K. Moroi '16 all took a turn at the net, each time being turned away by Savuto.

MIT allowed only two shots on net during the entire second half, of which only one had to be saved by Ullmann. On the other side of the field, the Engineers took 11 shots, forcing Savuto out of the net five times. Although MIT threatened the Judges with a handful of close calls, the second period ended with a Brandeis victory.

Gaur, Dias Carlson and Krishnamachar each took three shots at the goal throughout the game. Rodriguez shot twice, while Moroi, OBrian, Michelle Battipaglia '15 and Victoria Gregory '17 shot once each. In her collegiate debut, Ullmann spent all 90 minutes in the net, making a total of six saves.

MIT returns to action on Sunday, Sept. 1 when it travels down the road to face Simmons College at 12:00 p.m.

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